# ASBESTOS INSPECTION REPORT
# For Demolition

**APEC Sampling Reference**: Building #1
**Housing Authority Reference:** Building 14-E

**Units:**
2615 - A
2617 - B
2619 - C
2621 - D
2625 - E

Prepared for:
Pueblo Housing Authority

Report by:

**Date(s) of Inspection: 09/24/2021**
**Date(s) of Report: 11/3/2021**

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

## I. Introduction

On September 21, 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 5 units, and is approximately 4,140 $ft^2$. 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 |
|---|---|---|
| **September 21, 2021** | **Robert Sais** | **23993/April 26, 2022** |
| | **Joey Cardenas** | **24591/June 10, 2022** |

## II. Homogeneous Sampling Areas; Notes; and Observations

### *A. Homogeneous Areas Sampled –11 Total (See Appendix 3)*

| ***Homogenous ID*** | ***Material*** | ***Quantity (total for building)*** |
|---|---|---|
| 1 | Roll textured Plaster | *3,744*$ft^2$ |
| 2 | Roll textured Drywall | *3,344*$ft^2$ |
| 3 | Smooth Plaster | *3,744*$ft^2$ |
| **4** | **Texture on Concrete** | ***2,050*$ft^2$** |
| 5 | Cove Base/Mastic | *782*$ft^2$ |
| **6** | **12x12 VCT Floor tile/Mastic** | ***4,140*$ft^2$** |
| 7 | Window Caulking | *25*$ft^2$ |
| 8 | Stair Runner/Mastic | *144*$ft^2$ |
| **9** | **TSI Heat Board** | ***225*$ft^2$** |
| 10 | Brick/Mortar | *3,744*$ft^2$ |
| 11 | Rock wool insulation | *2,300*$ft^2$ |
| **12** | **Exterior Sealant** | **90ft2** |

**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 5 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 thirty-six (136) bulk samples were collected at the Subject Property and identified on the Chain of Custody (Appendix 7). The lab separated the 136 samples submitted, into additional layers; there were 398 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 Texture on Concrete (4A-4C) observed on the Lower level ceiling of Unit A is confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-15-4A-Tan Texture w/beige Paint is 2% Chrysotile (Point Count-1.50%)***
- ***PHA-15-4B-Tan Texture W/Beige Paint is 2% Chrysotile (Positive Stop)***
- ***PHA-15-4C-Tan texture W/beige Paint is 2% Chrysotile (Positive Stop)***

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

The Cove Base/Mastic (5A & 5B) observed on the Walls of Unit A are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-15-5A-Tan texture W/Beige Paint is 2% Chrysotile (Insufficient Material to point Count)***
- ***PHA-15-5B- Tan Texture W/Beige Paint is 2% Chrysotile (Insufficient Material to point Count)***

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

The 12X12 VCT Floor tile (6A & 6B) observed on the Floors of Unit A are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-15-6A-White Floor tile is 2% Chrysotile***
- ***PHA-15-6A-Black Mastic is 8% Chrysotile***
- ***PHA-15-6B-White Floor tile is 2% Chrysotile***
- ***PHA-15-6B-Black Mastic is 8% Chrysotile***

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

The Stair Tread/Mastic (8A,8B & 8Q) observed on the Stairs of Unit A are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-15-8A-Brown Mastic has trace amounts of ACM***
- ***PHA-15-8B-Brown Mastic has trace amounts of ACM***
- ***PHA-15-8Q-Brown Mastic has trace amounts of ACM***

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

The TSI Sheeting (9A-9C) observed on the HVAC system and Registers are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-15-9A-Insulation Wrap is 70% Chrysotile***
- ***PHA-15-9B-Insulation Wrap is 70% Chrysotile***
- ***PHA-15-9C-Insulation Wrap is 70% Chrysotile***

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

***Unit B***

The Roll Textured Drywall (2A-2C) observed on the Lower level walls of Unit B are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-17-2A is Homogenous With Sample 2C***
- ***PHA-17-2B is Homogenous with Sample 2C***
- ***PHA-17-2C-Off-White Texture is 2% Chrysotile (Point Count-1.75%)***

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

The Cove Base (4A & 4B) observed on the walls of Unit B are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-17-4A is Homogenous with sample 4B***
- ***PHA-17-4B- Light Pink Compound w/white paint is 2% Chrysotile (Point Count 1.5%)***

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

The Texture on Concrete (6A-6C) observed on the Lower level Ceiling of Unit B are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-17-6A-Off-White Compound is 3% Chrysotile (Point Count-4%)***
- ***PHA-17-6A-Off White Surfacing Compound with white Paint is 3% Chrysotile (Point Count-1.75%)***
- ***PHA-17-6B-Off White Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-17-6B-Off White Surfacing Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-17-6C-Off-White Compound is 3% Chrysotile (Positive Stop)***
- ***PHA-17-6C-Off-White Surfacing Compound is 3% Chrysotile (Positive Stop)***

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

The 12X12 VCT Floor tile (7A & 7B) observed on the Floors of Unit B are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-17-7A-Off-White/Tan Floor tile is 3% Chrysotile***
- ***PHA-17-7A-Black Mastic is 10% Chrysotile***
- ***PHA-17-7B-Off-White/Tan Floor tile is 2% Chrysotile***
- ***PHA-17-7B-Black Mastic is10% Chrysotile***

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

The TSI Sheeting (11A-11C) observed on the HVAC system and Registers are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-17-11A-Insulation Wrap is 65% Chrysotile***
- ***PHA-17-11B-Insulation Wrap is 65% Chrysotile***
- ***PHA-17-11C-Insulation Wrap is 65% Chrysotile***

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

***Unit C***

The 12X12 VCT Floor tile (4A & 4B) observed on the Floors of Unit C at the Subject Property were confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-19-4A-Off-White/Tan Floor tile is 2% Chrysotile***
- ***PHA-19-4A-Black Mastic is 6% Chrysotile***
- ***PHA-19-4B-Off-White/Tan Floor tile is 2% Chrysotile***
- ***PHA-19-4B-Black Mastic is 5% Chrysotile***

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

The TSI Sheeting observed on the HVAC system and all Registers at the Subject Property were confirmed to be an **ACM** regulated material by Initial PLM method:

- ***Homogenous throughout the entire Subject Property***

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

The Texture on Concrete (7A & 7B) observed on the lower level ceiling of Unit C are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-19-7A-Texture with White paint is 3% Chrysotile (Point Count-1.50%)***
- ***PHA-19-7B-Texture With White Paint 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 D are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-21-4A-Tan Texture is 3% Chrysotile (Point Count-2.50% )***
- ***PHA-21-4B-Tan Texture is 3% Chrysotile (Positive Stop)***
- ***PHA-21-4C-Tan Texture is 3% Chrysotile (Positive Stop)***

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

The 12X12 VCT Floor tile (4A & 4B) observed on the Floors of Unit D are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-21-6A-Off-White tile is 2% Chrysotile***
- ***PHA-21-6A-Black Mastic is 8% Chrysotile***
- ***PHA-21-6B-Off-White tile is 2% Chrysotile***
- ***PHA-21-6B-Black Mastic is 8% Chrysotile***

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

***Unit E***

The Texture on Concrete (6A-6C) observed on the lower level ceiling of Unit E are confirmed to be an **ACM** regulated material by Point Count method:

- ***PHA-23-6A-White Texture with White Paint is 3% Chrysotile (Point Count-1.75%)***
- ***PHA-23-6B-White texture With White Paint is 3% Chrysotile (Positive Stop)***
- ***PHA-23-6C-White Texture with White Paint is 3% Chrysotile (Positive Stop)***

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

The 12X12 VCT Floor tile (7A & 7B) observed on the Floors of Unit E are confirmed to be an **ACM** regulated material by Initial PLM method:

- ***PHA-23-7A-Tan tile is 2% Chrysotile***
- ***PHA-23-7A-Black Mastic is 6% Chrysotile***
- ***PHA-23-7B-Tan tile is 2% Chrysotile***
- ***PHA-23-7B-Black Mastic is 3% Chrysotile***

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

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

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

**Fifty Four (54)** 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-15-4A | Texture on Concrete | 10B | 2% Chrysotile | ~300 SF |
| PHA-15-4B | Texture on Concrete | 11C | 2% Chrysotile | |
| PHA-15-4C | Texture on Concrete | 12B | 2% Chrysotile | |
| PHA-15-5A | Cove Base/Mastic | 13D | 2% Chrysotile | ~96 SF |
| PHA-15-5B | Cove Base/Mastic | 14C | 2% Chrysotile | |
| PHA-15-6A | 12X12 VCT Floor tile/White tile | 15C | 2% Chrysotile | ~660 SF |
| PHA-15-6A | 12X12 VCT Floor tile/Black Mastic | 15D | 8% Chrysotile | |
| PHA-15-6B | 12X12 VCT Floor tile/White Tile | 16C | 2% Chrysotile | |
| PHA-15-6B | 12X12 VCT Floor tile/Black Mastic | 16D | 8% Chrysotile | |
| PHA-15-8A | Stair Tread/Mastic-Brown Mastic | 19B | Trace | ~42 SF |
| PHA-15-8B | Stair Tread/Mastic-Brown Mastic | 20C | Trace | |
| PHA-15-8Q | Stair Tread/Mastic-Brown Mastic | 32C | Trace | |
| PHA-15-9A | TSI Sheeting | 21 | 70% Chrysotile | ~25 SF |
| PHA-15-9B | TSI Sheeting | 22 | 70% Chrysotile | |
| PHA-15-9C | TSI Sheeting | 23 | 70% Chrysotile | |
| PHA-17-2C | Roll Textured Drywall/Off-white texture | 6C | 2% Chrysotile | ~674 SF |
| PHA-17-4B | Cove base/Mastic | 11E | 2% Chrysotile | ~196 SF |
| PHA-17-6A | Texture on Concrete | 14B | 3% Chrysotile | ~187 SF |
| PHA-17-6A | Texture on Concrete | 14C | 3% Chrysotile | |
| PHA-17-6B | Texture on Concrete | 15B | 3% Chrysotile | |
| PHA-17-6B | Texture On Concrete | 15E | 3% Chrysotile | |
| PHA-17-6C | Texture on Concrete | 16B | 3% Chrysotile | |
| PHA-17-6C | Texture on Concrete | 16E | 3% Chrysotile | |
| PHA-17-7A | 12X12 VCT Floor tile/Tan Floor tile | 17C | 3% Chrysotile | ~748 SF |
| PHA-17-7A | 12X12 VCT Floor Tile/Black Mastic | 17D | 10% Chrysotile | |
| PHA-17-7B | 12X12 VCT Floor Tile/Tan Floor Tile | 18C | 2% Chrysotile | |
| PHA-17-7B | 12X12 VCT Floor tile/Black Mastic | 18D | 10% Chrysotile | |
| PHA-17-11A | TSI Sheeting | 27 | 65% Chrysotile | ~15 SF |
| PHA-17-11B | TSI Sheeting | 28 | 65% Chrysotile | |
| PHA-17-11C | TSI Sheeting | 29 | 65% Chrysotile | |

| Sample ID | Material | Lab Layer Number | Asbestos Content | Quantity |
|---|---|---|---|---|
| PHA-19-4A | 12X12 VCT Floor tile/Tan Tile | 10C | 2% Chrysotile | ~484 SF |
| PHA-19-4A | 12X12 VCT Floor tile/Black Mastic | 10D | 6% Chrysotile | |
| PHA-19-4B | 12X12 VCT Floor tile/Tan Tile | 11C | 2% Chrysotile | |
| PHA-19-4B | 12X12 VCT Floor tile/Black Mastic | 11D | 5% Chrysotile | |
| PHA-19-7A | Texture on Concrete | 16 | 3% Chrysotile | ~484 SF |
| PHA-19-7B | Texture on Concrete | 17 | 3% Chrysotile | |
| PHA-21-4A | Texture On Concrete/Tan Texture | 10C | 3% Chrysotile | ~300 SF |
| PHA-21-4B | Texture On Concrete/Tan Texture | 11C | 3% Chrysotile | |
| PHA-21-4C | Texture On Concrete/Tan Texture | 12C | 3% Chrysotile | |
| PHA-21-6A | 12X12 VCT Floor tile/Off-white Tile | 15C | 2% Chrysotile | ~660 SF |
| PHA-21-6A | 12X12 VCT-Floor tile/Black Mastic | 15D | 8% Chrysotile | |
| PHA-21-6B | 12X12 VCT Floor Tile/Off-White Tile | 16C | 2% Chrysotile | |
| PHA-21-6B | 12X12 VCT Floor Tile/Black Mastic | 16D | 8% Chrysotile | |
| PHA-23-6A | Texture on Concrete | 14B | 3% Chrysotile | ~300 SF |
| PHA-23-6B | Texture on Concrete | 15B | 3% Chrysotile | |
| PHA-23-6C | Texture on Concrete | 16A | 3% Chrysotile | |
| PHA-23-7A | 12X12 VCT Floor tile/Tan Tile | 17C | 2% Chrysotile | ~660 SF |
| PHA-23-7A | 12X12 VCT Floor Tile/ Black Mastic | 17D | 6% Chrysotile | |
| PHA-23-7B | 12X12 VCT Floor Tile/Tan Tile | 18C | 2% Chrysotile | |
| PHA-23-7B | 12X12 VCT Floor tile/Black Mastic | 18D | 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-15-4A | 1.50% | CDPHE |
| PHA-15-4B | Positive Stop | CDPHE |
| PHA-15-4C | Positive Stop | CDPHE |
| PHA-15-5A | Insufficient Material | CDPHE |
| PHA-15-5B | Insufficient Material | CDPHE |
| PHA-17-2C | 1.75% | CDPHE |
| PHA-17-4B | 1.50% | CDPHE |
| PHA-17-6A | 4.00% | CDPHE |
| PHA-17-6A | 1.75% | CDPHE |
| PHA-17-6B | Positive Stop | CDPHE |
| PHA-17-6C | Positive Stop | CDPHE |
| PHA-17-6C | Positive Stop | CDPHE |
| PHA-19-7A | 1.50% | CDPHE |
| PHA-19-7A | Positive Stop | CDPHE |
| PHA-21-4A | 2.50% | CDPHE |
| PHA-21-4B | Positive Stop | CDPHE |
| PHA-21-4C | Positive Stop | CDPHE |
| PHA-23-6A | 1.75% | CDPHE |
| PHA-23-6B | Positive Stop | CDPHE |
| PHA-23-6C | 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):

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**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 #1**
**Colorado Certified Asbestos building Inspector(s) Robert Sais, Joseph Cardenas**

| APEC 21 -4558 | | DATE INSPECTED: 09/21/2021 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 ft²** | **Material Category** | **Friability** | **Hazard Ranking** |
| **Unit A** | | | | | | | | | | | | | | |
| Unit A | 1 | PHA-15-1A | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 1A | Good | Negative | ND | NA | ~448 | Surfacing | Friable | NA |
| | | PHA-15-1A | Roll Textured Plaster | Walls | White Plaster with beige/tan paint | 1B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1A | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 1C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1B | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 2A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1B | Roll Textured Plaster | Walls | White Plaster with beige/tan paint | 2B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1B | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 2C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1C | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 3A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1C | Roll Textured Plaster | Walls | White Plaster with beige/tan paint | 3B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1C | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 3C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-1C | Roll Textured Plaster | Walls | White/Tan Drywall | 3D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 2 | PHA-15-2A | Roll Texture Drywall | Walls | White Texture w/Beige Paint | 4A | Good | Negative | ND | NA | ~551 | Surfacing | Friable | NA |
| | | PHA-15-2A | Roll texture Drywall | Walls | Pink/Tan Drywall | 4B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-2B | Roll Texture Drywall | Walls | White Texture w/Beige Paint | 5A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-2B | Roll Texture Drywall | Walls | Pink/Tan Drywall | 5B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-2C | Roll Texture Drywall | Walls | White Texture w/Beige Paint | 6A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-2C | Roll Texture Drywall | Walls | Pink/Tan Drywall | 6B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 3 | PHA-15-3A | Smooth Plaster | Walls behind Drywall | Tan Resinous Material | 7A | Good | Negative | ND | NA | ~704 | Surfacing | Friable | NA |
| | | PHA-15-3A | Smooth Plaster | Walls behind Drywall | White plaster with off-white paint | 7B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3A | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 7C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3B | Smooth Plaster | Walls behind Drywall | White plaster with off-white paint | 8A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3B | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 8B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3C | Smooth Plaster | Walls behind Drywall | Blue Resinous Material | 9A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3C | Smooth Plaster | Walls behind Drywall | White Plasetr with off-white paint | 9B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-3C | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 9C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 4 | PHA-15-4A | Texture on Concrete | Lower level ceiling | White Texture w/Beige Paint | 10A | Good | Negative | ND | NA | ~300 | Surfacing | Friable | 5 |
| | | **PHA-15-4A** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture w/Beige paint** | **10B** | **Good** | **Positive** | **2% Chrysotile** | **1.50%** | | **Surfacing** | **Friable** | |
| | | PHA-15-4A | Texture on Concrete | Lower level ceiling | Gray Granular cementitious material | 10C | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-15-4B | Texture on Concrete | Lower level ceiling | White Texture w/Beige Paint | 11A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-15-4B | Texture on Concrete | Lower level ceiling | Yellow Resinous Material | 11B | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | **PHA-15-4B** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture w/Beige paint** | **11C** | **Good** | **Positive** | **2% Chrysotile** | **Positive Stop** | | **Surfacing** | **Friable** | |
| | | PHA-15-4B | Texture on Concrete | Lower level ceiling | Gray Granular cementitious material | 11D | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-15-4C | Texture on Concrete | Lower level ceiling | White Texture w/Beige Paint | 12A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | **PHA-15-4C** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture w/Beige paint** | **12B** | **Good** | **Positive** | **2% Chrysotile** | **Positive Stop** | | **Surfacing** | **Friable** | |
| | | PHA-15-4C | Texture on Concrete | Lower level ceiling | Gray Granular cementitious material | 12C | Good | Negative | ND | NA | | Surfacing | Friable | |
| | 5 | PHA-15-5A | Cove Base/Mastic | Walls | Brown Cove Base | 13A | Good | Negative | ND | NA | ~96 | Miscellaneous | Non-Friable | 5 |
| | | PHA-15-5A | Cove Base/Mastic | Walls | Brown Mastic | 13B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-5A | Cove Base/Mastic | Walls | White Texture w/Beige Paint | 13C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-15-5A** | **Cove Base/Mastic** | **Walls** | **Tan Texture w/Beige paint** | **13D** | **Good** | **Positive** | **2% Chrysotile** | **Insuffficent** | | **Miscellaneous** | **Non-Friable** | |
| | | PHA-15-5B | Cove Base/Mastic | Walls | Brown Cove Base | 14A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-5B | Cove Base/Mastic | Walls | Brown Mastic | 14B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-15-5B** | **Cove Base/Mastic** | **Walls** | **Tan Texture w/Beige paint** | **14C** | **Good** | **Positive** | **2% Chrysotile** | **Insufficiant** | | **Miscellaneous** | **Non-Friable** | |
| | | PHA-15-5B | Cove Base/Mastic | Walls | Brown Mastic | 14D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-5B | Cove Base/Mastic | Walls | White Plaster with beige/tan paint | 14E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | 6 | PHA-15-6A | 12X12 VCT Floor tile/Mastic | Floor | Gray Floor tile | 15A | Good | Negative | ND | NA | ~660 | Miscellaneous | Non-Friable | 5 |
| | | PHA-15-6A | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 15B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-15-6A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **White Floor tile** | **15C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | | **PHA-15-6A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Black Mastic** | **15D** | **Good** | **Positive** | **8% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | | PHA-15-6B | 12X12 VCT Floor tile/Mastic | Floor | Gray Floor tile | 16A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-6B | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 16B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-15-6B** | **12X12 VCT Floor tile/Mastic** | **Floor** | **White Floor tile** | **16C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | | **PHA-15-6B** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Black Mastic** | **16D** | **Good** | **Positive** | **8% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | 7 | PHA-15-7A | Window Caulking | Windows | White Caulking | 17A | Good | Negative | ND | NA | ~15 | Miscellaneous | Non-Friable | NA |
| | | PHA-15-7A | Window Caulking | Windows | White Texture | 17B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-15-7B | Window Caulking | Windows | White Caulking | 18A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-15-7B | Window Caulking | Windows | White Texture | 18B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit A | 8 | PHA-15-8A | Stair Tread/Mastic | Stairwell | Brown Stair tread | 19A | Good | Negative | ND | NA | ~42 | Miscellaneous | Non-Friable | 5 |
| | | PHA-15-8A | Stair Tread/Mastic | Stairwell | Brown Mastic | 19B | Good | Positive | Trace | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8B | Stair Tread/Mastic | Stairwell | Tan Resinous Material | 20A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8B | Stair Tread/Mastic | Stairwell | Brown Stair tread | 20B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8B | Stair Tread/Mastic | Stairwell | Brown Mastic | 20C | Good | Positive | Trace | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8Q | Stair Tread/Mastic | Stairwell | Tan Resinous Material | 32A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8Q | Stair Tread/Mastic | Stairwell | Brown Stair tread | 32B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-15-8Q | Stair Tread/Mastic | Stairwell | Brown mastic | 32C | Good | Positive | Trace | NA | | Miscellaneous | Non-Friable | |
| | 9 | PHA-15-9A | TSI Sheeting | HVAC Registers | Gray Insulation wrap | 21 | Good | Positive | 70% Chrysotile | NA | ~25 | TSI | Friable | 5 |
| | | PHA-15-9B | TSI Sheeting | HVAC Registers | Gray Insulation wrap | 22 | Good | Positive | 70% Chrysotile | NA | | TSI | Friable | |
| | | PHA-15-9C | TSI Sheeting | HVAC Registers | Gray Insulation wrap | 23 | Good | Positive | 70% Chrysotile | NA | | TSI | Friable | |
| | 10 | PHA-15-10A | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 24A | Good | Negative | ND | NA | ~982 | Surfacing | Friable | NA |
| | | PHA-15-10A | Roll Textured Plaster | Walls | White Plaster with Beige/Tan paint | 24B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10A | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 24C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10A | Roll Textured Plaster | Walls | Tan paper | 24D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10B | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 25A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10B | Roll Textured Plaster | Walls | White Plaster with beige/tan paint | 25B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10B | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 25C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10C | Roll Textured Plaster | Walls | White Texture w/Beige Paint | 26A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10C | Roll Textured Plaster | Walls | Yellow Resinous Material | 26B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10C | Roll Textured Plaster | Walls | White Plaster with Beige/green paint | 26C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-10C | Roll Textured Plaster | Walls | Off-White Perlitic Plaster | 26D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 11 | PHA-15-11A | Roll Textured Drywall | Walls | White Texture w/Beige Paint | 27A | Good | Negative | ND | NA | ~483 | Surfacing | Friable | NA |
| | | PHA-15-11A | Roll Textured Drywall | Walls | Pink/Tan Drywall | 27B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-11B | Roll Textured Drywall | Walls | White Texture w/Beige Paint | 28A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-11B | Roll Textured Drywall | Walls | Pink/Tan Drywall | 28B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-11C | Roll Textured Drywall | Walls | White Texture w/Beige Paint | 29A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-15-11C | Roll Textured Drywall | Walls | Pink/Tan Drywall | 29B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 12 | PHA-15-12A | Brick/Mortar | Exterior walls | Red Brick | 30A | Good | Negative | ND | NA | Entire Exterior | Miscellaneous | Non-Friable | NA |
| | | PHA-15-12A | Brick/Mortar | Exterior walls | Gray Mortar | 30B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-15-12B | Brick/Mortar | Exterior walls | Red Brick | 31A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-15-12B | Brick/Mortar | Exterior walls | Gray Mortar | 31B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| **Unit B** | | | | | | | | | | | | | | |
| Unit B | 1 | PHA-17-1A | Roll Textured Plaster | Walls | White Texture w/Cream/White Paint | 1A | Good | Negative | ND | NA | ~832 | Surfacing | Friable | NA |
| | | PHA-17-1A | Roll Textured Plaster | Walls | White Plaster W/White/Tan Paint | 1B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1A | Roll Textured Plaster | Walls | Gray Perlitic Plaster | 1C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1B | Roll Textured Plaster | Walls | White Texture w/Cream/White Paint | 2A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1B | Roll Textured Plaster | Walls | White Plaster W/White/Tan Paint | 2B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1B | Roll Textured Plaster | Walls | Gray Perlitic Plaster | 2C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1B | Roll Textured Plaster | Walls | Pink/Tan Drywall | 2D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1C | Roll Textured Plaster | Walls | White Texture w/Cream/White Paint | 3A | Good | Negative | ND | NA | | surfacing | Friable | NA |
| | | PHA-17-1C | Roll Textured Plaster | Walls | White Plaster W/White/Tan Paint | 3B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-1C | Roll Textured Plaster | Walls | Gray Perlitic Plaster | 3C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 2 | PHA-17-2A | Roll Textured Drywall | Walls | White Texture w/Cream/White Paint | 4A | Good | Negative | ND | NA | ~674 | Surfacing | Friable | 5 |
| | | PHA-17-2A | Roll Textured Drywall | Walls | Pink/Tan Drywall | 4B | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-2B | Roll Textured Drywall | Walls | White Texture w/Cream/White Paint | 5A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-2B | Roll Textured Drywall | Walls | Pink/Tan Drywall | 5B | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-2C | Roll Textured Drywall | Walls | White Texture w/Cream/White Paint | 6A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-2C | Roll Textured Drywall | Walls | Beige/White Paint | 6B | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-2C | Roll Textured Drywall | Walls | Off-White Texture | 6C | Good | Positive | 2% Chrysotile | 1.75% | | Surfacing | Friable | |
| | | PHA-17-2C | Roll Textured Drywall | Walls | Off-White/Tan Drywall | 6D | Good | Negative | ND | NA | | Surfacing | Friable | |
| | 3 | PHA-17-3A | Smooth Plaster | Walls behind Drywall | White Plaster w/Beige/Multicolored | 7A | Good | Negative | ND | NA | ~624 | Surfacing | Friable | NA |
| | | PHA-17-3A | Smooth Plaster | Walls behind Drywall | Gray Perlitic Plaster | 7B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-3A | Smooth Plaster | Walls behind Drywall | Tan Drywall Paper | 7C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-3B | Smooth Plaster | Walls behind Drywall | White Plaster w/Beige/Multicolored | 8A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-3B | Smooth Plaster | Walls behind Drywall | Gray Perlitic Plaster | 8B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-3C | Smooth Plaster | Walls behind Drywall | White Plaster w/Beige/Multicolored | 9A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-3C | Smooth Plaster | Walls behind Drywall | Gray Perlitic Plaster | 9B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 4 | PHA-17-4A | Cove Base/Mastic | Walls | Brown Cove Base | 10A | Good | Negative | ND | NA | ~196 | Miscellaneous | Non-Friable | 5 |
| | | PHA-17-4A | Cove Base/Mastic | Walls | Off-White Mastic | 10B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4A | Cove Base/Mastic | Walls | Tan Mastic | 10C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4A | Cove Base/Mastic | Walls | Dark Brown Mastic | 10D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4A | Cove Base/Mastic | Walls | White/Off-White Texture w/white paint | 10E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit B | 4 | PHA-17-4A | Cove Base/Mastic | Walls | White Perlitic Plaster | 10F | Good | Negative | ND | NA | ~196 | Miscellaneous | Non-Friable | 5 |
| | | PHA-17-4B | Cove Base/Mastic | Walls | Brown Cove Base | 11A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | White Mastic | 11B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | Tan Mastic | 11C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | Dark Brown Mastic | 11D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | Light Pink Compoundw/White Paint | 11E | Good | Positive | 2% Chrysotile | 1.50% | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | White/Off-White Compound w/White Paint | 11F | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-4B | Cove Base/Mastic | Walls | White Perlitic Plaster | 11G | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | 5 | PHA-17-5A | Stair Tread/Mastic | Stairwell | Brown Stair Tread | 12A | Good | Negative | ND | NA | ~42 | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5A | Stair Tread/Mastic | Stairwell | Off-White Mastic | 12B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5A | Stair Tread/Mastic | Stairwell | Brown Mastic | 12C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5A | Stair Tread/Mastic | Stairwell | Brown/multicoloredpaint w/Gray Plaster | 12D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5B | Stair Tread/Mastic | Stairwell | Brown Stair Tread | 13A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5B | Stair Tread/Mastic | Stairwell | Off-White Mastic | 13B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5B | Stair Tread/Mastic | Stairwell | Brown Mastic | 13C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5B | Stair Tread/Mastic | Stairwell | White paint with white compound | 13D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-5B | Stair Tread/Mastic | Stairwell | Brown/multicoloredpaint w/Gray Plaster | 13E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 6 | PHA-17-6A | Texture on Concrete | Lower level ceiling | White texture w/Off-White paint | 14A | Good | Negative | ND | NA | ~187 | Surfacing | Friable | 5 |
| | | PHA-17-6A | Texture on Concrete | Lower level ceiling | Off-White Compound | 14B | Good | Positive | 3% Chrysotile | 4.00% | | Surfacing | Friable | |
| | | PHA-17-6A | Texture on Concrete | Lower level ceiling | Off-Whitesurfacing compound w/whitepaint | 14C | Good | Positive | 3% Chrysotile | 1.75% | | Surfacing | Friable | |
| | | PHA-17-6A | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 14D | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | White texture w/Off-White paint | 15A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | Off-White Compound | 15B | Good | Positive | 3% Chryotile | Positive Stop | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | White texture w/Off-White paint | 15C | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | Off White paint | 15D | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | Off-White Surfacing Compound | 15E | Good | Posive | 3% Chrysotile | Positive Stop | | Surfacing | Friable | |
| | | PHA-17-6B | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 15F | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | White texture w/Off-White paint | 16A | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | Off-White Compound | 16B | Good | Positive | 3% Chrysotile | Positive Stop | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | WhiteTexture with Off-white Paint | 16C | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | Off-White Paint | 16D | Good | Negative | ND | NA | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | Off-White Surfacing Compound | 16E | Good | Positive | 3% Chrysotile | Positive Stop | | Surfacing | Friable | |
| | | PHA-17-6C | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 16F | Good | Negative | ND | NA | | Surfacing | Friable | |
| | 7 | PHA-17-7A | 12X12 VCT Floor tile/Mastic | Floor | Off-White Floor tile | 17A | Good | Negative | ND | NA | ~748 | Miscellaneous | Non-Friable | 5 |
| | | PHA-17-7A | 12X12 VCT Floor tile/Mastic | Floor | Tan Mastic | 17B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7A | 12X12 VCT Floor tile/Mastic | Floor | Off-White/Tan Floor tile | 17C | Good | Positive | 3% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7A | 12X12 VCT Floor tile/Mastic | Floor | Black Mastic | 17D | Good | Positive | 10% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7A | 12X12 VCT Floor tile/Mastic | Floor | Off-White Paint w/Gray Cementious mate | 17E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7B | 12X12 VCT Floor tile/Mastic | Floor | Off White Floor Tile | 18A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7B | 12X12 VCT Floor tile/Mastic | Floor | Tan Mastic | 18B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7B | 12X12 VCT Floor tile/Mastic | Floor | Off-White/Tan Floor tile | 18C | Good | Positive | 2% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-17-7B | 12X12 VCT Floor tile/Mastic | Floor | Black Mastic | 18D | Good | Negative | 10% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | 8 | PHA-17-8A | Window Caulking | Windows | White Caulking with White paint | 19A | Good | Negative | ND | NA | ~25 | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8A | Window Caulking | Windows | WhiteCaulkingwith White paint | 19B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8A | Window Caulking | Windows | White Paint With White Compound | 19C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8B | Window Caulking | Windows | White Caulking with White paint | 20A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8B | Window Caulking | Windows | White Caulking With White Paint | 20B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8B | Window Caulking | Windows | White paint with white compound | 20C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 9 | PHA-17-9A | Roll Textured Plaster | Walls | Off-White Paint With White Texture | 21A | Good | Negative | ND | NA | ~1480 | Surfacing | Friable | NA |
| | | PHA-17-9A | Roll Textured plaster | Walls | White Plaster with whiteoff-white paint | 21B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9A | Roll Textured Plaster | Walls | Light Gray Perlitic Plaster | 21C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9B | Roll Textured Plaster | Walls | Off-White Paint With White Texture | 22A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9B | Roll Textured Plaster | Walls | Off-White Paint w/whitepaintw/whiteplaster | 22B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9B | RollTextured Plaster | Walls | White Plaster woOff-White Multicopaint | 22C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9B | Roll Textured Plaster | Walls | Light Gray Perlitic Plaster | 22D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9C | Roll Textured Plaster | Walls | Off-white/white paint w/White Texture | 23A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9C | Roll Textured Plaster | Walls | White Plaster w/Off-White Multicopaint | 23B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-9C | Roll Textured Plaster | Walls | Light Gray Perlitic Plaster | 23C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 10 | PHA-17-10A | Roll Textured Drywall | Walls | White Texture w/Cream white paint | 24A | Good | Negative | ND | NA | ~878 | Surfacing | Friable | NA |
| | | PHA-17-10A | Roll Textured Drywall | Walls | Off-White Tan Drywall | 24B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-10B | Roll Textured Drywall | Walls | White Texture w/Cream/White Paint | 25A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-10B | Roll Textured Drywall | Walls | Pink/Tan Drywall | 25B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-17-10C | Roll Textured Drywall | Walls | White Texture w/Cream/White Paint | 26A | Good | Negative | ND | NA | | Surfacing | Friable | NA |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit B | 11 | PHA-17-11A | TSI Sheeting | HVAC Registers | Gray Fiborous Material | 27 | Good | Positive | 65% Chrysotile | NA | ~15 | TSI | Friable | 5 |
| | | PHA-17-11B | TSI Sheeting | HVAC Registers | Gray Fiborous Material | 28 | Good | Positive | 65% Chrysotile | NA | | TSI | Friable | |
| | | PHA-17-11C | TSI Sheeting | HVAC Registers | Gray Fiborous Material | 29 | Good | Positive | 65% Chrysotile | NA | | TSI | Friable | |
| | 12 | PHA-17-12A | Rockwool Insulation | Attic | Brown/Black Tar Paper | 30A | Good | Negative | ND | NA | ~374 | Miscellaneous | Non-Friable | NA |
| | | PHA-17-12A | Rockwool Insulation | Attic | Brown insulation | 30B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-12B | Rockwool Insulation | Attic | Brown/Black Tar Paper | 31A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-12B | Rockwool Insulation | Attic | Brown insulation | 31B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 8 | PHA-17-8Q | Window Caulking | Windows | Off-WhiteCaulk | 33A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-17-8Q | Window Caulking | Windows | Off white texture w/cream white paint | 33B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| **Unit C** | | | | | | | | | | | | | | |
| Unit C | 1 | PHA-19-1A | Roll Texture Drywall | Walls | White Texture w/Cream paint | 1A | Good | Negative | ND | NA | ~328 | Surfacing | Friable | NA |
| | | PHA-19-1A | Roll Texture Drywall | Walls | Pink Tan Drywall | 1B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-1B | Roll Texture Drywall | Walls | White Texture w/Cream Paint | 2A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-1B | Roll Texture Drywall | Walls | Pink Tan Drywall | 2B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-1C | Roll Texture Drywall | Walls | White texture w/cream paint | 3A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-1C | Roll Texture Drywall | Walls | Pink Tan Drywall | 3B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 2 | PHA-19-2A | Roll Texture Plaster | Walls | Off-White Texture w/Cream paint | 4A | Good | Negative | ND | NA | ~976 | Surfacing | Friable | NA |
| | | PHA-19-2A | Roll Texture Plaster | Walls | Off-White Texture w/Cream paint | 4B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2A | Roll Texture Plaster | Walls | Pink/Tan Drywall | 4C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2B | Roll Texture Plaster | Walls | Off-White Texture W/Cream Paint | 5A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2B | Roll Texture Plaster | Walls | Gray tan Drywall | 5B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2C | Roll Texture Plaster | Walls | Off-White Texture W/Cream Paint | 6A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2C | Roll Texture Plaster | Walls | White Plaster W Off-white/multi colored Paint | 6B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-2C | Roll Texture Plaster | Walls | Pink Perlitic Granular Plaster | 6C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 3 | PHA-19-3A | Smooth Plaster | Walls behind Drywall | White Plaster W/Cream Paint | 7A | Good | Negative | ND | NA | ~704 | Surfacing | Friable | NA |
| | | PHA-19-3A | Smooth Plaster | Walls behind Drywall | Pink Perlitic Granular Plaster | 7B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-3A | Smooth Plaster | Walls behind Drywall | Tan paper | 7C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-3B | Smooth Plaster | Walls behind Drywall | White Plaster W/Cream Paint | 8A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-3B | Smooth Plaster | Walls behind Drywall | Pink Perlitic Granular Plaster | 8B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-3C | Smooth Plaster | Walls behind Drywall | White Plaster W Off-white/multi colored Paint | 9A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-19-3C | Smooth Plaster | Walls behind Drywall | Pink Perlitic Granular Plaster | 9B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 4 | PHA-19-4A | 12X12 VCT Floor tile/Mastic | Floor | White Tile | 10A | Good | Negative | ND | NA | ~484 | Miscellaneous | Non-Friable | 5 |
| | | PHA-19-4A | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 10B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4A | 12X12 VCT Floor tile/Mastic | Floor | Tan Tile | 10C | Good | Positive | 2% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4A | 12X12 VCT Floor tile/Mastic | Floor | Black Mastic | 10D | Good | Positive | 6% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4A | 12X12 VCT Floor tile/Mastic | Floor | Tan Granular Plaster | 10E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4B | 12X12 VCT Floor tile/Mastic | Floor | White Tile | 11A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4B | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 11B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4B | 12X12 VCT Floor tile/Mastic | Floor | Tan Mastic | 11C | Good | Positive | 2% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | | PHA-19-4B | 12X12 VCT Floor tile/Mastic | Floor | Black Mastic | 11D | Good | Negative | 5% Chrysotile | NA | | Miscellaneous | Non-Friable | |
| | 5 | PHA-19-5A | Cove Base/Mastic | Walls | Brown Cove Base | 12A | Good | Negative | ND | NA | ~96 | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5A | Cove Base/Mastic | Walls | White/Brown Mastic | 12B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5A | Cove Base/Mastic | Walls | White Compound | 12C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5A | Cove Base/Mastic | Walls | White Compound | 12D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5B | Cove Base/Mastic | Walls | Brown Cove Base | 13A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5B | Cove Base/Mastic | Walls | Yellow Mastic | 13B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5B | Cove Base/Mastic | Walls | White Plaster | 13C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-19-5B | Cove Base/Mastic | Walls | Brown Fibrous Material | 13D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 6 | PHA-19-6A | Window Caulking | Windows | White Caulk With White Paint | 14 | Good | Negative | ND | NA | ~15 | Miscellaneous | Non-Friable | NA |
| | | PHA-19-6B | Window Caulking | Windows | White Caulk | 15 | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 7 | PHA-19-7A | Texture on Concrete | Ceiling | Texture With White Paint | 16 | Good | Positive | 3% Chrysotile | 1.50% | ~484 | Surfacing | Friable | 5 |
| | | PHA-19-7B | Texture on Concrete | Ceiling | Texture With White Paint | 17 | Good | Positive | 3% Chrysotile | Positive Stop | | Surfacing | Friable | |
| **Unit D** | | | | | | | | | | | | | | |
| Unit D | 1 | PHA-21-1A | Rol lTexture Plaster | Walls | Off-WiteTexture With Cream/White Paint | 1A | Good | Negative | ND | NA | ~832 | Surfacing | Friable | NA |
| | | PHA-21-1A | Roll Texture Plaster | Walls | White Plaster W Off-white/multi colored Paint | 1B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1A | Roll Texture Plaster | Walls | Gray Perlitic Plaster | 1C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1B | Roll Texture Plaster | Walls | Off-WiteTexture With Cream/White Paint | 2A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1B | Roll Texture Plaster | Walls | White Plaster W Off-white/multi colored Paint | 2B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1B | Roll Texture Plaster | Walls | Gray Perlitic Plaster | 2C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1C | Roll Texture Plaster | Walls | Off-WiteTexture With Cream/White Paint | 3A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1C | Roll Texture Plaster | Walls | White Plaster W Off-white/multi colored Paint | 3B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-1C | Roll Texture Plaster | Walls | Gray Perlitic Plaster | 3C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 2 | PHA-21-2A | Roll Texture Drywall | Walls | Off-White Texture W/Cream/White Paint | 4A | Good | Negative | ND | NA | ~674 | Surfacing | Friable | NA |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit D | 2 | PHA-21-2A | Roll Texture Drywall | Walls | Pink/Tan Drywall | 4B | Good | Negative | ND | NA | ~674 | Surfacing | Friable | NA |
| | | PHA-21-2B | Roll Texture Drywall | Walls | Off-White Texture W/Cream/White Paint | 5A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-2B | Roll Texture Drywall | Walls | Pink/Tan Drywall | 5B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-2C | Roll Texture Drywall | Walls | Off-White Texture W/Cream/White Paint | 6A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-2C | Roll Texture Drywall | Walls | Pink/Tan Drywall | 6B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 3 | PHA-21-3A | Smooth Plaster | Walls behind Drywall | White Plaster W Off-white/multi colored Paint | 7A | Good | Negative | ND | NA | ~624 | Surfacing | Friable | NA |
| | | PHA-21-3A | Smooth Plaster | Walls behind Drywall | Pink/Gray Perlitic Plaster | 7B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-3B | Smooth Plaster | Walls behind Drywall | White Plaster W Off-white/multi colored Paint | 8A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-3B | Smooth Plaster | Walls behind Drywall | Pink/Gray Perlitic Plaster | 8B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-3C | Smooth Plaster | Walls behind Drywall | White Plaster W Off-white/multi colored Paint | 9A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-3C | Smooth Plaster | Walls behind Drywall | Pink/Gray Perlitic Plaster | 9B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 4 | PHA-21-4A | Texture on Concrete | Lower level ceiling | Off-White Texture W/Cream/White Paint | 10A | Good | Negative | ND | NA | ~300 | Surfacing | Friable | NA |
| | | PHA-21-4A | Texture on Concrete | Lower level ceiling | Off-White Multicolored Paint | 10B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | **PHA-21-4A** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture** | **10C** | **Good** | **Positive** | **3% Chrysotile** | **2.50%** | | **Surfacing** | **Friable** | **NA** |
| | | PHA-21-4A | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 10D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-4B | Texture on Concrete | Lower level ceiling | Off-White Texture W/Cream/White Paint | 11A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-4B | Texture on Concrete | Lower level ceiling | Off-White Multicolored Paint | 11B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | **PHA-21-4B** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture** | **11C** | **Good** | **Positive** | **3% Chrysotile** | **Positive Stop** | | **Surfacing** | **Friable** | **NA** |
| | | PHA-21-4B | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 11D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-4C | Texture on Concrete | Lower level ceiling | Off-White Texture W/Cream/White Paint | 12A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-4C | Texture on Concrete | Lower level ceiling | Off-White Multicolored Paint | 12B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | **PHA-21-4C** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture** | **12C** | **Good** | **Positive** | **3% Chrysotile** | **Positive Stop** | | **Surfacing** | **Friable** | **NA** |
| | | PHA-21-4C | Texture on Concrete | Lower level ceiling | Gray Granular Cementitious material | 12D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 5 | PHA-21-5A | Cove Base/Mastic | Walls | Brown Cove Base | 13A | Good | Negative | ND | NA | ~96 | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5A | Cove Base/Mastic | Walls | Cream Mastic | 13B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5A | Cove Base/Mastic | Walls | Off-White texture With Off-White Paint | 13C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5A | Cove Base/Mastic | Walls | Brown Mastic With Off-White | 13D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5B | Cove Base/Mastic | Walls | Brown Cove Base | 14A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5B | Cove Base/Mastic | Walls | Cream Mastic | 14B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5B | Cove Base/Mastic | Walls | Off-White texture With Off-White Paint | 14C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-5B | Cove Base/Mastic | Walls | Tan paper | 14D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 6 | PHA-21-6A | 12X12 VCT Floor tile/Mastic | Floor | Beige Tile | 15A | Good | Negative | ND | NA | ~660 | Miscellaneous | Non-Friable | NA |
| | | PHA-21-6A | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 15B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | **PHA-21-6A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Off-White Tile** | **15C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | **NA** |
| | | **PHA-21-6A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Black Mastic** | **15D** | **Good** | **Positive** | **8% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | **NA** |
| | | PHA-21-6B | 12X12 VCT Floor tile/Mastic | Floor | Beige Tile | 16A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-6B | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 16B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | **PHA-21-6B** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Off-White tile** | **16C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | **NA** |
| | | **PHA-21-6B** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Black Mastic** | **16D** | **Good** | **Negative** | **8% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | **NA** |
| | | PHA-21-6B | 12X12 VCT Floor tile/Mastic | Floor | Beige Granular Material with Off-White Paint | 16E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 7 | PHA-21-7A | Stair Tread/Mastic | Stairwell | Dark Brown Stair tread | 17A | Good | Negative | ND | NA | ~42 | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7A | Stair Tread/Mastic | Stairwell | Tan Mastic | 17B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7A | Stair Tread/Mastic | Stairwell | Cream Mastic | 17C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7A | Stair Tread/Mastic | Stairwell | Dark Brown Mastic | 17D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7A | Stair Tread/Mastic | Stairwell | Gray Cementious Material | 17E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | Dark Brown Stair tread | 18A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | Tan Mastic | 18B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | Cream Mastic | 18C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | Dark Brown Mastic | 18D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | White Paint With Brown Mastic | 18E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-21-7B | Stair Tread/Mastic | Stairwell | Gray Cementious Material | 18F | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 8 | PHA-21-8A | Roll Texture Drywall | Walls | Off-White Paint with White Texture | 19A | Good | Negative | ND | NA | ~982 | Surfacing | Non-Friable | NA |
| | | PHA-21-8A | Roll Texture Drywall | Walls | Pink/Tan Drywall | 19B | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8B | Roll Texture Drywall | Walls | Off-White Paint with White Texture | 20A | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8B | Roll Texture Drywall | Walls | Pink/Tan Drywall | 20B | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8Q | Roll Texture Drywall | Walls | Off-White Paint with White Texture | 21A | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8Q | Roll Texture Drywall | Walls | Pink/Tan Drywall | 21B | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8C | Roll Texture Drywall | Walls | Off-White Paint with White Texture | 22A | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-8C | Roll Texture Drywall | Walls | Pink/Tan Drywall | 22B | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | 9 | PHA-21-9A | Roll Texture Plaster | Walls | Off-White Paint with White Texture | 23A | Good | Negative | ND | NA | ~483 | Surfacing | Non-Friable | NA |
| | | PHA-21-9A | Roll Texture Plaster | Walls | White Plaster W/Off-White Multicolor paint | 23B | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-9A | Roll Texture Plaster | Walls | Light Gray Perlitic Plaster | 23C | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |
| | | PHA-21-9A | Roll Texture Plaster | Walls | Tan paper | 23D | Good | Negative | ND | NA | | Surfacing | Non-Friable | NA |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit D | 9 | PHA-21-9B | Roll Texture Plaster | Walls | Off-White Paint with White Texture | 24A | Good | Negative | ND | NA | ~483 | Surfacing | Friable | NA |
| | | PHA-21-9B | Roll Texture Plaster | Walls | White Plaster W/Off-White Multicolor paint | 24B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-9B | Roll Texture Plaster | Walls | Light Gray Perlitic Plaster | 24C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-9C | Roll Texture Plaster | Walls | Off-White Paint with White Texture | 25A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-9C | Roll Texture Plaster | Walls | White Plaster W/Off-White Multicolor paint | 25B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-21-9C | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 25C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| **Unit E** | | | | | | | | | | | | | | |
| Unit E | 1 | PHA-23-1A | Roll Texture Plaster | Walls | White Texture w/Beige Paint | 1A | Good | Negative | ND | NA | ~551 | Surfacing | Friable | NA |
| | | PHA-23-1A | Roll Texture Plaster | Walls | White Plaster with beige/tan paint | 1B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1A | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 1C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1A | Roll Texture Plaster | Walls | White/Tan Drywall | 1D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1B | Roll Texture Plaster | Walls | White Texture w/Beige Paint | 2A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1B | Roll Texture Plaster | Walls | White Plaster with beige/tan paint | 2B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1B | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 2C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1B | Roll Texture Plaster | Walls | White/Tan Drywall | 2D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1C | Roll Texture Plaster | Walls | White Texture with Beige | 3A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1C | Roll Texture Plaster | Walls | White Plaster with beige/tan paint | 3B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1C | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 3C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-1C | Roll Texture Plaster | Walls | White/Tan Drywall | 3D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 2 | PHA-23-2A | Roll Texture Drywall | Walls | White Texture With Beige Paint | 4A | Good | Negative | ND | NA | ~448 | Surfacing | Friable | NA |
| | | PHA-23-2A | Roll Texture Drywall | Walls | Pink/Tan Drywall | 4B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-2B | Roll Texture Drywall | Walls | White Texture With Beige Paint | 5A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-2B | Roll Texture Drywall | Walls | Pink/Tan Drywall | 5B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-2C | Roll Texture Drywall | Walls | White Texture With Beige Paint | 6A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-2C | Roll Texture Drywall | Walls | Pink/Tan Drywall | 6B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 3 | PHA-23-3A | Smooth Plaster | Walls behind Drywall | White Texture With Beige Paint | 7A | Good | Negative | ND | NA | ~704 | Surfacing | Friable | NA |
| | | PHA-23-3A | Smooth Plaster | Walls behind Drywall | White Plaster with beige/tan paint | 7B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3A | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 7C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3B | Smooth Plaster | Walls behind Drywall | White Plaster With Beige/Yellow paint | 8A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3B | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 8B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3B | Smooth Plaster | Walls behind Drywall | Pink Drywall Plaster | 8C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3C | Smooth Plaster | Walls behind Drywall | White Plaster with beige/tan paint | 9A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-3C | Smooth Plaster | Walls behind Drywall | Pink Drywall Plaster | 9B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 4 | PHA-23-4A | Stair Tread/Mastic | Stairwell | Brown Stair Tread | 10A | Good | Negative | ND | NA | ~42 | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4A | Stair Tread/Mastic | Stairwell | Brown Mastic | 10B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4A | Stair Tread/Mastic | Stairwell | Brown Mastic | 10C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4A | Stair Tread/Mastic | Stairwell | Gray Mastic | 10D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4A | Stair Tread/Mastic | Stairwell | Yellow Mastic | 10E | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4B | Stair Tread/Mastic | Stairwell | Brown Stair Tread | 11A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4B | Stair Tread/Mastic | Stairwell | Brown Matsic | 11B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4B | Stair Tread/Mastic | Stairwell | Brown Mastic | 11C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-4B | Stair Tread/Mastic | Stairwell | Gray Mastic | 11D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | 5 | PHA-23-5A | Cove Base/Mastic | Walls | Brown Cove Base | 12A | Good | Negative | ND | NA | ~96 | Miscellaneous | Non-Friable | NA |
| | | PHA-23-5A | Cove Base/Mastic | Walls | Brown Mastic | 12B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-5B | Cove Base/Mastic | Walls | Brown Cove Base | 13A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-5B | Cove Base/Mastic | Walls | Brown Mastic | 13B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-5B | Cove Base/Mastic | Walls | White Texture with white paint | 13C | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | | PHA-23-5B | Cove Base/Mastic | Walls | White/Tan Drywall | 13D | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | NA |
| | **6** | PHA-23-6A | Texture on Concrete | Lower level ceiling | White Texture with white paint | 14A | Good | Negative | ND | NA | **~300** | Surfacing | Non-Friable | **5** |
| | | **PHA-23-6A** | **Texture on Concrete** | **Lower level ceiling** | **White Texture with white paint** | **14B** | **Good** | **Positive** | **3% Chrysotile** | **1.75%** | | **Surfacing** | **Non-Friable** | |
| | | PHA-23-6A | Texture on Concrete | Lower level ceiling | Tan Granular Plaster | 14C | Good | Negative | ND | NA | | Surfacing | Non-Friable | |
| | | PHA-23-6B | Texture on Concrete | Lower level ceiling | White Texture with white paint | 15A | Good | Negative | ND | NA | | Surfacing | Non-Friable | |
| | | **PHA-23-6B** | **Texture on Concrete** | **Lower level ceiling** | **White Texture with white paint** | **15B** | **Good** | **Positive** | **3% Chrysotile** | **Positive Stop** | | **Surfacing** | **Non-Friable** | |
| | | PHA-23-6B | Texture on Concrete | Lower level ceiling | Tan Granular Plaster | 15C | Good | Negative | ND | NA | | Surfacing | Non-Friable | |
| | | **PHA-23-6C** | **Texture on Concrete** | **Lower level ceiling** | **Tan Texture with White Paint** | **16A** | **Good** | **Positive** | **3% Chrysotile** | **Positive Stop** | | **Surfacing** | **Non-Friable** | |
| | | PHA-23-6C | Texture on Concrete | Lower level ceiling | Tan Granular Plaster | 16B | Good | Negative | ND | NA | | Surfacing | Non-Friable | |
| | **7** | PHA-23-7A | 12X12 VCT Floor tile/Mastic | Floor | White Tile | 17A | Good | Negative | ND | NA | **~660** | Miscellaneous | Non-Friable | **5** |
| | | PHA-23-7A | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 17B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-23-7A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Tan Tile** | **17C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | | **PHA-23-7A** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Black Mastic** | **17D** | **Good** | **Positive** | **6% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |
| | | PHA-23-7B | 12X12 VCT Floor tile/Mastic | Floor | White Tile | 18A | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | PHA-23-7B | 12X12 VCT Floor tile/Mastic | Floor | Yellow Mastic | 18B | Good | Negative | ND | NA | | Miscellaneous | Non-Friable | |
| | | **PHA-23-7B** | **12X12 VCT Floor tile/Mastic** | **Floor** | **Tan Tile** | **18C** | **Good** | **Positive** | **2% Chrysotile** | **NA** | | **Miscellaneous** | **Non-Friable** | |

| Functional Space ID | Homogeneous Sampling Area ID | Sample ID | Material | Sample Collection Location | Lab Description of Layer | Layer Material | Condition | Asbestos Results | Asbestos Content | Point Count Results | Quantity $ft^2$ | Material Category | Friability | Hazard Ranking |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit E | 7 | PHA-23-7B | 12X12 VCT Floor tile/Mastic | Floor | Black Mastic | 18D | Good | Positive | 3 % Chrysotile | NA | ~660 | Miscellaneous | Friable | 5 |
| | 8 | PHA-23-8A | Roll Texture Drywall | Walls | White Texture With Beige Paint | 19A | Good | Negative | ND | NA | ~982 | Surfacing | Friable | NA |
| | | PHA-23-8A | Roll Textured Drywall | Walls | Pink/Tan Drywall | 19B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8B | Roll Textured Drywall | Walls | White Texture with Beige Paint | 20A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8B | Roll Texture Drywall | Walls | Pink/Tan Drywall | 20B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8Q | Roll Texture Drywall | Walls | White Texture With Beige Paint | 21A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8Q | Roll Texture Drywall | Walls | Pink/Tan Drywall | 21B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8C | Roll Texture Drywall | Walls | White Texture with Beige Paint | 22A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-8Q | Roll Texture Drywall | Walls | Pink/Tan Drywall | 22B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 9 | PHA-23-9A | Roll Texture Plaster | Walls | White Texture With Beige Paint | 23A | Good | Negative | ND | NA | ~483 | Surfacing | Friable | NA |
| | | PHA-23-9A | Roll Texture Plaster | Walls | White Plaster with Beige/Green Paint | 23B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9A | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 23C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9B | Roll Texture Plaster | Walls | White Texture With Beige Paint | 24A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9B | Roll Texture Plaster | Walls | White Plaster with Beige/Tan Paint | 24B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9B | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 24C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9B | Roll Texture Plaster | Walls | Tan Paper | 24D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9C | Roll Texture Plaster | Walls | White Texture with Beige Paint | 25A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9C | Roll Texture Plaster | Walls | White Plaster with Beige/Tan Paint | 25B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9C | Roll Texture Plaster | Walls | Off-White Perlitic Plaster | 25C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-9C | Roll Textured Plaster | Walls | Tan Paper | 25D | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | 10 | PHA-23-10A | Smooth Plaster | Walls behind Drywall | White Plaster With Multicolored paint | 26A | Good | Negative | ND | NA | ~704 | Surfacing | Friable | NA |
| | | PHA-23-10A | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 26B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-10B | Smooth Plaster | Walls behind Drywall | White Plaster With Multicolored paint | 27A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-10B | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 27B | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-10B | Smooth Plaster | Walls behind Drywall | White/Tan Drywall | 27C | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-10C | Smooth Plaster | Walls behind Drywall | White Plaster with Beige/Green Paint | 28A | Good | Negative | ND | NA | | Surfacing | Friable | NA |
| | | PHA-23-10C | Smooth Plaster | Walls behind Drywall | Off-White Perlitic Plaster | 28B | Good | Negative | ND | NA | | Surfacing | Friable | NA |

ND = None Detected
NA = Not Applicable
$ft^2$ = square feet
* = positive due to homo
TBD = To be determined upon demo
SD = Significantly Damaged

> = Greater Than
< = Less Than
~ = Approximated

**Red = Positive**
**Blue=OSHA**

**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**

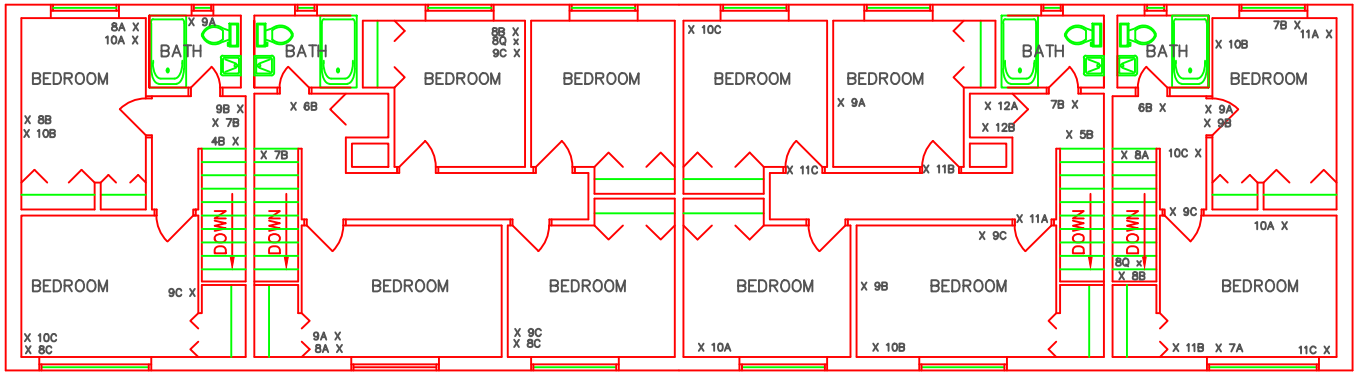
***Materials containing ANY amount of asbestos should be handled according OSHA protocol.***

**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

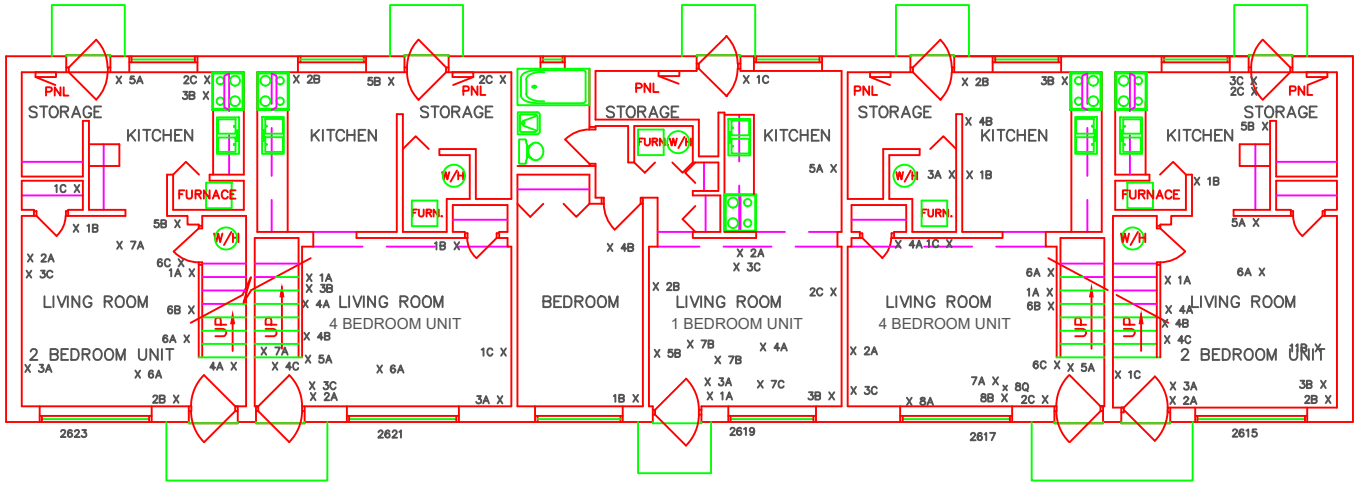
## *SAMPLE LOCATION DIAGRAM*




8 UNIT TYPE "E"
SECOND FLOOR PLAN

# Building 1– Sample location Map

**RE: SITE PLAN SHEET S1, BUILDING 14E**



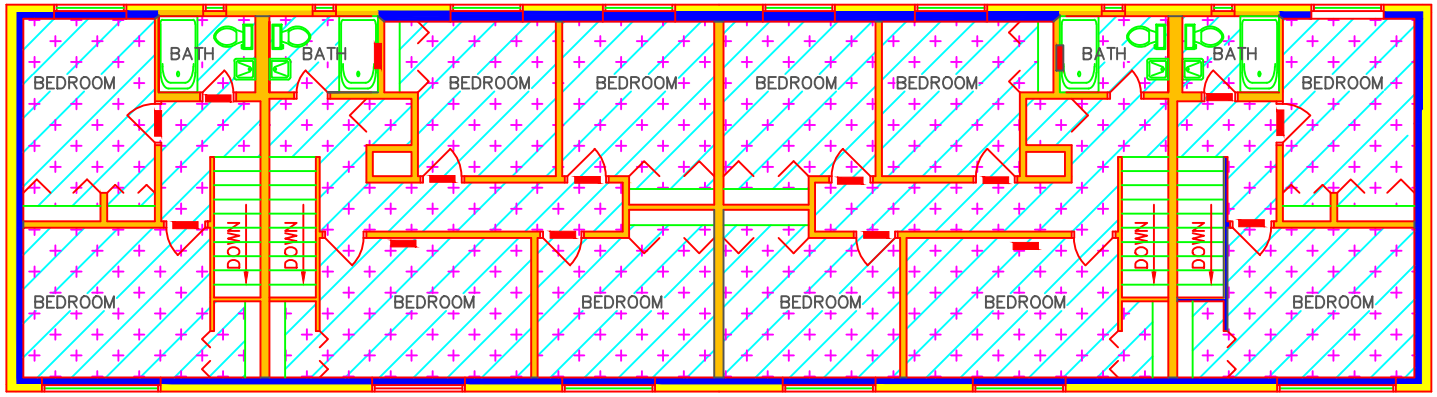

7 UNIT TYPE "E"
FIRST FLOOR PLAN
Not to Scale:
For Reference only

## GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS
- FLOOR PLANS, ELEVATIONS AND BUILDING SECTIONS ARE BASED ON THE ORIGINAL CONSTRUCTION DRAWINGS FROM 1951 AND INTERIOR REMODEL IN 1991.
- RE: SHEET A6 FOR TYPICAL BUILDING SECTIONS.

# APPENDIX 3

## *HOMOGENEOUS MATERIAL LOCATION DIAGRAM*

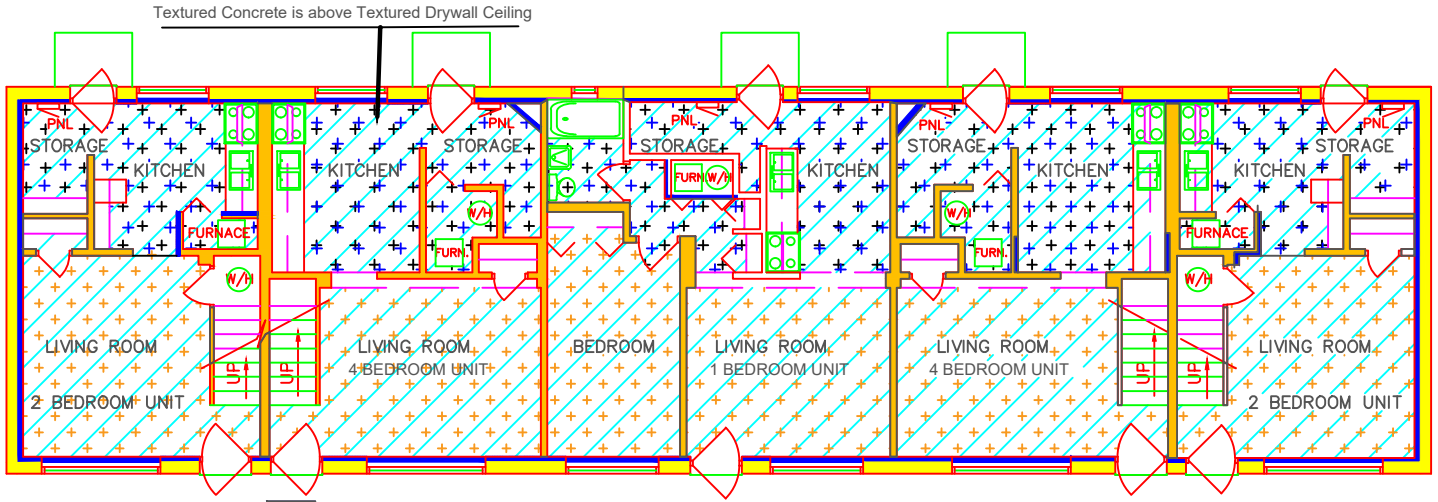



UNIT TYPE "E"

8 SECOND FLOOR PLAN

**RE: SITE PLAN SHEET S1, BUILDING 14E**

# Building 1– Homogeneous Material Map




UNIT TYPE "E"

7 FIRST FLOOR PLAN

Not To Scale:

For Reference only

Textured Drywall

Smooth Plaster

Textured Plaster

Texture Concrete Ceiling

Textured Plastered Ceiling

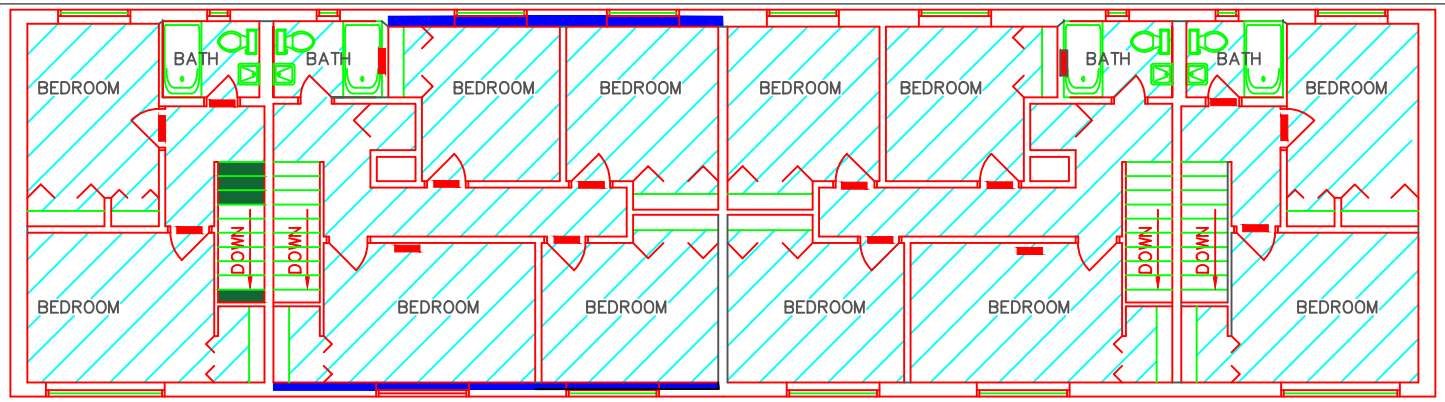
Textured Drywall over Smooth Plaster Ceiling

TSI Sheets

Multi–Layer Floor Tile 12x12

# APPENDIX 4

## *ACM LOCATION DIAGRAM*



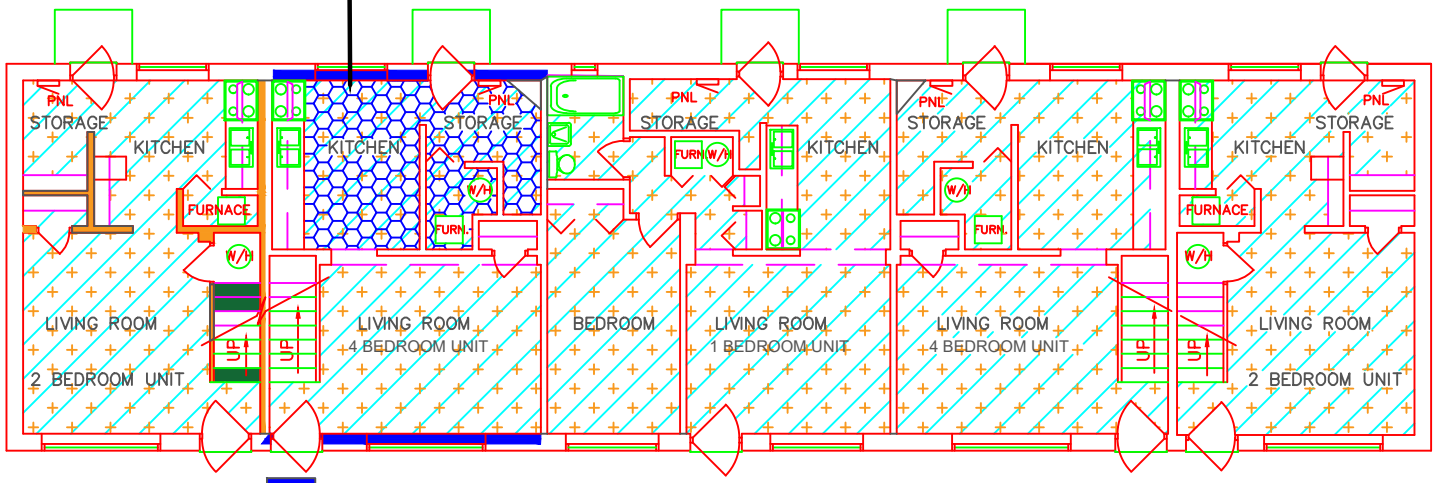

UNIT TYPE "E"

8 SECOND FLOOR PLAN

RE: SITE PLAN SHEET S1, BUILDING 14E

# Building 1– ACM Location Map

Textured Concrete is above Textured Drywall Ceiling




UNIT TYPE "E"

7 FIRST FLOOR PLAN

Not To Scale:

For Reference only

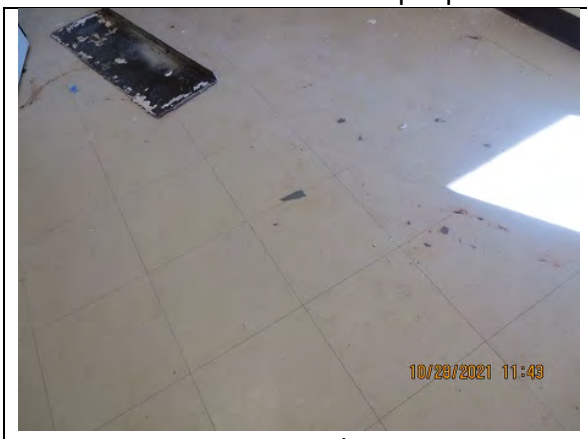
- Textured Drywall Walls
- Texture Drywall Ceilings
- Textured Plaster
- TSI Sheets
- Stair Runner
- Texture Concrete Ceiling
- Multi–Layer Floor Tile 12x12

# 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)

Stair tread/Brown Mastic (ACM)

Texture on Concrete (ACM)

Left Blank intentionally

# APPENDIX 6

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

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

780 Simms Street
Suite 104
Golden, CO, 80401
303.232.3746
www.aerobiology.net

# Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

| | | | |
|---|---|---|---|
| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/2/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/4/2021 |
| Client Project Name: | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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-15-1A | 21042789-1A | White Texture with Beige Paint | N | 35 | ND | | | 100 | C |
| | 21042789-1B | White Plaster with Beige/Tan Paint | N | 25 | ND | | | 100 | G |
| | 21042789-1C | Off-White Perlitic Plaster | Y | 40 | ND | | Tr CELL | 100 | G,P |
| PHA-15-1B | 21042789-2A | White Texture with Beige Paint | N | 25 | ND | | | 100 | C |
| | 21042789-2B | White Plaster with Beige/Tan Paint | N | 30 | ND | | | 100 | G |
| | 21042789-2C | Off-White Perlitic Plaster | Y | 45 | ND | | Tr CELL | 100 | G,P |
| PHA-15-1C | 21042789-3A | White Texture with Beige Paint | N | 10 | ND | | | 100 | C |
| | 21042789-3B | White Plaster with Beige/Tan Paint | N | 20 | ND | | | 100 | G |
| | 21042789-3C | Off-White Perlitic Plaster | Y | 50 | ND | | Tr CELL | 100 | G,P |
| | 21042789-3D | White/Tan Drywall | N | 20 | ND | | 30 CELL | 70 | G |

Andrea Berrios
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
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| City, State ZIP | Pueblo, CO 81003 | | Date Analyzed: 10/2/2021 |
| Attn: | Joey Cardenas | | Date Reported: 10/4/2021 |
| **Client Project Name:** | 21-4558 (A) / Housing Authority | | Project ID: 21042789 |

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-15-2A | 21042789-4A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042789-4B | Pink/Tan Drywall | N | 80 | ND | | 40 CELL | 60 | G |
| PHA-15-2B | 21042789-5A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042789-5B | Pink/Tan Drywall | N | 80 | ND | | 30 CELL | 70 | G |
| PHA-15-2C | 21042789-6A | White Texture with Beige Paint | N | 40 | ND | | | 100 | C |
| | 21042789-6B | Pink/Tan Drywall | N | 60 | ND | | 30 CELL | 70 | G |
| PHA-15-3A | 21042789-7A | Tan Resinous Material | Y | 1 | ND | | | 100 | B |
| | 21042789-7B | White Plaster with Off-White Paint | N | 70 | ND | | | 100 | G |
| | 21042789-7C | Off-White Perlitic Plaster | Y | 29 | ND | | Tr CELL | 100 | G,P |
| PHA-15-3B | 21042789-8A | White Plaster with Off-White Paint | N | 60 | ND | | | 100 | G |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | | Date Reported: 10/4/2021 |
| **Client Project Name:** | 21-4558 (A) / Housing Authority | | Project ID: 21042789 |

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-15-3B | 21042789-8B | Off-White Perlitic Plaster | Y | 40 | ND | | | 100 | G,P |
| PHA-15-3C | 21042789-9A | Blue Resinous Material | Y | 1 | ND | | | 100 | B,C |
| | 21042789-9B | White Plaster with Off-White Paint | N | 34 | ND | | | 100 | G |
| | 21042789-9C | Off-White Perlitic Plaster | Y | 65 | ND | | Tr CELL | 100 | G,P |
| PHA-15-4A | 21042789-10A | White Texture with Beige Paint | N | 6 | ND | | | 100 | C |
| | **21042789-10B** | **Tan Texture with Beige Paint** | **N** | **4** | **CHRY** | **2** | | **98** | **C** |
| | 21042789-10C | Gray Granular Cementitious Material | N | 90 | ND | | | 100 | Q |
| PHA-15-4B | 21042789-11A | White Texture with Beige Paint | N | 2 | ND | | | 100 | C |
| | 21042789-11B | Yellow Resinous Material | Y | Tr | ND | | | 100 | B |
| | **21042789-11C** | **Tan Texture with Beige Paint** | **N** | **6** | **CHRY** | **2** | | **98** | **C** |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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-15-4B | 21042789-11D | Gray Granular Cementitious Material | N | 92 | ND | | | 100 | Q |
| PHA-15-4C | 21042789-12A | White Texture with Beige Paint | N | 25 | ND | | | 100 | C |
| | **21042789-12B** | **Tan Texture with Beige Paint** | **N** | **55** | **CHRY** | **2** | | **98** | **C** |
| | 21042789-12C | Gray Granular Cementitious Material | N | 20 | ND | | Tr CELL | 100 | Q |
| PHA-15-5A | 21042789-13A | Brown Cove Base | Y | 98 | ND | | | 100 | B,C |
| | 21042789-13B | Brown Mastic | Y | 2 | ND | | | 100 | B |
| | 21042789-13C | White Texture with Beige Paint | N | Tr | ND | | | 100 | C |
| | **21042789-13D** | **Tan Texture with Beige Paint** | **N** | **Tr** | **CHRY** | **2** | | **98** | **C** |
| PHA-15-5B | 21042789-14A | Brown Cove Base | Y | 92 | ND | | | 100 | B,C |
| | 21042789-14B | Brown Mastic | Y | 3 | ND | | | 100 | B |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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-15-5B | **21042789-14C** | **Tan Texture with Beige Paint** | **N** | **3** | **CHRY** | **2** | | **98** | **C** |
| | 21042789-14D | Brown Mastic | Y | 2 | ND | | | 100 | B |
| | 21042789-14E | White Plaster with Beige/Tan Paint | N | Tr | ND | | Tr CELL | 100 | G |
| PHA-15-6A | 21042789-15A | Gray Floor Tile | Y | 60 | ND | | | 100 | B,C |
| | 21042789-15B | Yellow Mastic | Y | 1 | ND | | | 100 | B |
| | **21042789-15C** | **White Floor Tile** | **Y** | **38** | **CHRY** | **2** | | **98** | **B,C** |
| | **21042789-15D** | **Black Mastic** | **Y** | **1** | **CHRY** | **8** | | **92** | **T** |
| PHA-15-6B | 21042789-16A | Gray Floor Tile | Y | 85 | ND | | | 100 | B,C |
| | 21042789-16B | Yellow Mastic | Y | 1 | ND | | | 100 | B |
| | **21042789-16C** | **White Floor Tile** | **Y** | **13** | **CHRY** | **2** | | **98** | **B,C** |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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-15-6B | **21042789-16D** | **Black Mastic** | **Y** | **1** | **CHRY** | **8** | | **92** | **T** |
| PHA-15-7A | 21042789-17A | White Caulking | Y | 97 | ND | | | 100 | B,C |
| | 21042789-17B | White Texture | Y | 3 | ND | | | 100 | C |
| PHA-15-7B | 21042789-18A | White Caulking | Y | 98 | ND | | | 100 | B,C |
| | 21042789-18B | White Texture | Y | 2 | ND | | | 100 | C |
| PHA-15-8A | 21042789-19A | Brown Stair Tread | Y | 100 | ND | | | 100 | B,C |
| | **21042789-19B** | **Brown Mastic** | **Y** | **Tr** | **CHRY** | **Tr** | | **100** | **B** |
| PHA-15-8B | 21042789-20A | Tan Resinous Material | Y | 4 | ND | | | 100 | B |
| | 21042789-20B | Brown Stair Tread | Y | 94 | ND | | | 100 | B,C |
| | **21042789-20C** | **Brown Mastic** | **Y** | **2** | **CHRY** | **Tr** | | **100** | **B** |

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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-15-9A | **21042789-21** | **Gray Insulation Wrap** | **Y** | **100** | **CHRY** | **70** | **5 CELL** | **25** | |
| PHA-15-9B | **21042789-22** | **Gray Insulation Wrap** | **Y** | **100** | **CHRY** | **70** | **5 CELL** | **25** | |
| PHA-15-9C | **21042789-23** | **Gray Insulation Wrap** | **Y** | **100** | **CHRY** | **70** | **5 CELL** | **25** | |
| PHA-15-10A | 21042789-24A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042789-24B | White Plaster with Beige/Tan Paint | N | 35 | ND | | | 100 | G |
| | 21042789-24C | Off-White Perlitic Plaster | Y | 44 | ND | | Tr CELL | 100 | G,P |
| | 21042789-24D | Tan Paper | Y | 1 | ND | | 98 CELL | 2 | |
| PHA-15-10B | 21042789-25A | White Texture with Beige Paint | N | 10 | ND | | | 100 | C |
| | 21042789-25B | White Plaster with Beige/Tan Paint | N | 20 | ND | | | 100 | G |
| | 21042789-25C | Off-White Perlitic Plaster | Y | 70 | ND | | Tr CELL | 100 | G,P |

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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-15-10C | 21042789-26A | White Texture with Beige Paint | N | 10 | ND | | | 100 | C |
| | 21042789-26B | Yellow Resinous Material | Y | Tr | ND | | | 100 | B |
| | 21042789-26C | White Plaster with Beige/Green Paint | N | 30 | ND | | | 100 | G |
| | 21042789-26D | Off-White Perlitic Plaster | Y | 60 | ND | | Tr CELL | 100 | G,P |
| PHA-15-11A | 21042789-27A | White Texture with Beige Paint | N | 40 | ND | | | 100 | C |
| | 21042789-27B | Pink/Tan Drywall | N | 60 | ND | | 30 CELL | 70 | G |
| PHA-15-11B | 21042789-28A | White Texture with Beige Paint | N | 25 | ND | | | 100 | C |
| | 21042789-28B | Pink/Tan Drywall | N | 75 | ND | | 35 CELL | 65 | G |
| PHA-15-11C | 21042789-29A | White Texture with Beige Paint | N | 25 | ND | | | 100 | C |
| | 21042789-29B | Pink/Tan Drywall | N | 75 | ND | | 20 CELL | 80 | G |

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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-15-12A | 21042789-30A | Red Brick | N | 80 | ND | | | 100 | Q |
| | 21042789-30B | Gray Mortar | N | 20 | ND | | Tr CELL | 100 | Q |
| PHA-15-12B | 21042789-31A | Red Brick | N | 80 | ND | | | 100 | Q |
| | 21042789-31B | Gray Mortar | N | 20 | ND | | Tr CELL | 100 | Q |
| PHA-15-8Q (Not on Original COC) | 21042789-32A | Tan Resinous Material | Y | 3 | ND | | | 100 | B |
| | 21042789-32B | Brown Stair Tread | Y | 95 | ND | | | 100 | B,C |
| | 21042789-32C | Brown Mastic | Y | 2 | CHRY | Tr | | 100 | B |

Andrea Berrios
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Shannon Whitmore
Asbestos Lab Supervisor

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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

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|---|---|---|---|
| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/5/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/5/2021 |
| Client Project Name: | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-1A | 21042792-1A | White Texture with Cream/White Paint | N | 7 | ND | | | 100 | C |
| | 21042792-1B | White Plaster with White/Tan Paint | N | 10 | ND | | | 100 | G |
| | 21042792-1C | Gray Perlitic Plaster | N | 83 | ND | | 1 CELL | 99 | G |
| PHA-17-1B | 21042792-2A | White Texture with Cream/White Paint | N | 25 | ND | | | 100 | C |
| | 21042792-2B | White Plaster with White/Tan Paint | N | 25 | ND | | | 100 | G |
| | 21042792-2C | Gray Perlitic Plaster | N | 40 | ND | | Tr CELL | 100 | G |
| | 21042792-2D | Pink/Tan Drywall | N | 10 | ND | | 20 CELL | 80 | G |
| PHA-17-1C | 21042792-3A | White Texture with Cream/White Paint | N | 5 | ND | | | 100 | C |
| | 21042792-3B | White Plaster with White/Tan Paint | N | 30 | ND | | | 100 | G |
| | 21042792-3C | Gray Perlitic Plaster | N | 65 | ND | | 1 CELL | 99 | G |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | | Date Reported: 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | | Project ID: 21042792 |

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-17-2A | 21042792-4A | White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |
| | 21042792-4B | Pink/Tan Drywall | N | 85 | ND | | 15 CELL | 85 | G |
| PHA-17-2B | 21042792-5A | White Texture with Cream/White Paint | N | 17 | ND | | | 100 | C |
| | 21042792-5B | Pink/Tan Drywall | N | 83 | ND | | 15 CELL | 85 | G |
| PHA-17-2C | 21042792-6A | White Texture with Cream/White Paint | N | 8 | ND | | | 100 | C |
| | 21042792-6B | Beige/White Paint | N | 4 | ND | | | 100 | |
| | **21042792-6C** | **Off-White Texture** | **Y** | **3** | **CHRY** | **2** | | **98** | **C** |
| | 21042792-6D | Off-White/Tan Drywall | N | 85 | ND | | 25 CELL,FG | 75 | G |
| PHA-17-3A | 21042792-7A | White Plaster with Beige/Multicolored Paint | N | 8 | ND | | | 100 | G |
| | 21042792-7B | Gray Perlitic Plaster | N | 87 | ND | | 1 CELL | 99 | G |

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Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | Date Reported: | 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-3A | 21042792-7C | Tan Drywall Paper | N | 5 | ND | | 95 CELL | 5 | |
| PHA-17-3B | 21042792-8A | White Plaster with Beige/Multicolored Paint | N | 10 | ND | | | 100 | G |
| | 21042792-8B | Gray Perlitic Plaster | N | 90 | ND | | 1 CELL | 99 | G |
| PHA-17-3C | 21042792-9A | White Plaster with Beige/Multicolored Paint | N | 8 | ND | | | 100 | G |
| | 21042792-9B | Gray Perlitic Plaster | N | 92 | ND | | 1 CELL | 99 | G |
| PHA-17-4A | 21042792-10A | Brown Cove Base | Y | 89 | ND | | | 100 | B,C |
| | 21042792-10B | Off-White Mastic | Y | 5 | ND | | | 100 | B,C |
| | 21042792-10C | Tan Mastic | Y | 1 | ND | | | 100 | B,C |
| | 21042792-10D | Dark Brown Mastic | Y | 1 | ND | | Tr TL,CELL | 100 | B |
| | 21042792-10E | White/Off-White Texture with White Paint | N | 3 | ND | | | 100 | G,M |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| CHRY = Chrysotile | MW = Mineral Wool | G = Gypsum | |
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| Attn: | Joey Cardenas | | Date Reported: 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | | Project ID: 21042792 |

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-17-4A | 21042792-10F | White Perlitic Plaster | Y | 1 | ND | | | 100 | G,P |
| PHA-17-4B | 21042792-11A | Brown Cove Base | Y | 65 | ND | | | 100 | B,C |
| | 21042792-11B | White Mastic | Y | 20 | ND | | | 100 | B,C |
| | 21042792-11C | Tan Mastic | Y | 1 | ND | | Tr TL,CELL | 100 | B |
| | 21042792-11D | Dark Brown Mastic | Y | 4 | ND | | Tr TL,CELL | 100 | B |
| | **21042792-11E** | **Light Pink Compound with White Paint** | **N** | **1** | **CHRY** | **2** | | **98** | **G,M** |
| | 21042792-11F | White/Off-White Compound with White Paint | N | 8 | ND | | | 100 | C |
| | 21042792-11G | White Perlitic Plaster | Y | 1 | ND | | | 100 | G,P |
| PHA-17-5A | 21042792-12A | Brown Cove Base | Y | 80 | ND | | | 100 | B,C |
| | 21042792-12B | Off-White Mastic | Y | 8 | ND | | | 100 | B,C |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | | Project ID: 21042792 |

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-17-5A | 21042792-12C | Brown Mastic | Y | 7 | ND | | | 100 | B |
| | 21042792-12D | Brown/Multicolored Paint with Gray Plaster | N | 5 | ND | | | 100 | B |
| PHA-17-5B | 21042792-13A | Brown Cove Base | Y | 82 | ND | | | 100 | B,C |
| | 21042792-13B | Off-White Mastic | Y | 6 | ND | | | 100 | B,C |
| | 21042792-13C | Brown Mastic | Y | 5 | ND | | | 100 | B |
| | 21042792-13D | White Paint with White Compound | N | 3 | ND | | | 100 | C |
| | 21042792-13E | Brown/Multicolored Paint with Gray Plaster | N | 4 | ND | | | 100 | B |
| PHA-17-6A | 21042792-14A | White Texture with Off-White Paint | N | 50 | ND | | | 100 | C |
| | **21042792-14B** | **Off-White Compound** | **Y** | **25** | **CHRY** | **3** | | **97** | **G,M** |
| | **21042792-14C** | **Off-White Surfacing Compound with Off-White Paint** | **N** | **5** | **CHRY** | **3** | | **97** | **G,M** |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-6A | 21042792-14D | Gray Granular Cementitious Material | N | 20 | ND | | | 100 | Q |
| PHA-17-6B | 21042792-15A | White Texture with Off-White Paint | N | 20 | ND | | | 100 | C |
| | **21042792-15B** | **Off-White Compound** | **Y** | **5** | **CHRY** | **3** | | **97** | **G,M** |
| | 21042792-15C | White Texture with Off-White Paint | N | 15 | ND | | | 100 | C |
| | 21042792-15D | Off-White Paint | Y | 10 | ND | | | 100 | B |
| | **21042792-15E** | **Off-White Surfacing Compound** | **Y** | **25** | **CHRY** | **3** | | **97** | **G,M** |
| | 21042792-15F | Gray Granular Cementitious Material | N | 25 | ND | | | 100 | Q |
| PHA-17-6C | 21042792-16A | White Texture with Off-White Paint | N | 35 | ND | | | 100 | C |
| | **21042792-16B** | **Off-White Compound** | **Y** | **5** | **CHRY** | **3** | | **97** | **G,M** |
| | 21042792-16C | White Texture with Off-White Paint | N | 15 | ND | | | 100 | C |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-17-6C | 21042792-16D | Off-White Paint | Y | 10 | ND | | | 100 | B |
| | **21042792-16E** | **Off-White Surfacing Compound** | **Y** | **20** | **CHRY** | **3** | | **97** | **G,M** |
| | 21042792-16F | Gray Granular Cementitious Material | Y | 15 | ND | | | 100 | Q |
| PHA-17-7A | 21042792-17A | Off-White Floor Tile | Y | 55 | ND | | | 100 | C |
| | 21042792-17B | Tan Mastic | Y | 2 | ND | | | 100 | B |
| | **21042792-17C** | **Off-White/Tan Floor Tile** | **Y** | **37** | **CHRY** | **2** | | **98** | **T** |
| | **21042792-17D** | **Black Mastic** | **Y** | **3** | **CHRY** | **10** | | **90** | **T** |
| | 21042792-17E | Off-White Paint with Gray Cementitious Material | N | 3 | ND | | | 100 | Q |
| PHA-17-7B | 21042792-18A | Off-White Floor Tile | Y | 87 | ND | | | 100 | C |
| | 21042792-18B | Tan Mastic | Y | 2 | ND | | | 100 | B |

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Shannon Whitmore
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-17-7B | **21042792-18C** | **Off-White/Tan Floor Tile** | **Y** | **10** | **CHRY** | **2** | | **98** | **T** |
| | **21042792-18D** | **Black Mastic** | **Y** | **1** | **CHRY** | **10** | | **90** | **T** |
| PHA-17-8A | 21042792-19A | White Caulking with White Paint | N | 50 | ND | | | 100 | B,C |
| | 21042792-19B | White Caulking with White Paint | N | 40 | ND | | | 100 | B,C |
| | 21042792-19C | White Paint with White Compound | N | 10 | ND | | | 100 | C |
| PHA-17-8B | 21042792-20A | White Caulking with White Paint | N | 60 | ND | | | 100 | B,C |
| | 21042792-20B | White Caulking with White Paint | N | 30 | ND | | | 100 | B,C |
| | 21042792-20C | White Paint with White Compound | N | 10 | ND | | | 100 | C |
| PHA-17-9A | 21042792-21A | Off-White Paint with White Texture | N | 15 | ND | | | 100 | C |
| | 21042792-21B | White Plaster with White/Off-White Paint | N | 25 | ND | | | 100 | |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

| | | | |
|---|---|---|---|
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| CHRY = Chrysotile | MW = Mineral Wool | G = Gypsum | |
| CR = Crocidolite | OT = Other | M = Mica | |
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NVLAP TESTING
NVLAP Lab Code 200860-0

| | | | |
|---|---|---|---|
| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/5/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-9A | 21042792-21C | Light Gray Perlitic Plaster | Y | 60 | ND | | | 100 | G,P |
| PHA-17-9B | 21042792-22A | Off-White Paint with White Texture | N | 7 | ND | | | 100 | C |
| | 21042792-22B | Off-White/White Paint with White Texture | N | 8 | ND | | | 100 | C |
| | 21042792-22C | White Plaster with Off-White/Multicolored Paint | N | 20 | ND | | | 100 | |
| | 21042792-22D | Light Gray Perlitic Plaster | Y | 65 | ND | | Tr CELL | 100 | G,P |
| PHA-17-9C | 21042792-23A | Off-White/White Paint with White Texture | N | 7 | ND | | | 100 | C |
| | 21042792-23B | White Plaster with Off-White/Multicolored Paint | N | 23 | ND | | | 100 | |
| | 21042792-23C | Light Gray Perlitic Plaster | Y | 70 | ND | | Tr CELL | 100 | G,P |
| PHA-17-10A | 21042792-24A | White Texture with Cream/White Paint | N | 8 | ND | | | 100 | C |
| | 21042792-24B | Off-White/Tan Drywall | N | 92 | ND | | 15 CELL | 85 | G |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| City, State ZIP | Pueblo, CO 81003 | | Date Analyzed: 10/5/2021 |
| Attn: | Joey Cardenas | | Date Reported: 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | | Project ID: 21042792 |

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-17-10B | 21042792-25A | White Texture with Cream/White Paint | N | 12 | ND | | | 100 | C |
| | 21042792-25B | Pink/Tan Drywall | N | 88 | ND | | 15 CELL | 85 | G |
| PHA-17-10C | 21042792-26A | White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |
| | 21042792-26B | Pink/Tan Drywall | N | 85 | ND | | 15 CELL | 85 | G |
| PHA-17-11A | **21042792-27** | **Gray Fibrous Material** | **N** | **100** | **CHRY** | **65** | **20 CELL** | **15** | |
| PHA-17-11B | **21042792-28** | **Gray Fibrous Material** | **N** | **100** | **CHRY** | **65** | **20 CELL** | **15** | |
| PHA-17-11C | **21042792-29** | **Gray Fibrous Material** | **N** | **100** | **CHRY** | **65** | **20 CELL** | **15** | |
| PHA-17-12A | 21042792-30A | Brown/Black Tar Paper | N | 15 | ND | | 55 CELL | 45 | T |
| | 21042792-30B | Brown Insulation | N | 85 | ND | | 90 MW | 10 | |
| PHA-17-12B | 21042792-31A | Brown/Black Tar Paper | N | 10 | ND | | 55 CELL | 45 | T |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | Date Reported: | 10/5/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-12B | 21042792-31B | Brown Insulation | N | 90 | ND | | 90 MW | 10 | |
| PHA-17-2B (Duplicate Sample ID) | 21042792-32A | White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |
| | 21042792-32B | Pink/Tan Drywall | N | 85 | ND | | 15 CELL | 85 | G |
| PHA-17-8Q (Not on Original COC) | 21042792-33A | Off-White Caulk | Y | 33 | ND | | | 100 | C,B |
| | 21042792-33B | Off-White Texture with Cream/White Paint | N | 67 | ND | | | 100 | C |

N

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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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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| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| Client Project Name: | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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-19-1A | 21042795-1A | White Texture with Cream Paint | N | 8 | ND | | | 100 | C |
| | 21042795-1B | Pink/Tan Drywall | N | 92 | ND | | 12 CELL | 88 | G |
| PHA-19-1B | 21042795-2A | White Texture with Cream Paint | N | 9 | ND | | | 100 | C,G |
| | 21042795-2B | Pink/Tan Drywall | N | 91 | ND | | 12 CELL | 88 | G |
| PHA-19-1C | 21042795-3A | White Texture with Cream Paint | N | 9 | ND | | | 100 | C |
| | 21042795-3B | White/Tan Drywall with Off-White Paint | N | 91 | ND | | 12 CELL,FG | 88 | G |
| PHA-19-2A | 21042795-4A | Off-White Texture with Cream Paint | N | 10 | ND | | | 100 | C |
| | 21042795-4B | White Plaster with Off-White/Multicolored Paint | N | 30 | ND | | | 100 | G |
| | 21042795-4C | Pink Perlitic Granular Plaster | N | 60 | ND | | 5 AH | 95 | P,Q |
| PHA-19-2B | 21042795-5A | Off-White Texture with Cream Paint | N | 40 | ND | | | 100 | C |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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-19-2B | 21042795-5B | Gray/Tan Drywall | N | 60 | ND | | 12 CELL | 88 | G |
| PHA-19-2C | 21042795-6A | Off-White Texture with Cream Paint | N | 25 | ND | | | 100 | C |
| | 21042795-6B | White Plaster with Off-White/Multicolored Paint | N | 65 | ND | | | 100 | G |
| | 21042795-6C | Pink Perlitic Granular Plaster | N | 10 | ND | | 5 AH | 95 | P,Q |
| PHA-19-3A | 21042795-7A | White Plaster with Cream Paint | N | 10 | ND | | | 100 | G |
| | 21042795-7B | Pink Perlitic Granular Plaster | N | 85 | ND | | 5 AH | 95 | P,Q |
| | 21042795-7C | Tan Paper | Y | 5 | ND | | 99 CELL | 1 | |
| PHA-19-3B | 21042795-8A | White Plaster with Cream Paint | N | 10 | ND | | | 100 | G |
| | 21042795-8B | Pink Perlitic Granular Plaster | N | 90 | ND | | 5 AH | 95 | P,Q |
| PHA-19-3C | 21042795-9A | White Plaster with Off-White/Multicolored Paint | N | 15 | ND | | | 100 | G |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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-19-3C | 21042795-9B | Pink Perlitic Granular Plaster | N | 85 | ND | | 5 AH | 95 | P,Q |
| PHA-19-4A | 21042795-10A | White Tile | Y | 45 | ND | | | 100 | |
| | 21042795-10B | Yellow Mastic | Y | 2 | ND | | | 100 | B |
| | **21042795-10C** | **Tan Tile** | **Y** | **49** | **CHRY** | **2** | | **98** | |
| | **21042795-10D** | **Black Mastic** | **Y** | **2** | **CHRY** | **6** | | **94** | **B** |
| | 21042795-10E | Tan Granular Plaster | Y | 2 | ND | | | 100 | Q |
| PHA-19-4B | 21042795-11A | White Tile | Y | 70 | ND | | | 100 | |
| | 21042795-11B | Yellow Mastic | Y | 2 | ND | | | 100 | B |
| | **21042795-11C** | **Tan Tile** | **Y** | **25** | **CHRY** | **2** | | **98** | |
| | **21042795-11D** | **Black Mastic** | **Y** | **3** | **CHRY** | **5** | | **95** | **B** |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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Test Requested: **3002, Asbestos in Bulk Samples**
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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-19-5A | 21042795-12A | Brown Cove Base | Y | 79 | ND | | | 100 | |
| | 21042795-12B | White/Brown Mastics | N | 10 | ND | | 5 TL | 95 | |
| | 21042795-12C | White Compound | Y | 1 | ND | | | 100 | C |
| | 21042795-12D | White Compound | Y | 10 | ND | | | 100 | C |
| PHA-19-5B | 21042795-13A | Brown Cove Base | Y | 90 | ND | | | 100 | |
| | 21042795-13B | Yellow Mastic | Y | 6 | ND | | | 100 | B |
| | 21042795-13C | White Plaster | Y | 3 | ND | | | 100 | C |
| | 21042795-13D | Brown Fibrous Material | Y | 1 | ND | | 99 CELL | 1 | |
| PHA-19-6A | 21042795-14 | White Caulk with White Paint | N | 100 | ND | | | 100 | B |
| PHA-19-6B | 21042795-15 | White Caulk | N | 100 | ND | | | 100 | B |

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| **Client Project Name:** | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-19-7A | **21042795-16** | **Tan Texture with White Paint** | **N** | **100** | **CHRY** | **3** | | **97** | **C** |
| PHA-19-7B | **21042795-17** | **Tan Texture with White Paint** | **N** | **100** | **CHRY** | **3** | | **97** | **C** |
| PHA-19-7C | 21042795-18 | SAMPLE NOT RECEIVED | | | | | | | |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

| | | | |
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| ND = None Detected | W = Wollastonite | P = Perlite | |

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NVLAP TESTING
NVLAP Lab Code 200860-0

| | | | |
|---|---|---|---|
| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/6/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| **Client Project Name:** | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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.
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| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| Client Project Name: | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-1A | 21042796-1A | Off-White Texture with Cream/White Paint | N | 12 | ND | | | 100 | C |
| | 21042796-1B | White Plaster with White/Multicolored Paint | N | 15 | ND | | | 100 | G |
| | 21042796-1C | Gray Perlitic Granular Plaster | N | 73 | ND | | Tr CELL | 100 | P,Q |
| PHA-21-1B | 21042796-2A | Off-White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |
| | 21042796-2B | White Plaster with White/Multicolored Paint | N | 18 | ND | | | 100 | G |
| | 21042796-2C | Gray Perlitic Granular Plaster | N | 67 | ND | | Tr CELL | 100 | P,Q |
| PHA-21-1C | 21042796-3A | Off-White Texture with Cream/White Paint | N | 14 | ND | | | 100 | C |
| | 21042796-3B | White Plaster with White/Multicolored Paint | N | 18 | ND | | | 100 | G |
| | 21042796-3C | Gray Perlitic Granular Plaster | N | 68 | ND | | Tr CELL | 100 | P,Q |
| PHA-21-2A | 21042796-4A | Off-White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

| | | | |
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| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/6/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-2A | 21042796-4B | Pink/Tan Drywall | N | 85 | ND | | 14 CELL | 86 | G |
| PHA-21-2B | 21042796-5A | Off-White Texture with Cream/White Paint | N | 15 | ND | | | 100 | C |
| | 21042796-5B | Pink/Tan Drywall | N | 85 | ND | | 14 CELL | 86 | G |
| PHA-21-2C | 21042796-6A | Off-White Texture with Cream/White Paint | N | 20 | ND | | | 100 | C |
| | 21042796-6B | Pink/Tan Drywall | N | 80 | ND | | 25 CELL | 75 | G |
| PHA-21-3A | 21042796-7A | White Plaster with Off-White/Multicolored Paint | N | 22 | ND | | | 100 | G |
| | 21042796-7B | Pink/Gray Perlitic Granular Plaster | N | 78 | ND | | 2 CELL,AH | 98 | P,Q |
| PHA-21-3B | 21042796-8A | White Plaster with Off-White/Multicolored Paint | N | 25 | ND | | | 100 | G |
| | 21042796-8B | Pink/Gray Perlitic Granular Plaster | N | 75 | ND | | 2 CELL,AH | 98 | P,Q |
| PHA-21-3C | 21042796-9A | White Plaster with Off-White/Multicolored Paint | N | 20 | ND | | | 100 | G |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| City, State ZIP | Pueblo, CO 81003 | | Date Analyzed: 10/6/2021 |
| Attn: | Joey Cardenas | | Date Reported: 10/6/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | | Project ID: 21042796 |

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-21-3C | 21042796-9B | Pink/Gray Perlitic Granular Plaster | N | 80 | ND | | 2 CELL,AH | 98 | P,Q |
| PHA-21-4A | 21042796-10A | Off-White Texture with Cream/White Paint | N | 7 | ND | | | 100 | C |
| | 21042796-10B | Off-White/Multicolored Paint | N | 10 | ND | | | 100 | |
| | **21042796-10C** | **Tan Texture** | **Y** | **8** | **CHRY** | **3** | | **97** | **C** |
| | 21042796-10D | Gray Granular Cementitious Material | N | 75 | ND | | | 100 | Q |
| PHA-21-4B | 21042796-11A | Off-White Texture with Cream/White Paint | N | 20 | ND | | | 100 | C |
| | 21042796-11B | Off-White/Multicolored Paint | N | 30 | ND | | | 100 | |
| | **21042796-11C** | **Tan Texture** | **Y** | **20** | **CHRY** | **3** | | **97** | **C** |
| | 21042796-11D | Gray Granular Cementitious Material | N | 30 | ND | | | 100 | Q |
| PHA-21-4C | 21042796-12A | Off-White Texture with Cream/White Paint | N | 8 | ND | | | 100 | C |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-4C | 21042796-12B | Off-White/Multicolored Paint | N | 12 | ND | | | 100 | |
| | **21042796-12C** | **Tan Texture** | **Y** | **10** | **CHRY** | **3** | | **97** | **C** |
| | 21042796-12D | Gray Granular Cementitious Material | N | 70 | ND | | | 100 | Q |
| PHA-21-5A | 21042796-13A | Brown Cove Base | N | 70 | ND | | | 100 | C,B |
| | 21042796-13B | Cream Mastic | Y | 15 | ND | | | 100 | C,B |
| | 21042796-13C | Off-White Texture with Off-White Paint | N | 8 | ND | | | 100 | C |
| | 21042796-13D | Brown Mastic with Off-White Paint | N | 7 | ND | | 2 TL | 98 | B |
| PHA-21-5B | 21042796-14A | Brown Cove Base | N | 89 | ND | | | 100 | C,B |
| | 21042796-14B | Cream Mastic | Y | 5 | ND | | | 100 | C,B |
| | 21042796-14C | Off-White Texture with Off-White Paint | N | 3 | ND | | | 100 | C |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-5B | 21042796-14D | Tan Paper | N | 3 | ND | | 95 CELL | 5 | |
| PHA-21-6A | 21042796-15A | Beige Tile | N | 60 | ND | | | 100 | C,B |
| | 21042796-15B | Yellow Mastic | Y | 6 | ND | | | 100 | B |
| | **21042796-15C** | **Off-White Tile** | **N** | **30** | **CHRY** | **2** | | **98** | **C,B** |
| | **21042796-15D** | **Black Mastic** | **Y** | **4** | **CHRY** | **8** | | **92** | **T** |
| PHA-21-6B | 21042796-16A | Beige Tile | N | 60 | ND | | | 100 | C,B |
| | 21042796-16B | Yellow Mastic | Y | 6 | ND | | | 100 | B |
| | **21042796-16C** | **Off-White Tile** | **N** | **30** | **CHRY** | **2** | | **98** | **C,B** |
| | **21042796-16D** | **Black Mastic** | **Y** | **3** | **CHRY** | **8** | | **92** | **T** |
| | 21042796-16E | Beige Granular Material with Off-White Paint | N | 1 | ND | | | 100 | Q |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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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-21-7A | 21042796-17A | Dark Brown Stair Tread | Y | 78 | ND | | | 100 | B,C |
| | 21042796-17B | Tan Mastic | Y | 2 | ND | | | 100 | B,C |
| | 21042796-17C | Cream Mastic | Y | 10 | ND | | | 100 | B,C |
| | 21042796-17D | Dark Brown Mastic | Y | 9 | ND | | | 100 | B |
| | 21042796-17E | White Paint with Brown Mastic | N | 1 | ND | | | 100 | B |
| | 21042796-17F | Gray Cementitious Material | Y | Tr | ND | | | 100 | Q |
| PHA-21-7B | 21042796-18A | Dark Brown Stair Tread | Y | 76 | ND | | | 100 | B,C |
| | 21042796-18B | Tan Mastic | Y | 2 | ND | | | 100 | B,C |
| | 21042796-18C | Cream Mastic | Y | 10 | ND | | | 100 | B,C |
| | 21042796-18D | Dark Brown Mastic | Y | 10 | ND | | | 100 | B |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
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-21-7B | 21042796-18E | White Paint with Brown Mastic | N | 2 | ND | | | 100 | B |
| | 21042796-18F | Gray Cementitious Material | Y | Tr | ND | | | 100 | Q |
| PHA-21-8A | 21042796-19A | Off-White Paint with White Texture | N | 10 | ND | | | 100 | C |
| | 21042796-19B | Pink/Tan Drywall | N | 90 | ND | | 15 CELL | 85 | G |
| PHA-21-8B | 21042796-20A | Off-White Paint with White Texture | N | 10 | ND | | | 100 | C |
| | 21042796-20B | Pink/Tan Drywall | N | 90 | ND | | 15 CELL | 85 | G |
| PHA-21-8Q | 21042796-21A | Off-White Paint with White Texture | N | 10 | ND | | | 100 | C |
| | 21042796-21B | Pink/Tan Drywall | N | 90 | ND | | 15 CELL | 85 | G |
| PHA-21-8C | 21042796-22A | Off-White Paint with White Texture | N | 10 | ND | | | 100 | C |
| | 21042796-22B | Pink/Tan Drywall | N | 90 | ND | | 15 CELL | 85 | G |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/6/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-9A | 21042796-23A | Off-White Paint with White Texture | N | 15 | ND | | | 100 | C |
| | 21042796-23B | White Plaster with Off-White/Multicolored Paint | N | 35 | ND | | | 100 | |
| | 21042796-23C | Light Gray Perlitic Plaster | N | 45 | ND | | | 100 | G,P |
| | 21042796-23D | Tan Paper | Y | 5 | ND | | 85 CELL | 15 | |
| PHA-21-9B | 21042796-24A | Off-White Paint with White Texture | N | 25 | ND | | | 100 | C |
| | 21042796-24B | White Plaster with Off-White/Multicolored Paint | N | 75 | ND | | | 100 | |
| | 21042796-24C | Light Gray Perlitic Plaster | N | Tr | ND | | | 100 | G,P |
| PHA-21-9C | 21042796-25A | Off-White Paint with White Texture | N | 20 | ND | | | 100 | C |
| | 21042796-25B | White Plaster with Off-White/Multicolored Paint | N | 40 | ND | | | 100 | |
| | 21042796-25C | Off-White Perlitic Plaster | N | 40 | ND | | | 100 | G,P |

Piper-Lenore Murphy
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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NVLAP Lab Code 200860-0

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| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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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| Attn: | Joey Cardenas | Date Reported: | 10/6/2021 |
| Client Project Name: | 21-4558 (E) / Pueblo Housing Authority | Project ID: | 21042800 |

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-23-1A | 21042800-1A | White Texture with Beige Paint | N | 6 | ND | | | 100 | C |
| | 21042800-1B | White Plaster with Beige/Tan Paint | N | 24 | ND | | | 100 | G |
| | 21042800-1C | Off-White Perlitic Plaster | Y | 65 | ND | | Tr AH | 100 | G,P |
| | 21042800-1D | White/Tan Drywall | N | 5 | ND | | 65 CELL | 35 | G |
| PHA-23-1B | 21042800-2A | White Texture with Beige Paint | N | 10 | ND | | | 100 | C |
| | 21042800-2B | White Plaster with Beige/Tan Paint | N | 20 | ND | | | 100 | G |
| | 21042800-2C | Off-White Perlitic Plaster | Y | 60 | ND | | Tr CELL,AH | 100 | G,P |
| | 21042800-2D | White/Tan Drywall | N | 10 | ND | | 25 CELL | 75 | G |
| PHA-23-1C | 21042800-3A | White Texture with Beige Paint | N | 10 | ND | | | 100 | C |
| | 21042800-3B | White Plaster with Beige/Tan Paint | N | 50 | ND | | | 100 | G |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| City, State ZIP | Pueblo, CO 81003 | | Date Analyzed: 10/6/2021 |
| Attn: | Joey Cardenas | | Date Reported: 10/6/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | | Project ID: 21042800 |

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-23-1C | 21042800-3C | Off-White Perlitic Plaster | Y | 35 | ND | | Tr CELL,AH | 100 | G,P |
| | 21042800-3D | White/Tan Drywall | N | 5 | ND | | 95 CELL | 5 | G |
| PHA-23-2A | 21042800-4A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042800-4B | Pink/Tan Drywall | N | 80 | ND | | 30 CELL | 70 | G |
| PHA-23-2B | 21042800-5A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042800-5B | Pink/Tan Drywall | N | 80 | ND | | 25 CELL | 75 | G |
| PHA-23-2C | 21042800-6A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042800-6B | Pink/Tan Drywall | N | 80 | ND | | 40 CELL | 60 | G |
| PHA-23-3A | 21042800-7A | White Texture with Beige Paint | N | 2 | ND | | | 100 | C |
| | 21042800-7B | White Plaster with Beige/Tan Paint | N | 8 | ND | | | 100 | G |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | | Date Reported: 10/6/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | | Project ID: 21042800 |

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-23-3A | 21042800-7C | Off-White Perlitic Plaster | N | 90 | ND | | Tr AH | 100 | G,P |
| PHA-23-3B | 21042800-8A | White Plaster with Beige/Yellow Paint | N | 30 | ND | | | 100 | G |
| | 21042800-8B | Off-White Perlitic Plaster | N | 60 | ND | | Tr CELL,AH | 100 | G,P |
| | 21042800-8C | Pink Drywall Plaster | Y | 10 | ND | | 3 CELL | 97 | G |
| PHA-23-3C | 21042800-9A | White Plaster with Beige/Tan Paint | N | 60 | ND | | | 100 | G |
| | 21042800-9B | Pink Drywall Plaster | Y | 40 | ND | | 2 CELL | 98 | G |
| PHA-23-4A | 21042800-10A | Brown Stair Tread | Y | 60 | ND | | | 100 | |
| | 21042800-10B | Brown Mastic | Y | 2 | ND | | 5 TL | 95 | B,C |
| | 21042800-10C | Brown Mastic | Y | 6 | ND | | 5 TL | 95 | B |
| | 21042800-10D | Gray Mastic | Y | 30 | ND | | | 100 | B |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | | Project ID: 21042800 |

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-23-4A | 21042800-10E | Yellow Mastic | Y | 2 | ND | | | 100 | B |
| PHA-23-4B | 21042800-11A | Brown Stair Tread | Y | 40 | ND | | | 100 | |
| | 21042800-11B | Brown Mastic | Y | 2 | ND | | | 100 | B,C |
| | 21042800-11C | Brown Mastic | Y | 8 | ND | | 5 TL | 95 | B |
| | 21042800-11D | Gray Mastic | Y | 50 | ND | | | 100 | B |
| PHA-23-5A | 21042800-12A | Brown Cove Base | Y | 97 | ND | | | 100 | |
| | 21042800-12B | Brown Mastic | Y | 3 | ND | | | 100 | B |
| PHA-23-5B | 21042800-13A | Brown Cove Base | Y | 76 | ND | | | 100 | |
| | 21042800-13B | Brown Mastic | Y | 7 | ND | | | 100 | B |
| | 21042800-13C | White Texture with White Paint | Y | 2 | ND | | | 100 | C |

Andrea Berrios
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 | |
| Tr = Trace | TL = Talc | OP = Opaques | |
| ND = None Detected | W = Wollastonite | P = Perlite | |

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| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | Project ID: | 21042800 |

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-23-5B | 21042800-13D | White/Tan Drywall | N | 15 | ND | | 10 CELL | 90 | G |
| PHA-23-6A | 21042800-14A | White Texture with White Paint | N | 30 | ND | | | 100 | C |
| | **21042800-14B** | **White Texture with White Paint** | **N** | **30** | **CHRY** | **3** | | **97** | **C** |
| | 21042800-14C | Tan Granular Plaster | Y | 40 | ND | | | 100 | Q |
| PHA-23-6B | 21042800-15A | White Texture with White Paint | N | 5 | ND | | | 100 | C |
| | **21042800-15B** | **White Texture with White Paint** | **N** | **70** | **CHRY** | **3** | | **97** | **C** |
| | 21042800-15C | Tan Granular Plaster | Y | 25 | ND | | | 100 | Q |
| PHA-23-6C | **21042800-16A** | **Tan Texture with White Paint** | **N** | **85** | **CHRY** | **3** | | **97** | **C** |
| | 21042800-16B | Tan Granular Plaster | Y | 15 | ND | | | 100 | Q |
| PHA-23-7A | 21042800-17A | White Tile | Y | 60 | ND | | | 100 | |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
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-23-7A | 21042800-17B | Yellow Mastic | Y | 2 | ND | | | 100 | B |
| | **21042800-17C** | **Tan Tile** | **Y** | **37** | **CHRY** | **2** | | **98** | |
| | **21042800-17D** | **Black Mastic** | **Y** | **1** | **CHRY** | **6** | | **94** | **B** |
| PHA-23-7B | 21042800-18A | White Tile | Y | 72 | ND | | | 100 | |
| | 21042800-18B | Yellow Mastic | Y | 1 | ND | | | 100 | B |
| | **21042800-18C** | **Tan Tile** | **Y** | **25** | **CHRY** | **2** | | **98** | |
| | **21042800-18D** | **Black Mastic** | **Y** | **2** | **CHRY** | **3** | | **97** | **B** |
| PHA-23-8A | 21042800-19A | White Texture with Beige Paint | N | 15 | ND | | | 100 | C |
| | 21042800-19B | Pink/Tan Drywall | N | 85 | ND | | 30 CELL | 70 | G |
| PHA-23-8B | 21042800-20A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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|---|---|---|---|---|---|---|---|---|---|
| Client | Lab Sample Number | | | | | | | | |
| PHA-23-8B | 21042800-20B | Pink/Tan Drywall | N | 80 | ND | | 30 CELL | 70 | G |
| PHA-23-8Q | 21042800-21A | White Texture with Beige Paint | N | 20 | ND | | | 100 | C |
| | 21042800-21B | Pink/Tan Drywall | N | 80 | ND | | 15 CELL | 85 | G |
| PHA-23-8C | 21042800-22A | White Texture with Beige Paint | N | 25 | ND | | | 100 | C |
| | 21042800-22B | Pink/Tan Drywall | N | 75 | ND | | 20 CELL | 80 | G |
| PHA-23-9A | 21042800-23A | White Texture with Beige Paint | N | 5 | ND | | | 100 | C |
| | 21042800-23B | White Plaster with Beige/Green Paint | N | 25 | ND | | | 100 | G |
| | 21042800-23C | Off-White Perlitic Plaster | N | 70 | ND | | Tr AH | 100 | G,P |
| PHA-23-9B | 21042800-24A | White Texture with Beige Paint | N | 3 | ND | | | 100 | C |
| | 21042800-24B | White Plaster with Beige/Tan Paint | N | 10 | ND | | | 100 | G |

Andrea Berrios
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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| Client Name | All-Phase Environmental Consultants, Inc. | NVLAP® TESTING | Date Collected: 9/21/2021 |
| Street Address | 721 W. 9th St. | NVLAP Lab Code 200860-0 | Date Received: 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | | Date Analyzed: 10/6/2021 |
| Attn: | Joey Cardenas | | Date Reported: 10/6/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | | Project ID: 21042800 |

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-23-9B | 21042800-24C | Off-White Perlitic Plaster | Y | 85 | ND | | Tr CELL,AH | 100 | G,P |
| | 21042800-24D | Tan Paper | Y | 2 | ND | | 95 CELL | 5 | |
| PHA-23-9C | 21042800-25A | White Texture with Beige Paint | N | 4 | ND | | | 100 | C |
| | 21042800-25B | White Plaster with Beige/Tan Paint | N | 15 | ND | | | 100 | G |
| | 21042800-25C | Off-White Perlitic Plaster | Y | 80 | ND | | Tr CELL,AH | 100 | G,P |
| | 21042800-25D | Tan Paper | Y | 1 | ND | | 95 CELL | 5 | |
| PHA-23-10A | 21042800-26A | White Plaster with Multicolored Paint | N | 20 | ND | | | 100 | G |
| | 21042800-26B | Off-White Perlitic Plaster | Y | 80 | ND | | Tr AH | 100 | G,P |
| PHA-23-10B | 21042800-27A | White Plaster with Multicolored Paint | N | 20 | ND | | | 100 | G |
| | 21042800-27B | Off-White Perlitic Plaster | Y | 65 | ND | | Tr CELL,AH | 100 | G,P |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | | Date Reported: 10/6/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | | Project ID: 21042800 |

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-23-10B | 21042800-27C | White/Tan Drywall | N | 15 | ND | | 20 CELL | 80 | G |
| PHA-23-10C | 21042800-28A | White Plaster with Beige/Green Paint | N | 25 | ND | | | 100 | G |
| | 21042800-28B | Off-White Perlitic Plaster | N | 75 | ND | | Tr AH | 100 | G,P |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

| | | | |
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| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | Project ID: | 21042800 |

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 %.
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- 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.
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| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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-15-4A | **21042789-10B** | **Tan Texture with Beige Paint** | **CHRY** | **1.5** | **400** |
| PHA-15-4B | **21042789-11C** | **POSITIVE STOP** | | | |
| PHA-15-4C | **21042789-12B** | **POSITIVE STOP** | | | |
| PHA-15-5A | **21042789-13D** | **Insufficent Material for Point Count** | | | |

Andrea Berrios
Laboratory Analyst

Shannon Whitmore
Asbestos Laboratory Supervisor

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| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (A) / Housing Authority | Project ID: | 21042789 |

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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| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/14/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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-17-2C | **21042792-6C** | **Off-White Texture** | **CHRY** | **1.75** | **400** |
| PHA-17-4B | **21042792-11E** | **Light Pink Compound with White Paint** | **CHRY** | **1.5** | **400** |
| PHA-17-6A | **21042792-14B** | **Off-White Compound** | **CHRY** | **4** | **400** |
| PHA-17-6A | **21042792-14C** | **Off-White Compound with Off-White Paint** | **CHRY** | **1.75** | **400** |
| PHA-17-6B | **21042792-15B** | **POSITIVE STOP** | | | |
| PHA-17-6B | **21042792-15E** | **POSITIVE STOP** | | | |
| PHA-17-6C | **21042792-16B** | **POSITIVE STOP** | | | |
| PHA-17-6C | **21042792-16E** | **POSITIVE STOP** | | | |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

AC = Actinolite
AM = Amosite
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| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (B) / Pueblo Housing Authority | Project ID: | 21042792 |

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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| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (C) / Pueblo Housing Authority | Project ID: | 21042795 |

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-19-7A | **21042795-16** | **Tan Texture with White Paint** | **CHRY** | **1.5** | **400** |
| PHA-19-7B | **21042795-17** | **POSITIVE STOP** | | | |

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/13/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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-21-4A | **21042796-10C** | **Tan Texture** | **CHRY** | **2.5** | **400** |
| PHA-21-4B | **21042796-11C** | **POSITIVE STOP** | | | |
| PHA-21-4C | **21042796-12C** | **POSITIVE STOP** | | | |

Thomas Harbour
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (D) / Pueblo Housing Authority | Project ID: | 21042796 |

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

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| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/14/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | Project ID: | 21042800 |

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-23-6A | **21042800-14B** | **White Texture with White Paint** | **CHRY** | **1.75** | **400** |
| PHA-23-6B | **21042800-15B** | **POSITIVE STOP** | | | |
| PHA-23-6C | **21042800-16A** | **POSITIVE STOP** | | | |

Paul Knappe
Laboratory Analyst

Shannon Whitmore
Asbestos Lab Supervisor

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

780 Simms Street
Suite 104
Golden, CO, 80401
303.232.3746
www.aerobiology.net

# Certificate of Analysis

NVLAP TESTING
NVLAP Lab Code 200860-0

| | | | |
|---|---|---|---|
| Client Name | All-Phase Environmental Consultants, Inc. | Date Collected: | 9/21/2021 |
| Street Address | 721 W. 9th St. | Date Received: | 9/27/2021 |
| City, State ZIP | Pueblo, CO 81003 | Date Analyzed: | 10/14/2021 |
| Attn: | Joey Cardenas | Date Reported: | 10/14/2021 |
| **Client Project Name:** | 21-4558 (E) / Pueblo Housing Authority | Project ID: | 21042800 |

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*

Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

Lab Use: 2642789

Page 1 of 2

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

| | | | | | |
|---|---|---|---|---|---|
| Aerobiology Client | All-Phase Environmental Consultants, Inc. | | | | |
| Field Contact | JOCY CARDENAS | Collected By/Date: JOCY CARDENAS 9-21-21 | Relinquished By/Date: JOCY CARDENAS 9-24-21 | | |
| Reporting Address | 721 W. 9th St., Pueblo, CO 81003 | Relinquished By/Date: | Received By/Date: Pam 9/27/21 | | |
| Billing Address | Same | Sampler Type: Andersen ☐ SAS ☐ | SampleAire ☐ AeroTrap ☐ | Other ☐ BioCulture ☐ | |
| Phone/Fax | 719-545-0375 | PO#/Job#: 21-4558 (A) | | | |
| Reporting Email (s) | Jocy @allphaseenvironmental.com | Project Name: HOUSING AUTHORITY | | | |
| Routine ☒ | 24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐ | Notes: Please send invoices to accounting@allphaseenvironmental.com | | | |
| SAMPLING LOCATION ZIP CODE | 81005 | CC Info: | | | |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 1 | PHA-15-1A | 3002 | ROLL TEXTURED PLASTER | |
| 2 | PHA-15-1B | | ↓ | |
| 3 | PHA-15-1C | | ↓ | |
| 4 | PHA-15-2A | | ROLL TEXTURED DRYWALL | |
| 5 | PHA-15-2B | | ↓ | |
| 6 | PHA-15-2C | | ↓ | |
| 7 | PHA-15-3A | | SMOOTH PLASTER | |
| 8 | PHA-15-3B | | ↓ | |
| 9 | PHA-15-3C | | ↓ | |
| 10 | PHA-15-4A | | TEXTURE ON CONCRETE | |
| 11 | PHA-15-4B | | ↓ | |
| 12 | PHA-15-4C | | ↓ | |
| 13 | PHA-15-5A | | COVE BASE / MASTIC | |
| 14 | PHA-15-5B | | ↓ | |
| 15 | PHA-15-6A | ↓ | 12 X 12 VCT FLOOR TILE / MASTIC | |

**LAB USE ONLY** (+)

A: AB 10/02/21

V: ———

Q: AG 10/4/21

| | |
|---|---|
| 015 | Culture - WATER Legionella |
| 017 | Culture - SWAB Legionella |
| 010 | WATER - Potable - E. coli/total coliforms |
| 012 | SWAB - E. coli/total coliforms |
| 028 | SWAB - Sewage Screen (E. coli/Entero/fecal coliforms) |
| 056 | WATER - Heterotrophic Plate Count |
| 001 | ASBESTOS - Point count |
| 002 | ASBESTOS - PLM Analysis |
| 003 | ASBESTOS - Particle characterization |
| 004 | ASBESTOS - PCM Analysis |

Was (87

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

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Lab Use: 2142789



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 | Joey CARDENAS |
| Phone/Fax | 719-545-0375 |
| Email | Joey @allphaseenvironmental.com |
| Collected By/Date: | 9-21-2022 |
| Relinquished By/Date: | J CARDENAS 9-24-2021 |
| PO#/Job#: | 21-4558(A) |
| Project Name: | HOUSING AUTHORITY |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 16 | PHA-15-6B | 3002 | 12X12 VCT FLOOR TILE /MASTIC | |
| 17 | PHA-15-7A | | WINDOW CAULKING | |
| 18 | PHA-15-7B | | ↓ | |
| 19 | PHA-15-8A | | STAIR RUNNER /MASTIC | |
| 20 | PHA-15-8B | | ↓ | |
| 21 | PHA-15-9A | | TSI HEAT BOARD | |
| 22 | PHA-15-9B | | ↓ | |
| 23 | PHA-15-9C | | ↓ | |
| 24 | PHA-15-10A | | ROLL TEXTURE PLASTER | |
| 25 | PHA-15-10B | | ↓ | |
| 26 | PHA-15-10C | | ↓ | |
| 27 | PHA-15-11A | | ROLL TEXTURE DRYWALL | |
| 28 | PHA-15-11B | | ↓ | |
| 29 | PHA-15-11C | | ↓ | |
| 30 | PHA-15-12A | | EXTERIOR BRICK /MORTAR | |
| 31 | PHA-15-12B | ↓ | ↓ | |
| 32 | PHA-15-8Q | | not on original COC pem 9/28/21 | |
| 33 | | | | |
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Lab Use: 2642792



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 | Joey 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: SCARDENAS 9-21-2021 | Relinquished By/Date: S CARDENAS 9-24-2021 |
| Relinquished By/Date: | Received By/Date: PDM 9/27/21 |
| Sampler Type: Andersen ☐ SAS ☐ | SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐ |
| PO#/Job#: 21-4558(B) | |
| 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-17-1A | 3002 | ROLL TEXTURED PLASTER | |
| 2 | PHA-17-1B | | ↓ | |
| 3 | PHA-17-1C | | ↓ | |
| 4 | PHA-17-2A | | ROLL TEXTURED DRYWALL | |
| 5 | PHA-17-2B | | ↓ | |
| 6 | PHA-17-2C | | ↓ | |
| 7 | PHA-17-3A | | SMOOTH TEXTURED PLASTER | |
| 8 | PHA-17-3B | | ↓ | |
| 9 | PHA-17-3C | | ↓ | |
| 10 | PHA-17-4A | | COVE BASE / MASTIC | |
| 11 | PHA-17-4B | | ↓ | |
| 12 | PHA-17-5A | | STAIR RUNNER / MASTIC | |
| 13 | PHA-17-5B | | ↓ | |
| 14 | PHA-17-6A | | TEXTURE ON CONCRETE | |
| 15 | PHA-17-6B | | ↓ | |

## LAB USE ONLY

A: TH 1-9✓ 10-23 24-33✓ MS 10/5/21

V: _____

Q: AG 10/5/21

| | |
|---|---|
| 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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NVLAP AZ, CA, CO, VA

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

| Aerobiology Client | All-Phase Environmental Consultants, Inc. | | |
|---|---|---|---|
| Field Contact | Socy CARDENAS | Collected By/Date: SCARDENAS 9-21-21 | Relinquished By/Date: SCARDENAS 9-24-2021 |
| Phone/Fax | 719-545-0375 | PO#/Job#: 21-4558(B) | |
| Email | Socy @allphaseenvironmental.com | Project Name: PUEBLO HOUSING AUTHORITY | |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 16 | PHA-17-6C | 3002 | TEXTURE ON CONCRETE | |
| 17 | PHA-17-7A | | 12X12 VCT FLOOR TILES /MASTIC | |
| 18 | PHA-17-7B | | ↓ | |
| 19 | PHA-17-8A | | WINDOW CAULKING | |
| 20 | PHA-17-8B | | ↓ | |
| 21 | PHA-17-9A | | ROLL TEXTURED PLASTER | |
| 22 | PHA-17-9B | | ↓ | |
| 23 | PHA-17-9C | | ↓ | |
| 24 | PHA-17-10A | | ROLL TEXTURED DRYWALL | |
| 25 | PHA-17-10B | | ↓ | |
| 26 | PHA-17-10C | | ↓ | |
| 27 | PHA-17-11A | | TSI HEAT BOARD | |
| 28 | PHA-17-11B | | ↓ | |
| 29 | PHA-17-11C | | ↓ | |
| 30 | PHA-17-12A | | ROCK WOOL INSULATION | |
| 31 | PHA-17-12B | | ↓ | |
| 32 | PHA-17-2B | | Duplicate sample ID | |
| 33 | PHA-17-8Q | | not on original COC pam 9/28/21 | |
| 34 | | | | |
| 35 | | | | |
| 36 | | | | |
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Lab Use: 21042795



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 | Joey 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 | 81005 |

| | |
|---|---|
| Collected By/Date: JCARDENAS 9-21-21 | Relinquished By/Date: JCARDENAS 9-24-2021 |
| Relinquished By/Date: | Received By/Date: Pam 9/27/21 |
| Sampler Type: Andersen ☐ SAS ☐ | SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐ |
| PO#/Job#: 21-4558(C) | |
| 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-19-1A | 3002 | ROll TEXTURED PLASTER | |
| 2 | PHA-19-1B | | ↓ | |
| 3 | PHA-19-1C | | ↓ | |
| 4 | PHA-19_2A | | ROll TEXTURED DRYWALL | |
| 5 | PHA-19-2B | | ↓ | |
| 6 | PHA-19-2C | | ↓ | |
| 7 | PHA-19-3A | | SMOOTH TEXTURED PLASTER | |
| 8 | PHA-19_3B | | ↓ | |
| 9 | PHA-19_3C | | ↓ | |
| 10 | PHA-19_4A | | 12X12 VCT FLOOR TILE /MASTIC | |
| 11 | PHA-19_4B | | ↓ | |
| 12 | PHA-19_5A | | COVE BASE MASTIC | |
| 13 | PHA-19_5B | | ↓ | |
| 14 | PHA_19-6A | | WINDOW CAULKING | |
| 15 | PHA-19-6B | ↓ | | |

**LAB USE ONLY**

A: Pam 1-9-21 DC+ 10-17 10/6/21 +

V: —

Q: AG 10/6/21

| | |
|---|---|
| 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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Page 2 of 2

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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 | JOCY CARDENAS | Collected By/Date: J CARDENAS 9-21-21 | Relinquished By/Date: J CARDENAS 9-24-21 |
| Phone/Fax | 719-545-0375 | PO#/Job#: 21-4558(C) | |
| Email | JOCY @allphaseenvironmental.com | Project Name: PUEBLO HOUSING AUTHORITY | |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 16 | PHA-19-7A | 3002 | TEXTURE ON CONCRETE | |
| 17 | PHA-19-7B | ↓ | ↓ | |
| 18 | PHA-19-7C | ↓ | sample not received pam 9/28/21 | |
| 19 | | | | |
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Lab Use: 21042796



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 | Jocy CARDENAS | Collected By/Date: JCARDENAS 9-21-21 | Relinquished By/Date: JCARDENAS 9-24-2021 |
| Reporting Address | 721 W. 9th St., Pueblo, CO 81003 | Relinquished By/Date: | Received By/Date: Pam 9/27/21 |
| Billing Address | Same | Sampler Type: Andersen ☐ SAS ☐ | SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐ |
| Phone/Fax | 719-545-0375 | PO#/Job#: 21-4558(D) | |
| Reporting Email (s) | Jocy @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 | 81005 | CC Info: | |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 1 | PHA-21-1A | 3002 | ROLL TEXTURE PLASTER | |
| 2 | PHA-21-1B | | | |
| 3 | PHA-21-1C | | | |
| 4 | PHA-21-2A | | ROLL TEXTURE DRYWALL | |
| 5 | PHA-21-2B | | | |
| 6 | PHA-21-2C | | | |
| 7 | PHA-21-3A | | SMOOTH TEXTURE PLASTER | |
| 8 | PHA-21-3B | | | |
| 9 | PHA-21-3C | | | |
| 10 | PHA-21-4A | | TEXTURE ON CONCRETE | |
| 11 | PHA-21-4B | | | |
| 12 | PHA-21-4C | | | |
| 13 | PHA-21-5A | | COVE BASE/MASTIC | |
| 14 | PHA-21-5B | | | |
| 15 | PHA-21-6A | | 12X12 VCT FLOOR TILE/MASTIC | |

## LAB USE ONLY

A: Pam 1-9 ⊖ TH+ 10-16 mg 17-25 10/6/21 (+)

V: —

Q: AG 10/6/21

| | |
|---|---|
| 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: 21042796



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 | Joey CARDENAS |
| Phone/Fax | 719-545-0375 |
| Email | Joey @allphaseenvironmental.com |
| Collected By/Date: | J CARDENAS 9-24-21 |
| Relinquished By/Date: | J CARDENAS |
| PO#/Job#: | 21-4558(D) |
| Project Name: | PUEBLO HOUSING AUTHORITY |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 16 | PHA-21-6B | 3002 | 12X12 VCT FLOOR TILE IMASTIC | |
| 17 | PHA-21-7A | | STAIR RUNNER/MASTIC | |
| 18 | PHA-21-7B | | ↓ | |
| 19 | PHA-21-8A | | ROLL TEXTURE DRYWALL | |
| 20 | PHA-21-8B | | ↓ | |
| 21 | PHA-21-8C | | ↓ | |
| 22 | PHA-21-8C | | ↓ | |
| 23 | PHA-21-9A | | ROLL TEXTURE PLASTER | |
| 24 | PHA-21-9B | | ↓ | |
| 25 | PHA-21-9C | | ↓ | |
| 26 | | | | |
| 27 | | | | |
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Expertise Since 1997

Lab Use: 21042800

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 | Joey 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 | 81005 |

| | |
|---|---|
| Collected By/Date: | J CARDENAS 9-21-21 |
| Relinquished By/Date: | |
| Sampler Type | Andersen ☐ SAS ☐ SampleAire ☐ AeroTrap ☐ Other ☐ BioCulture ☐ |
| PO#/Job#: | 21-4558(E) |
| Project Name: | PUEBLO HOUSING AUTHORITY |
| Notes: | Please send invoices to accounting@allphaseenvironmental.com |
| CC Info: | |

| | Relinquished By/Date: | Received By/Date: |
|---|---|---|
| | J CARDENAS 9-24-21 | POM 9/27/21 |

| Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|
| 1 PHA-23-1A | 3002 | ROLL TEXTURED PLASTER | |
| 2 PHA-23-1B | | | |
| 3 PHA-23-1C | | | |
| 4 PHA-23-2A | | ROLL TEXTURED DRYWALL | |
| 5 PHA-23-2B | | | |
| 6 PHA-23-2C | | | |
| 7 PHA-23-3A | | SMOOTH PLASTER | |
| 8 PHA-23-3B | | | |
| 9 PHA-23-3C | | | |
| 10 PHA-23-4A | | STAIR RUNNER / MASTIC | |
| 11 PHA-23-4B | | | |
| 12 PHA-23-5A | | COVE BASE / MASTIC | |
| 13 PHA-23-5B | | | |
| 14 PHA-23-6A | | TEXTURE ON CEMENT | |
| 15 PHA-23-6B | | | |

**LAB USE ONLY**

A: PK (+) 10/6/21 1-9 10-18 19-28

V: _____

Q: AG 10/6/21

| | |
|---|---|
| 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: 21042800

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 | Joey CARDENAS |
| Phone/Fax | 719-545-0375 |
| Email | Joey @allphaseenvironmental.com |
| Collected By/Date: | SCARDENAS 9-2-21 |
| Relinquished By/Date: | SCARDENAS - 9-24-21 |
| PO#/Job#: | 21-4558 (E) |
| Project Name: | PUEBLO HOUSING AUTHORITY |

| | Sample No. | Test Code | Sample Location | Total Volume/Area |
|---|---|---|---|---|
| 16 | PHA-23-6C | 3002 | TEXTURE ON CEMENT | |
| 17 | PHA_23-7A | | 12X12 VCT FLOOR TILE /MASTIC | |
| 18 | PHA-23-7B | | ↓ | |
| 19 | PHA-23-8A | | ROLL TEXTURE DRYWALL | |
| 20 | PHA-23-8B | | ↓ | |
| 21 | PHA-23-8C | | ↓ | |
| 22 | PHA-23-8C | | ↓ | |
| 23 | PHA-23-9A | | ROLL TEXTURED PLASTER | |
| 24 | PHA-23-9B | | ↓ | |
| 25 | PHA-23-9C | | ↓ | |
| 26 | PHA-23-10A | | SMOOTH PLASTER | |
| 27 | PHA-23-10B | | ↓ | |
| 28 | PHA-23-10C | | ↓ | |
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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

# Acclaim Environmental Services, Inc.

Innovative Strategies | Effective Solutions

7959 Ulster Court, Thornton, Colorado 80602
Tel: 303.424.4647
www.acclaim-enviro.com
acclaim-enviro@comcast.net


**CERTIFIES THAT**

## JOSEPH CARDENAS

Has successfully completed

The **EPA-Approved AHERA Annual Refresher Course** for

**INSPECTOR**

This course is EPA-approved under Section 206 of the Toxic Substances Control Act (TSCA), Title II, and meets the requirements of Colorado Regulation No. 8.

| | |
|---|---|
| Course Date: | 05/19/2021 |
| Exam Date: | N/A |
| Certificate No.: | AE21-033-BI-R-04 |
| Expiration Date: | 05/19/2022 |

K. Jay Gale

**K. Jay Gale, President**

CO Live-Remote – COVID-19

*Acclaim Environmental is committed to providing high quality asbestos training, consulting, and environmental services, providing insight, innovative strategies, and effective solutions.*

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<br>50 linear feet<br>The volume of a 55-gallon drum |
| All other areas excluding a SFRD - | 160 square feet<br>260 linear feet<br>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.