

# ASBESTOS ABATEMENT SPECIFICATION

**Barrientes CTE Building  
1100 East Ebony Lane  
Edinburg, Texas 78504**

**November 29, 2023  
Terracon Project Number: 88237289**

**Prepared For:**  
Edinburg CISD  
Edinburg, Texas 78540

**Prepared by:**  
Terracon Consultants, Inc.  
Consulting Engineers & Scientists  
Pharr, Texas 78577  
(956) 283-8254  
TDSHS Consultant Agency License No. 100157



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Eloy Palacios  
Individual Asbestos Consultant  
TDSHS License No. 105727  
Expires 11/7/2024

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**Terracon**

Environmental



Facilities



Geotechnical



Materials

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### ADDENDA

**Abatement Drawing**  
**Asbestos Inspection Report**

## SCOPE OF WORK - ASBESTOS ABATEMENT

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Asbestos abatement will be accomplished in one phase. Asbestos abatement is to be conducted in interior spaces to accommodate renovation activities.

### I. Material, Quantity and Location

The work will consist of the removal of the following materials in the approximate quantities listed at the site. All work will be conducted by properly licensed personnel in accordance with applicable Federal, State and Municipal regulations. ***(The quantities listed below are estimates only. The Contractor is responsible for verifying locations and quantities prior to submission of the price quote to the Owner. The Contractor will perform work for the materials indicated, regardless of actual quantities.)***

- Resilient Floor Tile and Mastic– The green, 1' x 1' floor tile with white specks and black mastic utilized on the floor throughout the Lounge of the Barrientes Career Center Building was found to contain 10% Chrysotile asbestos in the floor tile and 5% Chrysotile asbestos in the black mastic. The asbestos-containing flooring materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 275 square feet of these materials on the floor throughout the Lounge of the Barrientes Career Center Building.
- Drywall Construction – The white drywall construction with smooth texture utilized on the ceilings in the Men's and Women's Restrooms and Janitor's Closet (west of the Lounge) and CC-15 Boys and Girl's Restrooms of the Barrientes Career Center Building was found to contain 2% Chrysotile asbestos in the texture. The asbestos-containing wall materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 560 square feet of these materials on the ceilings in the Men's and Women's Restrooms and Janitor's Closet (west of the Lounge) and CC-15 Boys and Girl's Restrooms of the Lounge of the Barrientes Career Center Building.
- Cement Board – The cement board utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, CC-6, CC-9A, CC-11, CC-14, two Hallways, Exit (adjacent to Restrooms), and Lobby Entrance of the Barrientes Career Center Building was found to contain 15% Chrysotile asbestos. The asbestos-containing cement board materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 135 square feet of these materials on select upper door frames of the Barrientes Career Center Building.

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- Resilient Floor Tile and Mastic – The beige, 1' x 1' floor tile with white specks and black mastic utilized on the majority of the floors in CC-2 Office, CC-3 Office, CC-4 Office, CC-9A Office, CC-9B, CC-10, CC-10 Office, CC-10 Storage, CC-11 Open Space, CC-11 Office, Office (adjacent to CC-11), CT Work Room, CC-15 Office (two layers of tile), CC-23, CC-24, CC-25, CC-26, Hallway (adjacent to CC-23), and is assumed to be beneath millwork and walls, and residual mastic may be in the remaining portions of the Barrientes Career Center Building was found to contain 5% Chrysotile asbestos in the floor tile and 5% Chrysotile asbestos in the black mastic. The asbestos-containing flooring materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 7,000 square feet of these materials within Barrientes Career Center Building.
- HVAC Duct Mastic – The black mastic utilized on the HVAC ducts above the ceiling grid in the CC-9A Office, CC-9B, CC-10, CC-11 Office, CC-11 Open Space, CC-13, CC-13 Lab, CC-20, CC-21, CC-24, CC-25, CC-26, and select Hallways of the Barrientes Career Center Building was found to contain 5% Chrysotile asbestos. The asbestos-containing HVAC duct mastic materials identified were noted to be in good condition and were assessed as being friable. It is estimated that there exists approximately 850 linear feet of these materials above the ceiling grid in CC-9A Office, CC-9B, CC-10, CC-11 Office, CC-11 Open Space, CC-13, CC-13 Lab, CC-20, CC-21, CC-24, CC-25, CC-26, and select Hallways of the Barrientes Career Center Building.
- Pipe Insulation with Mastic – The pipe insulation with black mastic observed above the ceilings and is assumed to be within walls of the Barrientes Career Center Building was assumed to contain Chrysotile asbestos. The assumed asbestos-containing pipe insulation mastic materials identified were noted to be in good condition and were assessed as being friable. It is estimated that there exists approximately 250 linear feet of these materials within the Barrientes Career Center Building.

## II. Work Practices

### A. Respiratory Protection:

During the removal of the asbestos-containing materials, the workers will be required to wear as a **minimum**, half-face respirators equipped with filter cartridges designed for asbestos-containing dusts and mists, vapors, and color coded in accordance with ANSI Z228.2 (1980). Certification that the workers have been fit tested in accordance with current OSHA guidelines will be provided as part of Worker Documentation. In addition, the half-face respirator asbestos cartridges will be piggy backed with organic filters if the submitted MSDS for any mastic removal solvent indicates the need.

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**The abatement Contractor shall ensure use of appropriate respiratory protection for the work being performed and recognizes that these requirements are only minimum acceptable standards.** The Contractor will furnish respirator filter cartridges as required by the **Consultant**.

## **B. Protective Clothing**

During removal of the interior asbestos-containing materials, single protective suits, as a minimum, will be worn by the workers and boots, gloves, eye protection and hard hats will be available to each worker as needed. Each suit will be properly disposed of at the conclusion of each work period. The **Contractor** will furnish protective suits for the **Consultant's** use during the project.


The workers performing the abatement will decontaminate through a three-chambered wet decontamination system which will be constructed as an integral part of the containment.

During removal of the exterior asbestos-cement materials, double protective suits will be worn by the workers and boots and gloves will be available to each worker as needed. The workers will remove the outer suit within the regulated work area and will proceed directly to the decontamination area. Each suit will be properly disposed of at the conclusion of the work period. The workers performing the abatement will decontaminate through a single-chambered wet decontamination system which will be constructed in a remote location easily accessible by workers who will proceed to the decontamination area after removing the outer suit within the regulated work area.

## **C. Containment**

Removal of the interior asbestos-containing HVAC duct insulation with mastic and pipe insulation with mastic materials may be conducted by the Glove-bag Method within a regulated area or if the **Contractor** elects, removed using wet removal techniques under negative pressure within a contained area which has an integral three-chamber wet decontamination unit.

A full containment consisting of a double layer of 4-mil poly covering all walls and a double layer of 6-mil poly covering all floor areas not scheduled for removal shall be constructed within the building in all areas scheduled for asbestos removal. Critical barriers consisting of 6-mil poly will be installed on all building openings. Inverted prep will not be required, however, secondary prep above any ceiling areas to be removed may be necessary to maintain negative pressure (minimum of  $-0.020$  in/H<sup>2</sup>O) in all work areas throughout abatement activities.

  
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A functioning manometer will be required to show proof of appropriate pressure. Any remaining furnishings and/or contents will be removed from the work area prior to commencement of work.

The **Contractor** will construct a three-chambered wet decontamination system consisting of a serial arrangement of connected rooms or spaces (Changing Room, Shower Room, and Equipment Room), with overlapping door flaps, constructed as an integral part of any containment. The Decontamination System shower chamber will consist of a hard enclosure with drain and water supply fittings designed for the purpose rather than a disposable/pop up chamber. Disposable/pop up chamber units are acceptable for the clean and dirty room portions of the decontamination system.

The **Contractor** shall require all persons without exception to pass through this decontamination unit for entry into and exiting from the work area for any purpose. Do not allow parallel routes for entry or exit.

Changing Room (clean room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing. Construct using polyethylene sheeting, at least 6-mil in thickness, to provide an airtight seal between the Changing Room and the rest of the building. Locate so that access to Work Area from Changing Room is through Shower Room. Separate Changing Room from the building by a polyethylene overlapping flapped doorway.

Maintain the floor of the changing room in a dry and clean condition at all times. Do not allow overflow water from shower to wet the floor in the changing room. Damp wipe all surfaces twice after each shift change with a disinfectant solution.

Provide a continuously adequate supply of disposable bath towels.

Provide all mandated warning signage, and posted information for all emergency phone numbers and procedures.

Shower Room: Provide a completely watertight, design built operational shower to be used for transit by appropriately dressed workers heading into the Work Area from the Changing Room, or for showering by workers headed out of the Work Area after undressing in the Equipment Room.

Construct room by providing a shower pan and 2 shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining floor in the shower pan at an elevation that is at the top of pan.

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Separate this room from the Changing and Equipment Rooms with moveable overlapping flaps fabricated of 6-mil polyethylene.

Provide splash-proof entrances to Changing and Equipment Rooms with 2 doors arranged in the following configuration:

At each entrance to the Shower Room construct a doorframe out of lumber, PVC Pipe or equivalent. Attach to this door frame two overlapping flaps fastened at the head (top) and jambs (sides). Overlap the flaps that present a shingle-like configuration to the water stream from the shower. Arrange so that any air movement out of the Work Area will cause the flaps to seal against the door frame. Provide shower head and controls. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.

Provide a continuously adequate supply of soap and maintain the area in a sanitary condition. Arrange so that water from showering does not splash into the Changing or Equipment Rooms.

Provide flexible hose showerhead. Pump wastewater to a sanitary sewer drain or to storage for use in amended water. If pumped to a sanitary sewer drain, provide 20-micron and 5-micron wastewater filters in line to drain or waste water storage. Change filters daily or more often if necessary. Provide Hose Bib.

Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers. Separate this room from the work area by a 6-mil polyethylene overlapping flap doorway. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene. Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6 mil overlapping flapped polyethylene.

Work Area: Separate work area from the Equipment Room by polyethylene barriers. If the airborne asbestos level in the work area is expected to be high, add an intermediate cleaning space between the Equipment room and the Work area. Damp wipe clean all surfaces after each shift change. Provide one additional floor layer of 6-mil polyethylene per shift change and remove contaminated layer after each shift.

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**Waste Load Out Area:** where applicable, the **Contractor** will construct a waste load out chamber separately from the three chambered personnel decontamination unit. The waste load out chamber will be connected to the work area, and ingress and egress will be through an overlapping flapped doorway constructed of 6-mil polyethylene sheeting. The exit of the waste load out area will also be constructed with 6-millimeter polyethylene overlapping flapped doorway. The water generated during the waste load out procedures as a result of cleaning the outside of the bags will be properly filtered and/or containerized prior to discharge into the sanitary sewer.

**In exterior regulated areas where asbestos-containing cement board materials will be removed,** the work area will be Regulated with appropriate barrier tape and the Contractor shall display all appropriate OSHA and TDSHS signage. The Workers shall be in proper protective equipment and decontaminate through a wet decontamination unit erected in a central location accessible to the workers. The materials will be removed in an exterior regulated area with a double layer of 6-mil polyethylene covering the area in the vicinity/below the work areas utilizing wet methods.

#### **D. Removal**

The **Contractor** will perform the removal and disposal in accordance with current local, state and federal regulations.

- 1. Asbestos-Containing Resilient Floor Tile and/or Residual Mastic Materials:**  
Comply with wet removal procedures. Removal shall be accomplished under negative pressure within a contained area which has an integral three-chamber wet decontamination unit. The full containment will consist of a double layer of 4-mil poly covering all walls not scheduled for removal and a double layer of 6-mil poly covering all floor areas not scheduled for removal within the contained area. **In areas where the only materials to be removed are flooring and the walls are moisture resistant and may be wet wiped, a modified containment may be utilized. The modified containment will consist of a single layer of 6-mil poly covering the lower four (4) feet of all wall areas within the contained area.** Critical barriers consisting of 6-mil poly will be installed on all building openings. Additional critical barriers (single layer of 4-mil.) will be required if ceilings which consist of porous materials (i.e. spray-on texturizer and suspended acoustical ceiling tile). Negative pressure (minimum of  $-0.020$  in/H<sup>2</sup>O) will be maintained in all work areas. A functioning manometer will be required to show proof of appropriate pressure. Any remaining furnishings and/or contents will be removed from the work area prior to commencement of work.



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If any carpeting is glued directly on floor tile and/or mastic, it will be treated as asbestos-containing materials. If any areas of carpeting are installed by tack strips and can be removed without disturbing the underlying floor tile and/or mastic, they can be removed as general construction debris prior to starting the abatement.

The asbestos-containing flooring materials will be addressed as follows: Spray the asbestos-containing flooring materials with amended water or removal encapsulant. During the removal of the flooring materials, continual wetting of the material will occur. Mastic materials will be removed with selected mastic remover and/or by manual methods. A buffer may be used to remove the mastic. The removed materials will be placed in disposable bags as soon as practical, and no later than the end of the work period. Loose (unbagged) waste materials will not remain in the work area after the end of the work shift. The clean substrate surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. The waste resulting from the removal operations will be double bagged, labeled and disposed of in accordance with the guidelines discussed in Item E of this section. **If woven poly or burlap bags (onion sacks) are utilized for bagging of waste materials, the woven bags will be double bagged in proper poly disposal bags prior to removal from the containment for loading into the waste receptacle.** All regulated area/containment teardown materials will be treated as ACM.

### RFCI OPTION

In areas where only small quantities of floor tile and mastic are present (<100 Square Feet), the abatement contractor may conduct removal utilizing the Resilient Floor Covering Institute (RFCI) removal protocol. The workers performing the RFCI Method removal shall have training in the method and be licensed Asbestos Abatement Workers. The workers shall conform to all respiratory protection and protective clothing requirements of the asbestos abatement specification and shall be required to follow typical remote decontamination protocol following removal in any area where the RFCI method is performed.

- 2. Asbestos-Containing Drywall Construction Materials:** Comply with wet removal procedures. Removal shall be accomplished under negative pressure within a contained area which has an integral three-chamber wet decontamination unit. The full containment will consist of a double layer of 4-mil poly covering all walls not scheduled for removal and a double layer of 6-mil poly covering all floor areas not scheduled for removal within the contained area. Floor prep (two layers of 6-mil polyethylene) shall be run approximately 12 inches up the wall and behind the wall prep in locations where wall construction is to remain.



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The two layers of 4-mil polyethylene wall prep shall extend below the top of the floor prep layers and be taped in a continuous line above the floor level. In areas where wall or ceiling construction is to be removed, the lower layer of 6-mil floor polyethylene shall terminate approximately one inch out from the base of the wall and the floor polyethylene shall be secured to the floor substrate at the base of the wall in a continuous line to prevent water/debris from migrating under the floor prep layers as the lower portions of the wall are removed. An additional single layer of 6-mil polyethylene may be secured with tape and/or spray adhesive atop any floor areas as a drop sheet. Critical barriers consisting of 6-mil poly will be installed on all building openings. Inverted prep will likely not be required, however negative pressure (minimum of -0.020 in/H<sub>2</sub>O) will be maintained in all work areas. A functioning manometer will be required to show proof of appropriate pressure. **Where specified for removal, the drywall construction materials will be removed in their entirety including any associated insulation and/or fastening devices and disposed of as ACM.**

The drywall construction materials will be addressed as follows: Spray asbestos-containing materials with amended water or removal encapsulant. During the removal of the drywall construction materials, continual wetting of the material will occur. The drywall construction materials will be removed as intact as possible. Exposed nail heads or hangers will be removed with the drywall construction materials. The removed materials will be placed in disposable bags or wrapped in poly as soon as practical, and no later than the end of the work period. Loose (unbagged) waste materials will not remain in the work area after the end of the work shift. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. The waste resulting from the removal operations will be double bagged, labeled and disposed of in accordance with the guidelines discussed in Item E of this section. **If woven poly or burlap bags (onion sacks) are utilized for bagging of waste materials, the woven bags will be double bagged in proper poly disposal bags prior to loading into the waste receptacle.** All regulated area/containment teardown materials will be treated as ACM.

- 3. Asbestos-Containing Cement Panel Board Removal:** These materials are intended to be removed with wet removal techniques and are to remain intact with as little disturbance as possible. Workers shall be in proper protective equipment and decontaminate through three-chamber decontamination chamber erected in a central location accessible to the workers. The materials will be removed in an exterior regulated area with a single layer of 6-mil polyethylene covering the area in the vicinity/below the work areas. Critical barriers consisting of two layers of 6-mil poly will be installed on the interior of any door frames where the cement board



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panels are scheduled for removal.

The cement board panel materials will be addressed as follows: Spray asbestos-containing material with amended water or removal encapsulant. During the removal of the cement fiber board panel material, continual wetting of the material will occur. If intact removal techniques require the removal of an interior bracket. The fasteners for the bracket shall be removed prior to the installation of the critical barriers, and once the critical barrier is installed, the bracket and panel shall be removed to the outside of the building within a regulated area. Exposed nails, screws, hangers and other fastening devices will be removed with the cement fiber board material. The debris which accumulates on the drop cloths shall be kept wet and placed into disposal bags as soon as practical. Cement board panel openings shall be HEPA vacuumed following removal of each panel. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative and prior to removal of any critical barriers. All resulting waste will be disposed of in accordance with the guidelines discussed in Item E of the specification.

- 4. Asbestos-Containing HVAC Duct Mastic Materials:** Comply with wet removal procedures. Removal shall be accomplished under negative pressure within a contained area which has an integral three-chamber wet decontamination unit. The full containment will consist of a double layer of 4-mil poly covering all walls not scheduled for removal and a double layer of 6-mil poly covering all floor areas not scheduled for removal within the contained area. Where specified for removal, these materials will be removed in their entirety and disposed of as ACM. **Ceiling tile and associated metal grid and batt insulation shall be removed and disposed of as normal construction debris, prior to the commencement of abatement work.** Where specified for removal, the HVAC duct mastic materials will be removed in their entirety including all associated insulation, fastening devices/hangers and disposed of as ACM. Any residual black mastic observed on the metal duct and/or substrate areas adjacent to the HVAC ducts will also be removed and disposed of as ACM.

The HVAC duct mastic materials will be addressed as follows: Spray the asbestos-containing mastic materials with amended water or removal encapsulant. During the removal of the HVAC duct mastic materials, continual wetting of the material will occur. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. The removed materials will be placed in disposable bags or wrapped in two layers of 6-mil poly as soon as practical, and no later than the end of the work period. Loose (unbagged) waste materials will not remain in the work area after the end of the work shift. The clean surfaces will be encapsulated after passing a visual inspection conducted by a

  
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The waste resulting from the removal operations will be double-bagged, labeled and disposed of in accordance with the guidelines discussed in item E of this section. All regulated area/containment teardown materials will be treated as ACM.

**Added Procedure for Component Removal of HVAC Duct Mastic Materials:**

The Contractor may elect to wrap select asbestos-containing HVAC Duct insulation materials in two (2) layers of 6-mil polyethylene and dismantle the HVAC Duct into manageable sections. All breaks in the HVAC Duct where ACM duct mastic is present shall be made within a containment as specified above. The asbestos-containing HVAC duct mastic on metal duct and/or substrate materials shall be removed in their entirety. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. The waste resulting from the removal operations will be double wrapped and/or bagged, labeled and disposed of in accordance with the guidelines discussed in Item E of this section. All regulated area/containment teardown materials will be treated as ACM.

**Asbestos-Containing HVAC Duct Insulation with Mastic Materials (Glove-Bag Method):** The **Contractor** may elect to utilize the Glove-bag Method of removal where practical. The **Contractor** will not be responsible for capping any duct fittings, as it is intended that removal operations shall not disturb any ducting itself which will remain intact until reused/terminated by others.

It is intended that the cutting and/or removal of any HVAC duct insulation with mastic will be conducted utilizing wet methods in manufactured Glove-bag enclosures within regulated areas and the material is to remain largely intact during the removal process. Negative pressure will not be maintained in the regulated work areas; however, the Contractor shall utilize HEPA equipped air filtration equipment in the vicinity of the work areas for air scrubbing. A remote single-chamber wet decontamination system will be constructed in a central location accessible from the work area. Critical barriers consisting of 6-mil poly shall be installed on all building openings in the vicinity of the removal areas where applicable. Once the regulated work area has been established, the ground areas below and adjacent to the HVAC duct runs shall be pre-cleaned prior to installation of the glove-bag enclosures and removal activities. A double layer of 6-mil polyethylene (drop cloth) shall be installed below all areas of HVAC duct insulation with mastic which will be removed by the glove-bag method.



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The Glove-bag removal work area(s) will be regulated with barrier tape and appropriate signage shall be placed on the work area entry.

Install critical barriers on windows and doors that will not be utilized during removal operations. Drop sheets will be installed in the areas below the HVAC duct insulation with mastic which will be removed. Place drop sheets in a manner which will cover the area below the glove-bag(s) and any area where workers stand when working within the glove-bag.

Check HVAC duct insulation where the work will be performed. Wrap damaged (broken lagging, hanging, etc.), HVAC duct insulation in 6-mil plastic and "candy-stripe" with adhesive tape. Place one layer of adhesive tape around undamaged insulation at each end where the Glove-bag will be attached. Glove-bags shall not be used when surface temperatures exceed 150 degrees F.

Slit top of the Glove-bag open (if necessary) and cut down the sides to accommodate the size of the HVAC duct (about two inches longer than the HVAC duct diameter). Place necessary tools into the pouch located inside the Glove-bag. This will usually include: bone saw, utility knife, rags, scrub brush, wire cutters, tin snips and pre-wetted cloth. Place one strip of adhesive tape along the edge of the open top slit of Glove-bag for reinforcement.


Place the Glove-bag around section of HVAC duct to be worked on, then staple top together through reinforcing adhesive tape. Next, adhesive tape the ends of Glove-bag to HVAC duct itself, where previously covered with plastic or adhesive tape.

Test the seal of each glove bag with a smoke tube and aspirator bulb. Place tube into water sleeve (two-inch opening to Glove-bag) squeezing bulb and filling bag with visible smoke. Remove smoke tube and twist water sleeve closed. While holding the water sleeve tightly, gently squeeze Glove-bag and look for smoke leaking out (especially at top and ends of the Glove-bag). If leaks are found, make repairs using adhesive tape and re-test.

Remove HVAC duct insulation from inside the Glove-bag as follows:

Insert wand from garden sprayer through water sleeve. Adhesive tape water sleeve tightly around the wand to prevent leakage.

**Two workers are required to operate each glove-bag.** One person places his hands into the long-sleeved gloves while the second person directs the water source at the work, operates the HEPA vacuum, and provides assistance as

  
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necessary to complete the removal operation(s).

Thoroughly wet insulation with water or removal encapsulant and allow to soak in. Wet adequately to penetrate and soak material through to substrate. Use a bone saw, if required, to cut insulation at each end of the section to be removed. A bone saw is a serrated heavy gauge wire with ring-type handles at each end. Throughout this process, spray amended water or removal encapsulant on the cutting area to keep dust to a minimum. Remove insulation using retractable blade knives, putty knives, wire brushes or other tools. Place pieces of insulation in the bottom of bag without dropping.

Seal exposed ends of remaining HVAC duct insulation from inside the Glove-bag.


Rinse tools with water inside the bag and place back into pouch. Using scrub brush, rags and water, scrub and wipe down the exposed HVAC duct. Remove water wand from water sleeve and attach the small nozzle from HEPA-filtered vacuum. Turn on the HEPA vacuum and fully collapse the glove-bag. Remove the vacuum nozzle, twist water sleeve closed and seal with adhesive tape.

From outside the Glove-bag, pull the tool pouch away from the bag. Place adhesive tape over twisted portion and then cut the tool bag from the Glove-bag, cutting through the twisted-taped section. Contaminated tools may then be placed directly into next Glove-bag without cleaning. Alternatively, tool pouch with the tools can be placed in a bucket of water, opened underwater, and tools cleaned and dried. Discard rags and scrub brush with asbestos waste.

**Sliding a Glove-bag from one removal section to another is prohibited.** If more than one adjacent section of HVAC duct insulation is to be removed, a continuous string of Glove-bags or a new Glove-bag must be used for each section.

The removed Glove-bag shall be placed in a second disposal bag prior to being removed from the regulated work area. The bags shall have generator labels attached before being transferred to the prepared waste receptacle. All resulting waste will be disposed as described in item E of this section. All regulated area/containment teardown materials will be treated as ACM.

- 5. Asbestos-Containing Pipe Insulation with Black Mastic Materials:** Comply with wet removal procedures. Removal shall be accomplished under negative pressure within a contained area which has an integral three-chamber wet decontamination unit. The full containment will consist of a double layer of 4-mil poly covering all walls not scheduled for removal and a double layer of 6-mil poly

  
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covering all floor areas not scheduled for removal within the contained area. The pipe insulation materials will be removed in their entirety and disposed of as **ACM**. The pipe insulation materials will be addressed as follows: Spray the asbestos-containing pipe insulation materials with amended water or removal encapsulant. The **Contractor** shall wrap select asbestos-containing pipe insulation materials in two (2) layers of 6-mil polyethylene and dismantle the pipe insulation into manageable sections. During the removal of the pipe insulation materials, continual wetting of the materials will occur. The asbestos-containing pipe insulation materials shall be removed in their entirety. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. Loose (unbagged) waste materials will not remain in the work area after the end of the work shift. The waste resulting from the removal operations will be double wrapped and/or bagged, labeled and disposed of in accordance with the guidelines discussed in Item E of this section. All regulated area/containment teardown materials will be treated as ACM.

**6. Asbestos-Containing Pipe Insulation Materials (Glove-Bag Method):** The **Contractor** may elect to utilize the Glove-bag Method of removal where practical. It is intended that the cutting and/or removal of any pipe insulation will be conducted utilizing wet methods in manufactured Glove-bag enclosures within regulated areas and the material is to remain largely intact during the removal process. Negative pressure will not be maintained in the regulated work areas; however, the Contractor shall utilize HEPA equipped air filtration equipment in the vicinity of the work areas for air scrubbing. A remote single-chamber wet decontamination system will be constructed in a central location accessible from the work area. Critical barriers consisting of 6-mil poly shall be installed on all building openings in the vicinity of the removal areas where applicable. Once the regulated work area has been established, the ground areas below and adjacent to the pipe insulation runs shall be pre-cleaned prior to installation of the glove-bag enclosures and removal activities. A double layer of 6-mil polyethylene (drop cloth) shall be installed below all areas of pipe insulation which will be removed by the glove-bag method.

The Glove-bag removal work area(s) will be regulated with barrier tape and appropriate signage shall be placed on the work area entry.

Install critical barriers on windows and doors that will not be utilized during removal operations. Drop sheets will be installed in the areas below the pipe insulation with mastic which will be removed. Place drop sheets in a manner which will cover the area below the glove-bag(s) and any area where workers stand when working within the glove-bag.

  
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Check pipe insulation where the work will be performed. Wrap damaged (broken lagging, hanging, etc.), pipe insulation in 6-mil plastic and "candy-stripe" with adhesive tape. Place one layer of adhesive tape around undamaged pipe at each end where the Glove-bag will be attached. Glove-bags shall not be used when surface temperatures exceed 150 degrees F.

Slit top of the Glove-bag open (if necessary) and cut down the sides to accommodate the size of the pipe insulation (about two inches longer than the pipe insulation diameter). Place necessary tools into the pouch located inside the Glove-bag. This will usually include: bone saw, utility knife, rags, scrub brush, wire cutters, tin snips and pre-wetted cloth. Place one strip of adhesive tape along the edge of the open top slit of Glove-bag for reinforcement.

Place the Glove-bag around section of pipe insulation to be worked on, then staple top together through reinforcing adhesive tape. Next, adhesive tape the ends of Glove-bag to pipe insulation itself, where previously covered with plastic or adhesive tape.


Test the seal of each glove bag with a smoke tube and aspirator bulb. Place tube into water sleeve (two-inch opening to Glove-bag) squeezing bulb and filling bag with visible smoke. Remove smoke tube and twist water sleeve closed. While holding the water sleeve tightly, gently squeeze Glove-bag and look for smoke leaking out (especially at top and ends of the Glove-bag). If leaks are found, make repairs using adhesive tape and re-test.

Remove pipe insulation from inside the Glove-bag as follows:

Insert wand from garden sprayer through water sleeve. Adhesive tape water sleeve tightly around the wand to prevent leakage.

**Two workers are required to operate each glove-bag.** One person places his hands into the long-sleeved gloves while the second person directs the water source at the work, operates the HEPA vacuum, and provides assistance as necessary to complete the removal operation(s).

Thoroughly wet pipe insulation with water or removal encapsulant and allow to soak in. Wet adequately to penetrate and soak material through to substrate. Throughout this process, spray amended water or removal encapsulant on the cutting area to keep dust to a minimum. Remove pipe insulation using appropriate

  
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hand tools.

Place sections of pipe insulation in the bottom of bag without dropping.

Seal exposed ends of remaining pipe insulation from inside the Glove-bag.

Rinse tools with water inside the bag and place back into pouch. Using scrub brush, rags and water, scrub and wipe down the exposed pipe insulation. Remove water wand from water sleeve and attach the small nozzle from HEPA-filtered vacuum. Turn on the HEPA vacuum and fully collapse the glove-bag. Remove the vacuum nozzle, twist water sleeve closed and seal with adhesive tape.

From outside the Glove-bag, pull the tool pouch away from the bag. Place adhesive tape over twisted portion and then cut the tool bag from the Glove-bag, cutting through the twisted-taped section. Contaminated tools may then be placed directly into next Glove-bag without cleaning. Alternatively, tool pouch with the tools can be placed in a bucket of water, opened underwater, and tools cleaned and dried. Discard rags and scrub brush with asbestos waste.

**Sliding a Glove-bag from one removal section to another is prohibited.** If more than one adjacent section of pipe insulation is to be removed, a continuous string of Glove-bags or a new Glove-bag must be used for each section.

The removed Glove-bag shall be placed in a second disposal bag prior to being removed from the regulated work area. The bags shall have generator labels attached before being transferred to the prepared waste receptacle. All resulting waste will be disposed as described in item E of this section. All regulated area/containment teardown materials will be treated as ACM.

## **E. Disposal**

1. Once the ACM is removed (including containment construction materials, i.e., poly, tape, etc.) it will be double bagged and labeled in accordance with Texas Department of State Health Services (TDSHS) and OSHA guidelines. Pre-printed Generator Labels shall be affixed to each bag or wrapped component prior to being placed in the lined waste disposal dumpster or trailer.
2. All waste will be labeled in accordance with 29 CFR 1910.1200 (f) of OSHA's Hazard Communication standard, and will contain the following information:

DANGER  
CONTAINS ASBESTOS FIBERS



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AVOID CREATING DUST

CANCER AND LUNG DISEASE HAZARD

3. The area between the bag-out area and the prepared waste receptacle shall be regulated with barrier tape during bag-out operations. The waste receptacle will have asbestos specific signage attached during loading and unloading activities. The waste dumpster or trailer shall remain secured during all other periods.
4. The waste will be disposed in an approved landfill. The waste will be transported to the landfill in a lined closed top receptacle. Verification of disposal at the landfill will be provided to the Owner by **Contractor** via the TDSHS Waste Manifest.

**F. Clearance**

Aggressive TEM clearance sampling will be conducted in accordance with (40 CFR Part 763, Subpart E, Appendix A), in any contained area in which abatement has occurred.

**III. Contractor Submittals**

Submittals required for proper execution include but are not limited to the following:

Pre-Construction Submittals (submitted to **Consultant**)

Regulatory Notification Information  
Plan of Action  
Fire Action Plan  
Emergency Phone List  
Project Schedule  
Copy of Written Respirator Program which conforms to 29 CFR 1910.134(b)  
OSHA Material Safety and Data Sheets (Product Handling)

Construction Submittals (submitted to **Consultant** before start of work on-site)

Licenses: Contractor, Supervisor, Transporter(s)  
NESHAP Training Certificate  
Personal Air Monitoring Lab Results  
List of Workers  
Worker Registration Certificates  
Medical Examination Results



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Worker Training Certificates  
Respiratory Fit Test Certificate  
Certificates of Worker Acknowledgement

**Project Closeout (submitted to Consultant no later than ten (10) working days following completion of the project)**

Contractor's Daily Log  
Waste Disposal Manifest Copies  
Certificate of Completion (if required)  
Releases, Occupancy Permits (if applicable)  
Personal Air Monitoring Lab Results (If applicable)

**RESUBMISSION:**

Revise submittals as required and resubmit as specified for initial submittal. Indicate any changes which have been made other than those requested by **Consultant**.

**CONTRACTOR RESPONSIBILITIES:**

Illegible submittals will be rejected and returned for re-submittal.

Schedule submittals according to general flow of Work and so as to allow for adequate and timely review of submittals by **Consultant**.

Review submittals prior to submission and submit to **Consultant** in accordance with provisions herein.


Verify field measurements, ACM locations, construction criteria, catalog numbers and similar data.

Coordinate submittals with requirements of Work and Contract Documents.

**Contractor's** responsibility for errors or omissions is not relieved by **Consultant's** review.

**Contractor's** responsibility for deviations from requirements of Contract Documents is not relieved by **Consultant's** review, unless **Consultant** is notified of deviations in writing at time of submittal, and gives written review of specific deviations.

Do not begin work which requires submittals until reviewed submittals have been reviewed and approved by **Consultant**.

  
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If required, reproduce and distribute copies after **Consultant's** review.

**CONSULTANT'S RESPONSIBILITIES:**

Review submittals within two working days or indicate in writing reasons for reviews which require additional time.

Indicate results of review and return submittals to **Contractor** for distribution.

**Consultant** is not responsible for verification of field measurements, construction criteria, catalog numbers and other similar data.

Review of separate items does not constitute review of an assembly in which items function.

## **IV. Construction Notes**

The **Contractor** shall be responsible for submission of the TDSHS 10-day Asbestos/Demolition Notification Form. The **Owner** shall be responsible for payment of notification fees associated with the TDSHS Demolition/Renovation form.

The **Contractor** will be responsible for routing water and electricity to the work areas. Water and electrical service are reportedly present on the site at this time; however, the **Contractor** shall confirm the presence and location of utilities prior to the start of work and coordinate the routing of the utilities with the **Owner**. All electrical connections and outlets shall be protected at all times by ground fault circuit interrupters. The **Contractor** shall provide routing of water and electrical service for the on-site requirements of the **Consultant**.

The **Contractor** will remove all movable items from the work areas prior to commencement of abatement activities.

The **Contractor** will coordinate security concerns, procedures, background checks, badges, etc. with the **Owner**.

During the pre-cleaning phase of abatement operations, all exposed non-movable equipment within the work areas will be wet wiped, HEPA vacuumed and covered with six-mil polyethylene.

The **Contractor** is to be current and in good standing on all asbestos abatement notification fees. The **Owner** reserves the right to verify **Contractor's** standing.

**Asbestos Abatement Specification**

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The **Contractor** shall maintain all records required by TDSHS Texas Asbestos Health Protection Rules Section 295.62 Operations: Recordkeeping

**Contractor** parking and disposal dumpster areas will be as designated by the **Owner**. The **Contractor** will keep work and parking areas clean.

Prior to any asbestos abatement activities the **Contractor** will provide a licensed electrician to provide power lock-out and tag-out of all circuits to be affected by the asbestos abatement activities. Lock-out/Tag-out must meet OSHA 1910.147 requirements. All electrical circuits in the regulated and/or contained area shall have ground-fault interrupter (GFCI) units installed outside the contained work area.

Exhaust negative pressure ventilation system to outside of building. Plywood inserts or a similar hard barrier shall be required for building security on any building openings used for exhaust purposes.

The **Contractor** shall arrange the use of on-site toilet facilities with the Owner or provide temporary self-contained toilet units for use by **Contractor's** personnel throughout the duration of abatement activities.

The **Contractor** shall install one functioning fire extinguisher in the work area for each 1,000 square feet of work area or part thereof. Additional fire extinguishers shall be installed in the Equipment Room and Clean Room of the decontamination unit.

The **Contractor** shall conduct a safety meeting for **Contractor's** employees with emphasis on operation of fire extinguishers and emergency exits in case of fire.

**Contractor** shall have posted emergency phone numbers for the fire department and police.

**Contractor** shall store a minimum of volatile substances on the job site and in fire resistant containers only.

The **Contractor** shall provide respirator filter cartridges and protective suits as required for the **Consultant's** use on an as-needed basis during the project.

**The Owner or Consultant may issue a verbal or written Stop Work Order when deemed necessary by the Owner or Consultant at any time during the abatement activities. When a Stop Work Order is issued, the Contractor will cease all activities requested, and shall not resume those activities until authorized by the Owner or Consultant.**

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## V. Products

Amended Water: Provide water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the **ACM** and retardation of fiber release during disturbance of the material. As an option, the **Contractor** may utilize water to which a mild detergent has been added in lieu of a commercially available surfactant product.

Disposal Bags: Provide as a minimum, individual, 6 mil thick, leak-tight, manufactured polyethylene bags.

Disposal Bag Labels: Provide labels with **Owner's** name, **Contractor's** name, Project site address and the following warnings and labels, in accordance with regulatory requirements. Labels shall be lettered with indelible ink.

First Label:

CAUTION  
CONTAINS ASBESTOS FIBERS  
AVOID OPENING OR BREAKING CONTAINER  
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

Second Label: Provide in accordance with 29 CFR 1910.1200(f) of OSHA's Hazard Communication standard:

DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD  
BREATHING AIRBORNE ASBESTOS, TREMOLITE, ANTHOPHYLLITE, OR  
ACTINOLITE FIBERS IS HAZARDOUS TO YOUR HEALTH

Third Label: Provide in accordance with U.S. Department of Transportation Regulation on hazardous waste marking. 49 CFR parts 171 and 172. Hazardous Substances: Final Rule:

RQ HAZARDOUS  
SUBSTANCE,  
CLASS 9,  
NA 2212, PG III  
(ASBESTOS)



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Polyethylene Wrap: Provide minimum 6 mil polyethylene sheeting as a wrapping for large sections of rigid waste material and for construction of floors and critical barriers in the containment areas. Provide minimum 4 mil polyethylene sheeting for construction of walls of the containment.

Removal Encapsulant: Provide a penetrating type encapsulant designed specifically for removal of **ACM**. Utilize an encapsulant that will meet or exceed the results produced by use of Amended Water, as described above.

Sprayer: Provide a hand pump type pressure-can garden sprayer fabricated out of either metal or plastic, equipped with a metal wand at the end of a hose that can deliver a stream or spray of liquid under pressure.

Mastic Remover/Solvent: Solvents with a flash point of 140 degrees Fahrenheit or below will not be used.

## **VI. Air Monitoring Services**

The **Consultant** shall verify that the Work performed is in compliance with applicable regulations and that the building areas beyond the Work Area and the outside environment remain free of contamination. This section also sets forth airborne fiber levels both inside and outside the Work Area as action levels, and describes the action required by the **Contractor** if an action level is met or exceeded.


### AIR MONITORING:

The **Consultant** will be conducting air monitoring throughout the course of the project.

Base Line Fiber Counts: The **Consultant** will monitor airborne fiber counts prior to start of Work. The purpose of this air monitoring will be to establish existing airborne fiber counts prior to beginning abatement operations.

Work Area Isolation: The **Consultant** will monitor airborne fiber counts outside the Work Area. The purpose of this air monitoring will be to detect faults in the Work Area isolation including, but not limited to, contamination of the building outside of the Work Area with airborne asbestos fibers, failure of filtration or rupture in the ventilation system, or contamination of the exterior of the building with airborne asbestos fibers.

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Should any of the above occur, the **Contractor** shall immediately cease asbestos abatement activities until the fault is corrected. Work shall not recommence until authorized by the **Consultant**.

Work Area Airborne Fiber Count: The **Consultant** will monitor airborne fiber counts in the Work Area. The purpose of this air monitoring will be to detect airborne fiber counts which may significantly challenge the integrity of Work Area isolation procedures that protect the balance of the building or outside of the building from contamination by airborne fibers.

Final Clearance: The **Consultant** will conduct Final Clearance air sampling in accordance with the Final Clearance Section of this Specification. Aggressive TEM clearance sampling will be conducted in accordance with (40 CFR Part 763, Subpart E, Appendix A), in any contained area in which abatement has occurred. Five (5) clearance samples will be run for each contained work area at a minimum volume of 1,250 liters per sample.

### AIRBORNE FIBER COUNTS:

Inside Work Area: Maintain an average airborne count in the Work Area of less than 0.2 fibers per cubic centimeter. If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts. If the Time Weighted Average (TWA) fiber count for any Work shift or eight (8) hour period exceeds 0.2 fibers per cubic centimeter, stop Work and leave ventilation system in operation. Do not recommence Work until authorized by the **Consultant**.

Outside Work Area: Maintain an average airborne count outside the Work Area of less than or equal to Base Line.

If any air sample taken outside the Work Area exceeds the Base Line, immediately and automatically stop Work until the source of the high fiber readings can be determined by the **Consultant**. If no outside non-asbestos source can be located by the **Consultant** and if this air sample was taken inside the building and outside of Critical Barriers around the Work Area, immediately erect new Critical Barriers to isolate the affected area from the balance of the building or as instructed by the **Consultant**.

Erect Critical Barriers at the next existing structural isolation of the involved space (e.g. wall, ceiling, floor).

Decontaminate the affected area in accordance industry standard methods.

Respiratory protection as set forth in the Work Practices Section shall be worn in affected area until area is cleared for reoccupancy.

  
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Leave Critical Barriers in place until completion of Work and insure that the operation of the negative pressure ventilation system in the Work Area results in a flow of air from the balance of the building into the affected area.

If the exit from the clean room of the personnel decontamination unit enters the affected area, establish a new decontamination facility.

After visual inspection in the extended work area, remove Critical Barriers separating the work area from the affected area. Final Clearance air samples will be taken within the entire area.

Fiber Type Disputes: The following procedure will be used to resolve any disputes regarding fiber types when the Project has been stopped due to excessive airborne fiber counts:

Air samples will be secured in the same area by the **Consultant** for analysis by Transmission Electron Microscopy at the option of the **Consultant** and classified as retests and back charged to the **Contractor** in accordance with the procedures in this specification.

ANALYTICAL METHODS:

The following methods will be utilized at the discretion of the **Consultant** in collecting and analyzing air samples:

Phase Contrast Microscopy (NIOSH 7400 Method, Issue 2, Revision 3 or OSHA Reference Method)

Transmission Electron Microscopy (40 CFR Part 763, Subpart E, Appendix A)


SAMPLE PROTOCOLS:

General: The number and volume of air samples taken by the **Consultant** will generally be in accordance with the following schedule. Sample quantities, locations, volumes and methodologies may vary depending upon the analytical method, project layout, procedures used and at the discretion of the **Consultant**.

SCHEDULE OF AIR SAMPLES:

Base Line Sample Schedule: The **Consultant** will secure the following air samples to establish a Base Line before start of Work. The number of samples may vary according to site plan and on authorization of **Consultant**.

Location Sampled	Minimum	Minimum	Planned
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	Number of Samples	Volume	Analytical Method
Each Work Area	3	1250 Liters	PCM
Outside Each Work Area	1	1250 Liters	PCM
Outside Building	1	1250 Liters	PCM

Base Line Fiber Level: is an action level expressed in fibers per cubic centimeter which is the larger of either the average of the samples collected outside each work area or 0.01 fibers per cubic centimeter of air. The Base Line samples may be collected but archived (not read) at the discretion of the **CONSULTANT**.


Daily Sample Schedule (per 8-hour work period): The **Consultant** will generally take the following samples on a daily (8-hour work period) basis. The number of samples may vary according to site plan and on authorization of **Consultant**.

Location Sampled	Minimum Number of Samples	Minimum Volume	Planned Analytical Method
Each Work Area	2	500	PCM
Outside Each Work Area/Inside Building	2	500	PCM
Decon Clean Room	2	500	PCM
Output of Negative Pressure Ventilation System	2	500	PCM

If airborne fiber counts exceed baseline limits, additional samples will be taken (and classified as retests) as necessary to monitor fiber levels and confirm sources.

Final Clearance Schedule (per containment): The **Consultant** will collect the following samples after completing a visual inspection of the work area. The number of samples may vary according to site plan and on authorization of **Consultant**.

Location Sampled	Minimum Number of Samples	Minimum Volume	Planned Analytical Method
------------------	---------------------------	----------------	---------------------------

  
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Each Work Area	5	1,250 Liters	TEM
Field Blank	1	N/A	TEM
Lab Blank	1	N/A	TEM
Box Blank	1	N/A	TEM

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Release Criteria: Gross decontamination is complete when every Work Area sample is below seventy (70) structures/mm<sup>2</sup> in accordance with 40 CFR 763.90 (i)(4). If any sample is above the limit indicated, then the gross decontamination is incomplete and re-cleaning by decontamination procedures and/or ventilation system cycling is required and primary containment barriers cannot be removed.

INSPECTIONS:

The **Consultant**, in addition to providing air monitoring services, will provide full-time, on-site inspection of Work activities. Work shall not proceed without prior notice to the **Consultant** and presence of the **Consultant** on the Work site (requires 48 hours advance notice of Work).

The **Consultant** will conduct the following key Project inspections and no work by the **Contractor** will proceed beyond these points until all discrepancies noted during the inspection have been corrected.

The **Consultant's** inspections do not relieve the **Contractor** of Contract obligations and are not designed to locate all project discrepancies. The **Contractor** is responsible for project quality.


First Key Inspection:

Inspection of Work Area and Containments Prior to Start of Removal: Removal operations shall not proceed until the **Consultant** has completed inspection of the Work Area preparations and until all discrepancies noted have been corrected.

Second Key Inspection:

Inspection During Removal: Removal Work shall not be conducted unless the **Consultant**

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is on the Project site. Daily inspection of the Work Area and Work practices will be conducted; upon discovery and report of a discrepancy the **Contractor** shall immediately stop Work and correct the discrepancy.

Third Key Inspection:

Inspection of Work Area or Containment After Completion of Removal Work, but Prior to Encapsulation and Containment Disassembly: A visual inspection of the Work site and/or Containment areas and removal surfaces will be conducted at this point by the **Consultant** and encapsulation and/or containment disassembly shall not proceed until discrepancies noted have been corrected.

Fourth Key Inspection:

Final Clearance: After encapsulation and final clean-up of the Work Area, but prior to removal of Critical Barriers, the **Consultant** will conduct a visual inspection followed by final air tests. Final air sampling will be conducted in accordance with the Final Clearance Sections of this Specification.

Final Key Inspection:


Project Closeout Inspection: A final inspection will be conducted by the **Consultant** after the **Contractor** has removed Critical Barriers, equipment, and supplies. A Project "Punch List" will be provided of any items requiring correction or completion. Punch List items shall be completed prior to issuance of final completion notice by the **Contractor**.

Discrepancies or needed corrective measures observed by the **Consultant** will be reported to the **Contractor's** Superintendent on-site and shall be immediately corrected. The above inspections are not necessarily single events. Failed inspections will be re-conducted and time classified as retests and charged back to the **Contractor** in accordance with the project documents.

Inspections will require 24 hours advance notice to the **Consultant**.

PERSONAL MONITORING:

The **Contractor** may perform air monitoring as required to meet OSHA requirements for maintenance of Time Weighted Average (TWA) and excursion limit fiber counts for types of respiratory protection provided. The **Consultant** and/or **Owner** will not be providing air monitoring services to meet these OSHA requirements. A listing of all personal monitoring results obtained during the project will be submitted to the **Consultant** with the **Contractor**

  
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closeout submittals.

LABORATORY TESTING:

The **Consultant** will perform field analysis of the air samples. A microscope and field laboratory will be set up at the jobsite, at the option of the **Consultant**, so that verbal reports on air samples can be obtained promptly after collection.

Reports to the **Owner** by the **Consultant** will include air monitoring data and pertinent information on work being conducted such as: work hours, number of workers, procedures used, contractor discrepancies and corrective measures, containment methods and construction, and amount of **ACM** removed.



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**Abatement Drawings**



**Legend**

- Resilient Floor Tile with Black Mastic
- Drywall Construction on Ceilings
- Cement Panels
- HVAC Duct with Black Mastic

\*The listed materials will need to be field verified

Eloy Palacios TDSHS LIC 105727, EXP 11.7.2024



POTENTIAL LOCATION TO ESTABLISH 3-STAGE DECONTAMINATION CHAMBER



POTENTIAL LOCATION TO VENT HFU'S TO BUILDING EXTERIOR



Project No. 88237289
Scale: Not to Scale
Drawn By: EP
Date: 11/20/2023

**Terracon**  
Consulting Engineers & Scientists

1506 Mid Cities Drive    Pharr, Texas 78577  
PH. (956) 283-8254    Fax (956) 283-8279

ASBESTOS ABATEMENT DIAGRAM
Barrientes CTE Building 1100 East Ebony Lane Edinburg, Texas

FIG No.
1

**Asbestos Inspection Report Information**



# Limited Asbestos Survey

**Edinburg Consolidated Independent School District  
Barrientes Career Center  
1100 East Ebony Lane  
Edinburg, Texas 78539**

July 7, 2020

Terracon Project No. 88207093



**Prepared for:**

Edinburg Consolidated Independent School District  
Edinburg, Texas 78540

**Prepared by:**

Terracon Consultants, Inc.  
Pharr, Texas 78577

[terracon.com](http://terracon.com)

**Terracon**

Environmental



Facilities



Geotechnical



Materials

July 7, 2020



Edinburg Consolidated Independent School District  
1305 East Schunior Street  
Edinburg, Texas 78540

Attn: Mr. Robert Estrada  
P: (956) 289-2578  
E: [r.estrada@ecisd.us](mailto:r.estrada@ecisd.us)

Re: **Limited Asbestos Survey**  
Barrientes Career Center  
1100 East Ebony Lane  
Edinburg, Texas 78539  
Terracon Project No: 88207093

Dear Mr. Estrada:

The purpose of this report is to present the results of a limited asbestos survey performed on June 11, 2020 at the above referenced school building located in Edinburg, Texas. This survey was conducted in general accordance with Terracon Task Order No. P88207093, dated May 29, 2020. We understand that this survey was requested to facilitate the planned interior and exterior renovations of the existing building currently on-site.

Asbestos-containing resilient floor tile and mastic, drywall construction, cement board, and HVAC duct mastic materials were identified within the Barrientes Career Center building. The southernmost portion of the building and the C-15 Area (See drawing in Appendix E) were not included in the scope of work per the Client request. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to Edinburg Consolidated Independent School District (CISD). If you have any questions regarding this report, please contact the undersigned at (956) 283-8254.

Sincerely,

**Terracon Consultants, Inc.**

Tomas Cruz  
Individual Asbestos Consultant  
TDSHS License No.: 10-5857

Guadalupe Torres  
Asbestos Inspector  
TDSHS License No.: 60-3387

Richard Ian Howes  
Individual Asbestos Consultant  
TDSHS License No.: 10-5406

Terracon Consultants, Inc. 1506 Mid-Cities Drive Pharr, Texas 78577  
P [956] 283 8254 F [956] 283 8279 [terracon.com](http://terracon.com)

Environmental



Facilities



Geotechnical



Materials

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# LIMITED ASBESTOS SURVEY REPORT

**Barrientes Career Center**

**1100 East Ebony Lane**

**Edinburg, Texas 78539**

**Terracon Project No. 88207093**

## 1.0 INTRODUCTION

Terracon conducted a limited asbestos survey of the majority of the Barrientes Career Center building located at 1100 East Ebony Lane in Edinburg, Hidalgo County, Texas. The survey was conducted on June 11, 2020 by a Texas Department of State Health Services (TDSHS) licensed Asbestos Inspector in general accordance with Terracon Task Order No. P88207093, dated May 29, 2020. The southernmost portion of the building and the C-15 Area (See drawing in Appendix E) were not included in the scope of work per the Client request. The interior and exterior areas of the majority of the building were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids or in other concealed areas. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to a TDSHS licensed Asbestos Laboratory for analysis by Polarized Light Microscopy (PLM).

### 1.1 Project Objective

We understand that this survey was requested to facilitate the planned interior and exterior renovations of portions of the existing Barrientes Career Center building currently on-site. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The EPA AHERA regulation (40 CFR 763) and asbestos NESHAP requires that potentially regulated ACM (RACM) be identified, classified and quantified prior to planned disturbances or demolition activities.

## 2.0 BUILDING DESCRIPTION

The Barrientes Career Center building is a single-story, brick veneer structure, with built-up membrane roofing, atop a concrete slab foundation. Interior flooring materials consist of a variety of resilient floor tile and mastic and ceramic tile with grout/thinset. Walls are finished with ceramic tile with grout/thinset, drywall construction, concrete masonry unit (CMU) block, cement board, brick, and cove base and mastic materials. Ceilings are finished with suspended acoustical ceiling tile and drywall construction materials. Heating, ventilation, and air conditioning (HVAC) equipment was observed above the ceilings and in mechanical equipment closet spaces. The

southernmost portion of the building and the C-15 Area (See drawing in Appendix E) were not included in the scope of work per the Client request.

### **3.0 FIELD ACTIVITIES**

The survey was conducted by Mr. Guadalupe Torres, a TDSHS licensed Asbestos Inspector employed by Terracon. A copy of Mr. Torres' Asbestos Inspector license is attached as Appendix D. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

#### **3.1 Visual Assessment**

Our survey activities began with visual observation of the majority of the interior and exterior areas of the Barrientes Career Center building to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. An interior assessment was conducted throughout visually accessible areas of the building.

As per the Client's request, the survey included an assessment and sampling of the interior floor, wall, ceiling and mechanical equipment, and exterior materials in the majority of the Barrientes Career Center building. The southernmost portion of the building and the C-15 Area were not included in the scope of work per the Client request. Materials identified as concrete, glass, wood, masonry, metal, or rubber were not considered suspect ACM.

There may remain suspect materials located in other areas/building materials, within inaccessible areas such as wall cavities, or behind mirrors which were not sampled. Suspect materials, such as vermiculite fill, mastic, or materials which do not resemble those building materials observed, should be sampled prior to demolition or renovation activities if the activities will disturb the materials.

#### **3.2 Physical Assessment**

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

#### **3.3 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected

in each homogeneous area. Sample team members collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Ninety-four (94) bulk samples were collected from twenty-eight (28) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A.

### **3.4 Sample Analysis**

Bulk samples of suspect ACM materials were submitted under chain-of-custody to Moody Labs of Farmers Branch, Texas for analysis by Polarized Light Microscopy with dispersion staining (PLM/DS) techniques per EPA's Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116). The percentage of asbestos, where applicable, was determined by microscopical visual estimation. Moody Labs is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), Accreditation No. 102056-0 and licensed by the TDSHS (License No. 300084). Analytical results and sample chain-of-custody documentation are included in Appendix C of this report.

## **4.0 REGULATORY OVERVIEW**

The Asbestos Hazard Emergency Response Act (AHERA) and its regulations require public school districts and non-profit schools including charter schools and schools affiliated with religious institutions to inspect their schools for asbestos-containing building material and prepare management plans and to take action to prevent or reduce asbestos hazards.

These legal requirements are founded on the principle of "in-place" management of asbestos-containing material. Removal of these materials is not usually necessary unless the material is severely damaged or will be disturbed by a building demolition or renovation project. Personnel working on asbestos activities in schools must be trained and accredited in accordance with The Asbestos Model Accreditation Plan. In addition, if removal of asbestos during renovation is warranted, or school buildings will be demolished, public school districts and non-profit schools must comply with the Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) or any applicable State regulations which adopt the NESHAP and are more stringent.

The State of Texas has established the Texas Asbestos Health Protection Rules (TAHPR) which requires any asbestos-related activity to be performed by an individual licensed by the State of Texas, through the TDSHS. An asbestos related activity consists of the disturbance (whether intentional or unintentional), removal, encapsulation, or enclosure of asbestos, including preparations or final clearance, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos, bidding for a contract for any of these activities, or any other activity required to be licensed under TAHPR.

Abatement must be performed by a State of Texas licensed asbestos abatement contractor in accordance with a project design prepared by a State of Texas licensed asbestos consultant. In addition, third party air monitoring must be conducted during the abatement activities.

The asbestos NESHAP (40 CFR Part 61 Subpart M) regulates asbestos fiber emission and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packing, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos. Friable ACM, Category I and II non-friable ACM which is in poor condition and has become friable or which will be subject to drilling, sanding, grinding, cutting, or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities.

The TAHPR and NESHAP require that written notification be submitted before beginning renovation projects which include the disturbance of any asbestos-containing material (ACM) in a building or facility, or before the demolition of a building or facility, even when no asbestos is present. This written notification must be provided to the TDSHS at least 10 working days prior to the commencement of asbestos abatement or demolition activities. Removal of RACM must be conducted by a State of Texas licensed asbestos contractor. In addition, third party air monitoring must be performed during the abatement.

The OSHA Asbestos standard for the construction industry (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc).

The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. States that administer their own federally approved state OSHA programs may require other precautions.

## **5.0 FINDINGS AND RECOMMENDATIONS**

**Laboratory analysis confirmed the presence of asbestos-containing materials within the Barrientes Career Center building.** A summary of the classification, condition and approximate quantity of confirmed ACM is presented in Appendix B. Laboratory analytical reports are included in Appendix C. A sample location drawing is included as Appendix E.

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Based on the results of the laboratory analyses, asbestos was confirmed in the following materials within the Barrientes Career Center building:

- Resilient Floor Tile and Mastic– The green, 1' x 1' floor tile with white specks and black mastic utilized on the floor throughout the Lounge of the Barrientes Career Center building was found to contain 10% Chrysotile asbestos in the floor tile and 5% Chrysotile asbestos in the black mastic. The asbestos-containing flooring materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 220 square feet of these materials on the floor throughout the Lounge of the Barrientes Career Center building.
- Drywall Construction – The white drywall construction with smooth texture, utilized on the majority of ceilings in the Men's and Women's Restrooms adjacent and to the west of the Lounge of the Barrientes Career Center building was found to contain 2% Chrysotile asbestos in the texture. The asbestos-containing wall materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 560 square feet of these materials on the ceilings of the Men's and Women's Restrooms adjacent and to the west of the Lounge of the Barrientes Career Center building.
- Cement Board – The cement board utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, and CC-6 of the Barrientes Career Center building was found to contain 15% Chrysotile asbestos. The asbestos-containing upper door frame materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 340 square feet of these materials on select upper door frames of the Barrientes Career Center building.
- Resilient Floor Tile and Mastic – The beige, 1' x 1' floor tile with white specks and black mastic utilized on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11, CT, Open Space, and Office of the Barrientes Career Center building was found to contain 5% Chrysotile asbestos in the floor tile and 5% Chrysotile asbestos in the black mastic. The asbestos-containing flooring materials identified were noted to be in good condition and were assessed as being non-friable. It is estimated that there exists approximately 1,420 square feet of these materials on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11 CT, Open Space and Office, of the Barrientes Career Center building.
- HVAC Duct Mastic – The black mastic utilized on the HVAC ducts above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building was found to contain 5% Chrysotile asbestos. The asbestos-containing HVAC duct mastic materials identified were noted to be in good condition and were assessed as being friable. It is estimated that there exists approximately 830 linear feet of these materials above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building.



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None of the other suspect building materials sampled and analyzed from within the majority of the building were found to contain asbestos. It should be noted that suspect materials, other than those identified during the June 11, 2020 survey may exist in confined/inaccessible areas within the building. Should suspect materials other than those which were identified during this survey be uncovered prior to or during the renovation process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

It is understood renovation operations which will disturb at least some of the asbestos-containing materials will be conducted in the Barrientes Career Center building. It is recommended that the affected materials which are determined to be in the planned path of construction be removed prior to conducting any renovation. It is recommended that any removal of asbestos-containing materials associated with the interior and exterior areas of the structure be conducted by trained and licensed asbestos abatement personnel working under the requirements of the TDSHS Texas Asbestos Health Protection Rules.

According to TDSHS Texas Asbestos Health Protection Rules, a removal project involving the removal of more than 160 square feet or 260 linear feet of asbestos-containing materials would need to be designed by a licensed Individual Asbestos Consultant. Air monitoring by a licensed third-party Air Monitor would be required during the actual removal work regardless of the size of the project. Terracon would be pleased to provide the Client with a proposal for developing asbestos abatement specifications and for performing abatement oversight and air monitoring upon request.

If the Client does not intend to demolish or renovate the Barrientes Career Center building the asbestos-containing materials associated with the building should be managed in place. This in-place management should include such operations as repairing any damaged asbestos-containing materials, protecting the remaining asbestos-containing materials from further damage, and developing a plan to periodically monitor the condition of the asbestos-containing materials. Notification of the presence of the materials should also be made to residents, employees, and outside contractors so that they do not inadvertently disturb the remaining asbestos-containing materials.

It is important to note that state and federal regulations require a ten working day notification prior to any demolition or renovation activities in a building that affords public access or occupancy, regardless of whether asbestos is present or not. These activities must be performed in accordance with the current TDSHS, EPA, and OSHA guidelines.

## 6.0 GENERAL COMMENTS

This limited asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in

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this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by Edinburg CISD for specific application to their project as discussed.

This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

**LIMITED ASBESTOS SURVEY SAMPLE SUMMARY**  
**Barrientes Career Center**  
**Edinburg, Texas**  
**Terracon Project No. 88207093**

SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
1/1	Resilient Floor Tile – 1' x 1', White with Red and Blue Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-6, CC-17, CC-18, CC-19, and CC-6 Office and Locker Room, of the Barrientes Career Center building	Room CC-6 Locker Room, SEC	NAD
2/1	Resilient Floor Tile – 1' x 1', White with Red and Blue Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-6, CC-17, CC-18, CC-19, and CC-6 Office and Locker Room, of the Barrientes Career Center building	Room CC-17, SEC	NAD
3/1	Resilient Floor Tile – 1' x 1', White with Red and Blue Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-6, CC-17, CC-18, CC-19, and CC-6 Office and Locker Room, of the Barrientes Career Center building	Room CC-19, SEC	NAD
4/2	<b>Resilient Floor Tile – 1' x 1', Green with White Specks and Black Mastic</b>	<b>Utilized on the floor throughout the Lounge of the Barrientes Career Center building</b>	<b>Lounge, SWC</b>	<b>10% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic</b>
5/2	<b>Resilient Floor Tile – 1' x 1', Green with White Specks and Black Mastic</b>	<b>Utilized on the floor throughout the Lounge of the Barrientes Career Center building</b>	<b>Lounge, SWC</b>	<b>10% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic</b>
6/2	<b>Resilient Floor Tile – 1' x 1', Green with White Specks and Black Mastic</b>	<b>Utilized on the floor throughout the Lounge of the Barrientes Career Center building</b>	<b>Lounge, SWC</b>	<b>10% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic</b>

## APPENDIX A

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SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
7/3	Resilient Floor Tile – 1' x 1', White with Blue and Red Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-7, CC-8, and CC-16 of the Barrientes Career Center building	Room CC-7, SEC	NAD
8/3	Resilient Floor Tile – 1' x 1', White with Blue and Red Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-7, CC-8, and CC-16 of the Barrientes Career Center building	Room CC-8, NWC	NAD
9/3	Resilient Floor Tile – 1' x 1', White with Blue and Red Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-7, CC-8, and CC-16 of the Barrientes Career Center building	Room CC-16, SEC	NAD
10/4	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms, and Hand Wash Areas of Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restroom adjacent to Room CC-17 of the Barrientes Career Center building	Room CC-1 Restroom, NWC	NAD
11/4	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms, and Hand Wash Areas of Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restroom adjacent to Room CC-17 of the Barrientes Career Center building	Room CC-3, SEC	NAD
12/4	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms, and Hand Wash Areas of Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restroom adjacent to Room CC-17 of the Barrientes Career Center building	Room CC-5, SWC	NAD

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SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
13/5	Cove Base Mastic – Yellow	Utilized on the lower walls of Rooms CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, and the Lounge of the Barrientes Career Center building	Room CC-6, SWC	NAD
14/5	Cove Base Mastic – Yellow	Utilized on the lower walls of Rooms CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, and the Lounge of the Barrientes Career Center building	Room CC-18, SEC	NAD
15/5	Cove Base Mastic – Yellow	Utilized on the lower walls of Rooms CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, and the Lounge of the Barrientes Career Center building	Room CC-8, NEC	NAD
16/6	Ceramic Tile – Grout/Thinset	Utilized on the walls of the Men's and Women's Restrooms in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restrooms adjacent to Room CC-17 of the Barrientes Career Center building	Room CC-2 Restroom, SEC	NAD
17/6	Ceramic Tile – Grout/Thinset	Utilized on the walls of the Men's and Women's Restrooms in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restrooms adjacent to Room CC-17 of the Barrientes Career Center building	Room CC-3 Restroom, SEC	NAD
18/6	Ceramic Tile – Grout/Thinset	Utilized on the walls of the Men's and Women's Restrooms in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, and Men's and Women's Restrooms adjacent to Room CC-17 of the Barrientes Career Center building	Restroom adjacent to Room CC-17, SWC	NAD
19/7	Drywall Construction – White with Medium Texture	Utilized on the majority of the walls in Room CC-6 Shop and Office Space of the Barrientes Career Center building	Room CC-6, SWC	NAD

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SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
20/7	Drywall Construction – White with Medium Texture	Utilized on the majority of the walls in Room CC-6 Shop and Office Space of the Barrientes Career Center building	Room CC-6, SWC	NAD
21/7	Drywall Construction – White with Medium Texture	Utilized on the majority of the walls in Room CC-6 Shop and Office Space of the Barrientes Career Center building	Room CC-6, NWC	NAD
22/8	<b>Drywall Construction – White with Smooth Texture</b>	<b>Utilized on the majority of the ceilings in the Restrooms adjacent west of Room CC-17 of the Barrientes Career Center building</b>	<b>Men's Restroom, SWC</b>	<b>2% Chrysotile Detected in the Texture</b>
23/8	<b>Drywall Construction – White with Smooth Texture</b>	<b>Utilized on the majority of the ceilings in the Restrooms adjacent west of Room CC-17 of the Barrientes Career Center building</b>	<b>Men's Restroom, SEC</b>	<b>2% Chrysotile Detected in the Texture</b>
24/8	<b>Drywall Construction – White with Smooth Texture</b>	<b>Utilized on the majority of the ceilings in the Restrooms adjacent west of Room CC-17 of the Barrientes Career Center building</b>	<b>Women's Restroom, NWC</b>	<b>2% Chrysotile Detected in the Texture</b>
25/9	Drywall Construction – Beige with Medium Texture	Utilized on the majority of the walls in Lobby, Culinary Arts, and Room CC-7 of the Barrientes Career Center building	Lobby Office, SEC	NAD
26/9	Drywall Construction – Beige with Medium Texture	Utilized on the majority of the walls in Lobby, Culinary Arts, and Room CC-7 of the Barrientes Career Center building	Room CC-7 Closet, SEC	NAD
27/9	Drywall Construction – Beige with Medium Texture	Utilized on the majority of the walls in Lobby, Culinary Arts, and Room CC-7 of the Barrientes Career Center building	Room CC-7, SWC	NAD

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SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
28/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-1, SWC	NAD
29/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-2, SWC	NAD
30/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-3, SEC	NAD
31/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-5, NWC	NAD
32/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-6, NEC	NAD

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SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
33/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-7, SEC	NAD
34/10	CMU Texture – Multi-color	Utilized on the majority of the walls in Rooms CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC_8, CC-16, CC-17, CC-18, CC-19, Lounge, Restrooms, TR, and Storage Room of the Barrientes Career Center building	Room CC-8, SWC	NAD
35/11	Suspended Acoustical Ceiling Tile – 2' x 2', White with Large Fissures and Pinholes	Utilized on the ceilings in the Room CC-6 Office of the Barrientes Career Center building	Room CC-6 Office, NEC	NAD
36/11	Suspended Acoustical Ceiling Tile – 2' x 2', White with Large Fissures and Pinholes	Utilized on the ceilings in the Room CC-6 Office of the Barrientes Career Center building	Room CC-6 Office, NEC	NAD
37/11	Suspended Acoustical Ceiling Tile – 2' x 2', White with Large Fissures and Pinholes	Utilized on the ceilings in the Room CC-6 Office of the Barrientes Career Center building	Room CC-6 Office, NEC	NAD
38/12	Suspended Acoustical Ceiling Tile – 2' x 4', White with Large Fissures and Pinholes	Utilized on the ceilings in the majority of the Barrientes Career Center building	Middle Hallway, South Area	NAD



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39/12	Suspended Acoustical Ceiling Tile – 2' x 4', White with Large Fissures and Pinholes	Utilized on the ceilings in the majority of the Barrientes Career Center building	Room CC-16, NWC	NAD
40/12	Suspended Acoustical Ceiling Tile – 2' x 4', White with Large Fissures and Pinholes	Utilized on the ceilings in the majority of the Barrientes Career Center building	Room CC-7, NEC	NAD
41/13	HVAC Duct Mastic – Grey	Utilized on the HVAC Duct seams at the Room Exit Areas of the Barrientes Career Center building	Room CC-1, SEC	NAD
42/13	HVAC Duct Mastic – Grey	Utilized on the HVAC Duct seams at the Room Exit Areas of the Barrientes Career Center building	Room CC-2, NEC	NAD
43/13	HVAC Duct Mastic – Grey	Utilized on the HVAC Duct seams at the Room Exit Areas of the Barrientes Career Center building	Room CC-5, NEC	NAD
44/14	Pipe Insulation Mastic – White	Utilized on the elbows and seams of the Domestic Water Lines of the Barrientes Career Center building	Room CC-1, NEC	NAD
45/14	Pipe Insulation Mastic – White	Utilized on the elbows and seams of the Domestic Water Lines of the Barrientes Career Center building	Room CC-3, NWC	NAD
46/14	Pipe Insulation Mastic – White	Utilized on the elbows and seams of the Domestic Water Lines of the Barrientes Career Center building	Room CC-5, NEC	NAD
47/15	Pipe Insulation Mastic – Grey	Utilized on the seams of the HVAC System Heater Vent in Room CC-1 of the Barrientes Career Center building	Room CC-1, SEC	NAD

## APPENDIX A

## LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
48/15	Pipe Insulation Mastic – Grey	Utilized on the seams of the HVAC System Heater Vent in Room CC-1 of the Barrientes Career Center building	Room CC-1, SEC	NAD
49/15	Pipe Insulation Mastic – Grey	Utilized on the seams of the HVAC System Heater Vent in Room CC-1 of the Barrientes Career Center building	Room CC-1, SEC	NAD
50/16	Window/Door Caulking – Grey	Utilized around the majority of the Exterior Windows and Doors of the Barrientes Career Center building	Room CC-1 Exterior, SEC	NAD
51/16	Window/Door Caulking – Grey	Utilized around the majority of the Exterior Windows and Doors of the Barrientes Career Center building	Room CC-1 Exterior, SEC	NAD
52/16	Window/Door Caulking – Grey	Utilized around the majority of the Exterior Windows and Doors of the Barrientes Career Center building	Room CC-1 Exterior, SEC	NAD
53/17	<b>Cement Board</b>	<b>Utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, and CC-6 of the Barrientes Career Center building</b>	<b>Room CC-1 Door, SEC</b>	<b>15% Chrysotile Detected</b>
54/17	<b>Cement Board</b>	<b>Utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, and CC-6 of the Barrientes Career Center building</b>	<b>Room CC-3 Door, NWC</b>	<b>15% Chrysotile Detected</b>
55/17	<b>Cement Board</b>	<b>Utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, and CC-6 of the Barrientes Career Center building</b>	<b>Room CC-1 Door, SEC</b>	<b>15% Chrysotile Detected</b>
56/18	Resilient Floor Tile – 1' x 1', White with Orange and Green Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-9, C-10, C-11, C-12, and C-13 of Building 2 of the Barrientes Career Center building	Room CC-10, NEC	NAD

## APPENDIX A

## LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
57/18	Resilient Floor Tile – 1' x 1', White with Orange and Green Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-9, C-10, C- 11, C-12, and C-13 of Building 2 of the Barrientes Career Center building	Room CC-12, NEC	NAD
58/18	Resilient Floor Tile – 1' x 1', White with Orange and Green Specks and Yellow Mastic	Utilized on the majority of the floors in Rooms CC-9, C-10, C- 11, C-12, and C-13 of Building 2 of the Barrientes Career Center building	Room 50V, NEC	NAD
59/19	Cove Base Mastic – Brown	Utilized on the lower walls of Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, 50V, Open Space, CT Space, CT Office, and Hallways of Building 2 of the Barrientes Career Center building	Room CC-9, NEC	NAD
60/19	Cove Base Mastic – Brown	Utilized on the lower walls of Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, 50V, Open Space, CT Space, CT Office, and Hallways of Building 2 of the Barrientes Career Center building	Room CC-11, NEC	NAD
61/19	Cove Base Mastic – Brown	Utilized on the lower walls of Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, 50V, Open Space, CT Space, CT Office, and Hallways of Building 2 of the Barrientes Career Center building	Room 42V, NEC	NAD
62/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room CC-9, SEC	NAD
63/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room CC-11, NEC	NAD

## APPENDIX A

## LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
64/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room CC-10, SWC	NAD
65/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room CC-12, SWC	NAD
66/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room 50V, NEC	NAD
67/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Hallway, NWC	NAD
68/20	CMU Texture – Beige and Green	Utilized on the majority of the walls in Rooms CC-9, CC-10, CC-11, CC-12, and CC-13 of Building 2 of the Barrientes Career Center building	Room CC-13, NWC	NAD
69/21	Drywall Construction – Beige and Green with Medium Texture	Utilized on the majority of the walls in Rooms CC-13, 41V, 42V, 50V, and the Hallways of Building 2 of the Barrientes Career Center building	Hallway, SEC	NAD
70/21	Drywall Construction – Beige and Green with Medium Texture	Utilized on the majority of the walls in Rooms CC-13, 41V, 42V, 50V, and the Hallways of Building 2 of the Barrientes Career Center building	Room 50V, NWC	NAD
71/21	Drywall Construction – Beige and Green with Medium Texture	Utilized on the majority of the walls in Rooms CC-13, 41V, 42V, 50V, and the Hallways of Building 2 of the Barrientes Career Center building	Room 42V, NWC	NAD

APPENDIX A

LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
72/21	Drywall Construction – Beige and Green with Medium Texture	Utilized on the majority of the walls in Rooms CC-13, 41V, 42V, 50V, and the Hallways of Building 2 of the Barrientes Career Center building	Room 41V, NWC	NAD
73/21	Drywall Construction – Beige and Green with Medium Texture	Utilized on the majority of the walls in Rooms CC-13, 41V, 42V, 50V, and the Hallways of Building 2 of the Barrientes Career Center building	Room CC-13, NWC	NAD
74/22	Paint on Brick – Beige	Utilized on portions of the walls in Rooms CC-9, Men’s Restroom, and Hallway of Building 2 of the Barrientes Career Center building	Men’s Restroom, NWC	NAD
75/22	Paint on Brick – Beige	Utilized on portions of the walls in Rooms CC-9, Men’s Restroom, and Hallway of Building 2 of the Barrientes Career Center building	Hallway, NWC	NAD
76/22	Paint on Brick – Beige	Utilized on portions of the walls in Rooms CC-9, Men’s Restroom, and Hallway of Building 2 of the Barrientes Career Center building	Room CC-9, NWC	NAD
77/23	Suspended Acoustical Ceiling Tile – 2’ x 4’, White with Large Fissures and Pinholes	Utilized on the ceilings throughout Building 2 of the Barrientes Career Center building	Room CC-12, NWC	NAD
78/23	Suspended Acoustical Ceiling Tile – 2’ x 4’, White with Large Fissures and Pinholes	Utilized on the ceilings throughout Building 2 of the Barrientes Career Center building	Hallway, NWC	NAD
79/23	Suspended Acoustical Ceiling Tile – 2’ x 4’, White with Large Fissures and Pinholes	Utilized on the ceilings throughout Building 2 of the Barrientes Career Center building	Hallway, SEC	NAD

APPENDIX A

LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
80/24	Resilient Floor Tile – 1' x 1', Beige with White Specks and Black Mastic	Utilized on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11, CT, Open Space, and Office of the Barrientes Career Center building	Room CC-9, NEC	5% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic
81/24	Resilient Floor Tile – 1' x 1', Beige with White Specks and Black Mastic	Utilized on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11, CT, Open Space, and Office of the Barrientes Career Center building	Office, NEC	5% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic
82/24	Resilient Floor Tile – 1' x 1', Beige with White Specks and Black Mastic	Utilized on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11, CT, Open Space, and Office of the Barrientes Career Center building	CT Office, NEC	5% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic
83/25	Resilient Floor Tile – 1' x 1', White with Blue Pattern and Yellow Mastic	Utilized on the floors in half of Room CC-9 of Building 2 of the Barrientes Career Center building	Room CC-9, SEC	NAD
84/25	Resilient Floor Tile – 1' x 1', White with Blue Pattern and Yellow Mastic	Utilized on the floors in half of Room CC-9 of Building 2 of the Barrientes Career Center building	Room CC-9, SEC	NAD
85/25	Resilient Floor Tile – 1' x 1', White with Blue Pattern and Yellow Mastic	Utilized on the floors in half of Room CC-9 of Building 2 of the Barrientes Career Center building	Room CC-9, NWC	NAD
86/26	HVAC Duct Mastic – Black	Utilized on the HVAC ducts above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building	Hallway, NWC	5% Chrysotile Detected

## APPENDIX A

## LIMITED ASBESTOS SURVEY SAMPLE SUMMARY

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093



SAMPLE NUMBER/ HOMOGENEOUS NUMBER	TYPE OF MATERIAL	HOMOGENEOUS AREA	SAMPLE LOCATION	LAB RESULTS
87/26	HVAC Duct Mastic – Black	Utilized on the HVAC ducts above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building	Hallway, NEC	5% Chrysotile Detected
88/26	HVAC Duct Mastic – Black	Utilized on the HVAC ducts above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building	Room CC-13, SEC	5% Chrysotile Detected
89/27	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms of Building 2 of the Barrientes Career Center building	Men's Restroom, NWC	NAD
90/27	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms of Building 2 of the Barrientes Career Center building	Men's Restroom, NWC	NAD
91/27	Ceramic Tile – Grout/Thinset	Utilized on the majority of the floors in Men's and Women's Restrooms of Building 2 of the Barrientes Career Center building	Men's Restroom, NWC	NAD
92/28	Door Frame Caulking	Utilized around the door frames in Building 2 of the Barrientes Career Center building	Building 2, SWC	NAD
93/28	Door Frame Caulking	Utilized around the door frames in Building 2 of the Barrientes Career Center building	Building 2, SEC	NAD
94/28	Door Frame Caulking	Utilized around the door frames in Building 2 of the Barrientes Career Center building	Building 2, SEC	NAD

NWC = Northwest Corner

SWC = Southwest Corner

HVAC = Heating, Ventilation, and Air Conditioning

NEC = Northeast Corner

SEC = Southeast Corner

NAD = No Asbestos Detected

APPENDIX B



CONFIRMED ASBESTOS-CONTAINING MATERIALS

Barrientes Career Center  
Edinburg, Texas  
Terracon Project No. 88207093

HOMO NO.	MATERIAL DESCRIPTION	HOMOGENEOUS AREA	PERCENT / TYPE ASBESTOS	NESHAP CLASSIFICATION	MATERIAL CONDITION	ESTIMATED QUANTITY
2	Resilient Floor Tile – 1' x 1', Green with White Specks and Black Mastic	Utilized on the floor throughout the Lounge of the Barrientes Career Center building	10% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic	Category I Non-Friable	Good	220 Square Feet
8	Drywall Construction – White with Smooth Texture	Utilized on the majority of the ceilings in the Restrooms adjacent west of Room CC-17 of the Barrientes Career Center building	2% Chrysotile Detected in the Texture	RACM	Good	560 Square Feet
17	Cement Board	Utilized on the upper door frames of Rooms CC-1, CC-2, CC-3, CC4, CC-5, and CC-6 of the Barrientes Career Center building	15% Chrysotile Detected	Category II Non-Friable	Good	340 Square Feet
24	Resilient Floor Tile – 1' x 1', Beige with White Specks and Black Mastic	Utilized on the majority of the floors in Rooms CC-10 Closet, half of CC-9, CC-11, CT, Open Space, and Office of the Barrientes Career Center building	5% Chrysotile Detected in the Floor Tile and 5% Chrysotile Detected in the Mastic	Category I Non-Friable	Good	1,420 Square Feet
26	HVAC Duct Mastic – Black	Utilized on the HVAC ducts above the ceiling grid in the Building 2 Rooms CC-9, CC-10, CC-11, CC-12, CC-13, 41V, 42V, and 50V of the Barrientes Career Center building	5% Chrysotile Detected	Category I Non-Friable	Good	830 Linear Feet

Category I: Includes asbestos-containing packings, gaskets, asphaltic roofing products, resilient flooring, pliable sealants and pliable mastics

Category II: Includes any non-friable asbestos-containing materials not categorized as Category I

Regulated Asbestos-containing Material (RACM): Friable asbestos-containing materials and/or Category I and II non-friable asbestos-containing materials which have a high probability of or have become friable by forces expected to be exerted in the course of a renovation or demolition process.



**APPENDIX C**

**ASBESTOS LABORATORY ANALYTICAL REPORTS**



# PLM Summary Report

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Terracon - Pharr	Lab Job No. :	20B-05986
Project :	ECISD Barrientes Career Center	Report Date :	06/16/2020
Project # :	88207093	Sample Date :	06/11/2020
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
1	1' x 1' Resilient Floor Tile (White with Red / Blue Specks), Mastic (Yellow), SEC of CC-6 Locker Room	None Detected - Floor Tile None Detected - Yellow Mastic
2	1' x 1' Resilient Floor Tile (White with Red / Blue Specks), Mastic (Yellow), SEC of CC-17	None Detected - Floor Tile None Detected - Yellow Mastic
3	1' x 1' Resilient Floor Tile (White with Red / Blue Specks), Mastic (Yellow), SEC of CC-19	None Detected - Floor Tile None Detected - Yellow Mastic
4	1' x 1' Resilient Floor Tile (Green with White Specks), Mastic (Black), SWC of Lounge	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
5	1' x 1' Resilient Floor Tile (Green with White Specks), Mastic (Black), SWC of Lounge	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
6	1' x 1' Resilient Floor Tile (Green with White Specks), Mastic (Black), SWC of Lounge	10% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
7	1' x 1' Resilient Floor Tile (White with Blue / Red Specks), Mastic (Yellow), SEC of CC-7	None Detected - Floor Tile None Detected - Yellow Mastic
8	1' x 1' Resilient Floor Tile (White with Blue / Red Specks), Mastic (Yellow), NWC of CC-8	None Detected - Floor Tile None Detected - Yellow Mastic
9	1' x 1' Resilient Floor Tile (White with Blue / Red Specks), Mastic (Yellow), SEC of CC-16	None Detected - Floor Tile None Detected - Yellow Mastic
10	Ceramic Tile, Grout / Thinset, NWC of CC-1 Restroom	None Detected - Grout None Detected - Thinset None Detected - Tile Spacer
11	Ceramic Tile, Grout / Thinset, SEC of CC-3	None Detected - Grout None Detected - Thinset
12	Ceramic Tile, Grout / Thinset, SWC of CC-5	None Detected - Grout None Detected - Thinset
13	Cove Base (Yellow), SWC of CC-6	None Detected - Yellow Mastic
14	Cove Base (Yellow), SEC of CC-18	None Detected - Yellow Mastic
15	Cove Base (Yellow), NEC of CC-8	None Detected - Yellow Mastic



# PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client :	Terracon - Pharr	Lab Job No. :	20B-05986
Project :	ECISD Barrientes Career Center	Report Date :	06/16/2020
Project # :	88207093	Sample Date :	06/11/2020
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
16	Ceramic Tile, Grout / Thinset, SEC of CC-2 Restroom	None Detected - Grout
17	Ceramic Tile, Grout / Thinset, SEC of CC-3 Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
18	Ceramic Tile, Grout / Thinset, SWC of Men's Restroom adjacent CC-17	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
19	Drywall Construction, Texture (Medium), Paint (White), SWC of CC-6	None Detected - Drywall Material None Detected - Texture None Detected - Paint
20	Drywall Construction, Texture (Medium), Paint (White), SWC of CC-6	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture None Detected - Paint
21	Drywall Construction, Texture (Medium), Paint (White), NWC of CC-6	None Detected - Drywall Material None Detected - Texture None Detected - Paint
22	Drywall Construction, Texture (Smooth), Paint (White), SWC of Men's Restroom	None Detected - Drywall Material None Detected - Paint
23	Drywall Construction, Texture (Smooth), Paint (White), SEC of Men's Restroom	None Detected - Drywall Material 2% Chrysotile - Texture None Detected - Paint
24	Drywall Construction, Texture (Smooth), Paint (White), NWC of Women's Restroom	None Detected - Drywall Material 2% Chrysotile - Texture None Detected - Paint
25	Drywall Construction, Texture (Medium), Paint (Beige), SEC of Lobby Office	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture None Detected - Paint



# PLM Summary Report

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Terracon - Pharr	Lab Job No. :	20B-05986
Project :	ECISD Barrientes Career Center	Report Date :	06/16/2020
Project # :	88207093	Sample Date :	06/11/2020
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
26	Drywall Construction, Texture (Medium), Paint (Beige), SEC of Closet Space, CC-7	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture None Detected - Paint
27	Drywall Construction, Texture (Medium), Paint (Beige), SWC of CC-7	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture None Detected - Paint
28	CMU Texture (Light Grey, Grey, White), SWC of CC-1	None Detected - CMU None Detected - Paint / Texture
29	CMU Texture (Light Grey, Grey, White), SWC of CC-2	None Detected - CMU None Detected - Paint / Texture
30	CMU Texture (Light Grey, Grey, White), SEC of CC-3	None Detected - CMU None Detected - Paint / Texture
31	CMU Texture (Light Grey, Grey, White), NWC of CC-5	None Detected - CMU None Detected - Paint / Texture
32	CMU Texture (Light Grey, Grey, White), NEC of CC-6	None Detected - CMU None Detected - Paint / Texture
33	CMU Texture (Light Grey, Grey, White), SEC of CC-7	None Detected - CMU None Detected - Paint / Texture
34	CMU Texture (Light Grey, Grey, White), SWC of CC-8	None Detected - CMU None Detected - Paint / Texture
35	2' x 2' Suspended Acoustic Ceiling Tile (White, Fissures and Pinholes), NEC of CC-6 Office	None Detected - Acoustic Tile
36	2' x 2' Suspended Acoustic Ceiling Tile (White, Fissures and Pinholes), NEC of CC-6 Office	None Detected - Acoustic Tile
37	2' x 2' Suspended Acoustic Ceiling Tile (White, Fissures and Pinholes), NEC of CC-6 Office	None Detected - Acoustic Tile



## PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client : Terracon - Pharr	Lab Job No. : 20B-05986
Project : ECISD Barrientes Career Center	Report Date : 06/16/2020
Project # : 88207093	Sample Date : 06/11/2020
Identification : Asbestos, Bulk Sample Analysis	
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
38	2' x 4' Suspended Acoustic Ceiling Tile (White, Large Fissures and Pinholes), South Middle Hallway	None Detected - Acoustic Tile
39	2' x 4' Suspended Acoustic Ceiling Tile (White, Large Fissures and Pinholes), NWC of CC-16	None Detected - Acoustic Tile
40	2' x 4' Suspended Acoustic Ceiling Tile (White, Large Fissures and Pinholes), NEC of CC-7	None Detected - Acoustic Tile
41	AC Duct, Mastic (Grey), SEC of CC-1	None Detected - Grey Mastic
42	AC Duct, Mastic (Grey), NEC of CC-2	None Detected - Grey Mastic
43	AC Duct, Mastic (Grey), NEC of CC-5	None Detected - Grey Mastic
44	Pipe Mastic (White), NEC of CC-1	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap None Detected - Cotton Wrap None Detected - White Mastic
45	Pipe Mastic (White), NWC of CC-3	None Detected - Thermal Insulation None Detected - Cotton Wrap None Detected - White Mastic
46	Pipe Mastic (White), NEC of CC-5	None Detected - Thermal Insulation 1 None Detected - Thermal Insulation 2 None Detected - Paper / Foil Wrap None Detected - Cotton Wrap None Detected - White Mastic
47	Mastic (Grey), SEC of CC-1	None Detected - Grey Mastic
48	Mastic (Grey), SEC of CC-1	None Detected - Grey Mastic
49	Mastic (Grey), SEC of CC-1	None Detected - Grey Mastic
50	Window / Door Caulking, SEC of CC-1	None Detected - Caulking
51	Window / Door Caulking, NEC of CC-2	None Detected - Caulking
52	Window / Door Caulking, SEC of CC-5	None Detected - Caulking



## PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client : Terracon - Pharr	Lab Job No. : 20B-05986
Project : ECISD Barrientes Career Center	Report Date : 06/16/2020
Project # : 88207093	Sample Date : 06/11/2020
Identification : Asbestos, Bulk Sample Analysis	
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	

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On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
53	Cement Board, SEC of CC-1	15% Chrysotile - Cement Asbestos Board
54	Cement Board, NWC of CC-3	15% Chrysotile - Cement Asbestos Board
55	Cement Board, SEC of CC-4	15% Chrysotile - Cement Asbestos Board
56	1' x 1' Resilient Floor Tile (White, Orange and Green Specks), Mastic (Yellow), NEC of CC-10	None Detected - Floor Tile None Detected - Yellow Mastic
57	1' x 1' Resilient Floor Tile (White, Orange and Green Specks), Mastic (Yellow), NEC of CC-12	None Detected - Floor Tile None Detected - Yellow Mastic
58	1' x 1' Resilient Floor Tile (White, Orange and Green Specks), Mastic (Yellow), NEC of Room 50V	None Detected - Floor Tile None Detected - Yellow Mastic
59	Cove Base, Mastic (Brown), NEC of CC-9	None Detected - Brown Mastic
60	Cove Base, Mastic (Brown), NEC of CC-11	None Detected - Cove Base None Detected - Brown Mastic
61	Cove Base, Mastic (Brown), NEC of 42V	None Detected - Cove Base None Detected - Brown Mastic
62	CMU Block, Texture, Paint (Beige Green), SEC of CC-9	No CMU None Detected - Texture None Detected - Paint
63	CMU Block, Texture, Paint (Beige Green), NEC of CC-11	No CMU None Detected - Texture None Detected - Paint
64	CMU Block, Texture, Paint (Beige Green), SWC of CC-10	No CMU None Detected - Mortar None Detected - Texture None Detected - Paint



## PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client : Terracon - Pharr	Lab Job No. : 20B-05986
Project : ECISD Barrientes Career Center	Report Date : 06/16/2020
Project # : 88207093	Sample Date : 06/11/2020
Identification : Asbestos, Bulk Sample Analysis	
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	

Page 6 of 8

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
65	CMU Block, Texture, Paint (Beige Green), SWC of CC-12	No CMU None Detected - Mortar None Detected - Texture None Detected - Paint
66	CMU Block, Texture, Paint (Beige Green), NEC of Room 50V	None Detected - CMU None Detected - Texture None Detected - Paint
67	CMU Block, Texture, Paint (Beige Green), NWC of	None Detected - CMU None Detected - Texture None Detected - Paint
68	CMU Block, Texture, Paint (Beige Green), NWC of CC-13	None Detected - CMU None Detected - Texture None Detected - Paint
69	Drywall Construction, Texture (Medium), Paint (Beige, Green), SEC of Hallway	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
70	Drywall Construction, Texture (Medium), Paint (Beige, Green), NWC of 50V	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
71	Drywall Construction, Texture (Medium), Paint (Beige, Green), NWC of 42V	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
72	Drywall Construction, Texture (Medium), Paint (Beige, Green), NWC of 41V	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
73	Drywall Construction, Texture (Medium), Paint (Beige, Green), NEC of CC-13	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
74	Brick Paint (Beige), NWC of Men's Restroom	None Detected - Texture None Detected - Paint



## PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client : Terracon - Pharr	Lab Job No. : 20B-05986
Project : ECISD Barrientes Career Center	Report Date : 06/16/2020
Project # : 88207093	Sample Date : 06/11/2020
Identification : Asbestos, Bulk Sample Analysis	
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
75	Brick Paint (Beige), NWC of Hallway	None Detected - Texture None Detected - Paint
76	Brick Paint (Beige), NWC of CC-9	None Detected - Texture None Detected - Paint
77	2' x 4' Suspended Acoustic Ceiling Tile (White with Fissure and Pinholes), CC-12 NWC	None Detected - Acoustic Tile
78	2' x 4' Suspended Acoustic Ceiling Tile (White with Fissure and Pinholes), NWC of Hallway	None Detected - Acoustic Tile
79	2' x 4' Suspended Acoustic Ceiling Tile (White with Fissure and Pinholes), SEC of Hallway	None Detected - Acoustic Tile
80	1' x 1' Resilient Floor Tile (Beige with White Specks), Mastic (Black), NEC of CC-9	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
81	1' x 1' Resilient Floor Tile (Beige with White Specks), Mastic (Black), NEC of Office	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
82	1' x 1' Resilient Floor Tile (Beige with White Specks), Mastic (Black), NEC of CT Office	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
83	1' x 1' Resilient Floor Tile (White / Blue Pattern), Mastic (Yellow), SEC of CC-9	None Detected - Floor Tile None Detected - Yellow Mastic
84	1' x 1' Resilient Floor Tile (White / Blue Pattern), Mastic (Yellow), SEC of CC-9	None Detected - Floor Tile None Detected - Yellow Mastic
85	1' x 1' Resilient Floor Tile (White / Blue Pattern), Mastic (Yellow), NWC of CC-9	None Detected - Floor Tile 1 None Detected - Yellow Mastic None Detected - Floor Tile 2 None Detected - Yellow Mastic
86	AC Duct, Mastic (Black), NWC of Hallway	None Detected - Paper / Foil Wrap 5% Chrysotile - Black Mastic
87	AC Duct, Mastic (Black), NEC of Hallway	None Detected - Paper / Foil Wrap 5% Chrysotile - Black Mastic





# PLM Summary Report

2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0  
TDSHS License No. 30-0084

Client :	Terracon - Pharr	Lab Job No. :	20B-05986
Project :	ECISD Barrientes Career Center	Report Date :	06/16/2020
Project # :	88207093	Sample Date :	06/11/2020
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/15/2020, ninety four (94) bulk material samples were submitted by Tomas Cruz of Terracon - Pharr for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
88	AC Duct, Mastic (Black), SEC of CC-13	None Detected - Paper / Foil Wrap 5% Chrysotile - Black Mastic
89	Ceramic Tile (Grout / Thinset), NWC of Men's Restroom	None Detected - Ceramic Tile None Detected - Thinset
90	Ceramic Tile (Grout / Thinset), NWC of Men's Restroom	None Detected - Ceramic Tile None Detected - Thinset
91	Ceramic Tile (Grout / Thinset), NWC of Men's Restroom	None Detected - Ceramic Tile None Detected - Thinset
92	Door Caulking, SWC of Building 2	None Detected - Caulking
93	Door Caulking, SEC of Building 2	None Detected - Caulking
94	Door Caulking, SEC of Building 2	None Detected - Caulking

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced, except in full, without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Daniel Farley, Debra O'Sullivan

Lab Manager : Heather Lopez

Approved Signatory :

Lab Director : Bruce Crabb

Approved Signatory :

Thank you for choosing Moody Labs

Moody Labs  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
1	Floor Tile (White)	97%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
2	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
3	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
4	Floor Tile (Green)	99%	Chrysotile	10%	06/16	DO
			Calcite / Vinyl Binders	90%		
	Black Mastic (Black)	1%	Chrysotile	5%		
			Tar Binders	95%		
5	Floor Tile (Green)	99%	Chrysotile	10%	06/16	DO
			Calcite / Vinyl Binders	90%		
	Black Mastic (Black)	1%	Chrysotile	5%		
			Tar Binders	95%		
6	Floor Tile (Green)	99%	Chrysotile	10%	06/16	DO
			Calcite / Vinyl Binders	90%		
	Black Mastic (Black)	1%	Chrysotile	5%		
			Tar Binders	95%		
7	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
8	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
9	Floor Tile (White)	99%	Calcite / Vinyl Binders	100%	06/16	DO
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
10	Grout (White)	35%	Calcite / Binders	100%	06/16	DO
	Thinset (Grey)	45%	Aggregate	65%		
			Cement Binders	35%		
	Tile Spacer (Cream)	20%	Calcite / Vinyl Binders	100%		

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**PLM Detail Report**  
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NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
11	Grout (White)	50%	Calcite / Binders	100%	06/16	DO
	Thinset (Off-White)	50%	Aggregate Cement Binders	65% 35%		
12	Grout (White)	40%	Calcite / Binders	100%	06/16	DO
	Thinset (Off-White)	60%	Aggregate Cement Binders	65% 35%		
13	Yellow Mastic (Yellow)	100%	Calcite	15%	06/16	DO
			Glue Binders	85%		
14	Yellow Mastic (Yellow)	100%	Calcite	15%	06/16	DO
			Glue Binders	85%		
15	Yellow Mastic (Yellow)	100%	Calcite	15%	06/16	DO
			Glue Binders	85%		
16	Grout (White)	100%	Calcite / Binders	100%	06/16	DO
17	Ceramic Tile (White)	35%	Sintered Clays	100%	06/16	DO
	Grout (White)	30%	Calcite / Binders	100%		
	Thinset (White)	35%	Aggregate Cement Binders	65% 35%		
18	Ceramic Tile (White)	40%	Sintered Clays	100%	06/16	DO
	Grout (White)	5%	Calcite / Binders	100%		
	Thinset (White)	55%	Aggregate Cement Binders	65% 35%		
19	Drywall Material (Light Pink)	44%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Texture (White)	50%	Calcite / Talc / Binders	100%		
Paint (White)	1%	Pigment / Binders	100%			

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**PLM Detail Report**  
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Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
20	Drywall Material (White)	80%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	9%	Cellulose Fibers	100%		
	Joint Compound (White)	5%	Calcite / Talc / Binders	100%		
	Texture (White)	5%	Calcite / Talc / Binders	100%		
Paint (White)	1%	Pigment / Binders	100%			
21	Drywall Material (Light Pink)	54%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Texture (White)	35%	Calcite / Talc / Binders	100%		
Paint (White)	1%	Pigment / Binders	100%			
22	Drywall Material (White)	94%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
	Gypsum / Binders	97%				
DW Paper Facing (Tan)	5%	Cellulose Fibers	100%			
Paint (White)	1%	Pigment / Binders	100%			
23	Drywall Material (White)	79%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Texture (White)	10%	Chrysotile	2%		
	Paint (White)	1%	Calcite / Talc / Binders	98%		
			Pigment / Binders	100%		

Moody Labs  
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**PLM Detail Report**  
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NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

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 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
24	Drywall Material (White)	79%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Texture (White)	10%	Chrysotile	2%		
	Paint (White)	1%	Calcite / Talc / Binders	98%		
25	Drywall Material (White)	30%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	9%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		
Paint (Beige)	1%	Pigment / Binders	100%			
26	Drywall Material (White)	30%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	9%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		
Paint (Beige)	1%	Pigment / Binders	100%			

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**PLM Detail Report**  
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 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
27	Drywall Material (White)	30%	Glass Wool Fibers	2%	06/16	DO
			Cellulose Fibers	1%		
			Mica	<1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	9%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		
Paint (Beige)	1%	Pigment / Binders	100%			
28	CMU (Grey)	25%	Aggregate	65%	06/16	DO
	Paint / Texture (White/Grey)	75%	Cement Binders	35%		
			Calcite	25%		
			Pigment / Binders	75%		
29	CMU (Grey)	25%	Aggregate	65%	06/16	DO
	Paint / Texture (White/Grey)	75%	Cement Binders	35%		
			Calcite	25%		
			Pigment / Binders	75%		
30	CMU (Grey)	10%	Aggregate	65%	06/16	DO
	Paint / Texture (White/Grey)	90%	Cement Binders	35%		
			Calcite	25%		
			Pigment / Binders	75%		
31	CMU (Grey)	25%	Aggregate	65%	06/16	DO
	Paint / Texture (White/Grey)	75%	Cement Binders	35%		
			Calcite	25%		
			Pigment / Binders	75%		
32	CMU (Grey)	15%	Aggregate	65%	06/16	DO
	Paint / Texture (White)	85%	Cement Binders	35%		
			Calcite	25%		
			Pigment / Binders	75%		

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**PLM Detail Report**  
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 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
33	CMU (Grey)	5%	Aggregate	65%	06/16	DO
			Cement Binders	35%		
	Paint / Texture (White/Green)	95%	Calcite	25%		
			Pigment / Binders	75%		
34	CMU (Grey)	10%	Aggregate	65%	06/16	DO
			Cement Binders	35%		
	Paint / Texture (White)	90%	Calcite	25%		
			Pigment / Binders	75%		
35	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/16	DO
			Mineral Wool Fibers	30%		
			Perlite	20%		
36	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/16	DO
			Mineral Wool Fibers	30%		
			Perlite	20%		
37	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/16	DO
			Mineral Wool Fibers	30%		
			Perlite	20%		
38	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	65%	06/16	DO
			Mineral Wool Fibers	15%		
			Perlite	20%		
39	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	65%	06/16	DO
			Mineral Wool Fibers	15%		
			Perlite	20%		
40	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	65%	06/16	DO
			Mineral Wool Fibers	15%		
			Perlite	20%		
41	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		

Moody Labs  
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**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
42	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		
43	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		
44	Thermal Insulation (Light Grey)	10%	Mineral Wool Fibers	20%	06/16	DF
			Binders / Fillers	80%		
	Paper / Foil Wrap (Tan / Silver)	35%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
45	Cotton Wrap (Off-White)	40%	Cotton Fibers	100%	06/16	DF
	White Mastic (Off-White)	15%	Pigment / Binders	100%		
	Thermal Insulation (Light Grey)	20%	Mineral Wool Fibers	20%		
46	Thermal Insulation 1 (Yellow)	15%	Mineral Wool Fibers	95%	06/16	DF
			Resin Binders	5%		
	Thermal Insulation 2 (Light Grey)	10%	Mineral Wool Fibers	20%		
47	Paper / Foil Wrap (Tan / Silver)	30%	Cellulose Fibers	60%	06/16	DF
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Cotton Wrap (Off-White)	30%	Cotton Fibers	100%		
	White Mastic (Off-White)	15%	Pigment / Binders	100%		
47	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		



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**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
48	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		
49	Grey Mastic (Grey)	100%	Synthetic Fibers	3%	06/16	DF
			Calcite	57%		
			Glue Binders	40%		
50	Caulking (Grey)	100%	Binders / Fillers	100%	06/16	DF
51	Caulking (Grey)	100%	Binders / Fillers	100%	06/16	DF
52	Caulking (Grey)	100%	Binders / Fillers	100%	06/16	DF
53	Cement Asbestos Board (Grey)	100%	Chrysotile	15%	06/16	DF
			Cement Binders	85%		
54	Cement Asbestos Board (Grey)	100%	Chrysotile	15%	06/16	DF
			Cement Binders	85%		
55	Cement Asbestos Board (Grey)	100%	Chrysotile	15%	06/16	DF
			Cement Binders	85%		
56	Floor Tile (Light Grey)	99%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
57	Floor Tile (Light Grey)	100%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
58	Floor Tile (Light Grey)	99%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
59	Brown Mastic (Brown)	100%	Glue Binders	100%	06/16	DF
60	Cove Base (Brown)	99%	Calcite / Vinyl Binders	100%	06/16	DF
	Brown Mastic (Brown)	1%	Glue Binders	100%		
61	Cove Base (Brown)	95%	Calcite / Vinyl Binders	100%	06/16	DF
	Brown Mastic (Brown)	5%	Glue Binders	100%		

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**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
62	No CMU				06/16	DF
	Texture (White / Yellow)	95%	Calcite / Talc / Binders	100%		
	Paint (Beige)	5%	Pigment / Binders	100%		
63	No CMU				06/16	DF
	Texture (White / Yellow)	85%	Calcite / Talc / Binders	100%		
	Paint (Beige)	15%	Pigment / Binders	100%		
64	No CMU				06/16	DF
	Mortar (Light Grey)	30%	Aggregate	65%		
			Cement Binders	35%		
	Texture (White / Yellow)	65%	Calcite / Talc / Binders	100%		
65	No CMU				06/16	DF
	Mortar (Light Grey)	15%	Aggregate	65%		
			Cement Binders	35%		
	Texture (White / Yellow)	80%	Calcite / Talc / Binders	100%		
66	CMU (Grey)	5%	Aggregate	65%	06/16	DF
			Cement Binders	35%		
	Texture (White / Yellow)	35%	Calcite / Talc / Binders	100%		
	Paint (Yellow)	60%	Pigment / Binders	100%		
67	CMU (Grey)	5%	Aggregate	65%	06/16	DF
			Cement Binders	35%		
	Texture (White / Yellow)	35%	Calcite / Talc / Binders	100%		
	Paint (Yellow)	60%	Pigment / Binders	100%		
68	CMU (Grey)	3%	Aggregate	65%	06/16	DF
			Cement Binders	35%		
	Texture (White / Yellow)	52%	Calcite / Talc / Binders	100%		
	Paint (Off-White)	45%	Pigment / Binders	100%		

Moody Labs  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
69	Drywall Material (Light Pink)	45%	Cellulose Fibers	5%	06/16	DF
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
	Texture (White)	35%	Calcite / Talc / Binders	100%		
70	Drywall Material (Light Pink)	65%	Cellulose Fibers	5%	06/16	DF
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	5%	Cellulose Fibers	100%		
	Joint Compound (White)	5%	Calcite / Talc / Binders	100%		
	Texture (White)	25%	Calcite / Talc / Binders	100%		
71	Drywall Material (Light Pink)	50%	Cellulose Fibers	5%	06/16	DF
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	10%	Calcite / Talc / Binders	100%		
72	Drywall Material (Light Pink)	40%	Glass Wool Fibers	2%	06/16	DF
			Mica	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	25%	Calcite / Talc / Binders	100%		
	Texture (White)	25%	Calcite / Talc / Binders	100%		
73	Drywall Material (Light Pink)	15%	Glass Wool Fibers	2%	06/16	DF
			Gypsum / Binders	98%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	15%	Calcite / Talc / Binders	100%		
	Texture (White)	45%	Calcite / Talc / Binders	100%		
74	Texture (White)	85%	Calcite / Talc / Binders	100%	06/16	DF
	Paint (Off-White)	15%	Pigment / Binders	100%		
75	Texture (White)	85%	Calcite / Talc / Binders	100%	06/16	DF
	Paint (Off-White)	15%	Pigment / Binders	100%		

Moody Labs  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
76	Texture (White)	85%	Calcite / Talc / Binders	100%	06/16	DF
	Paint (Off-White)	15%	Pigment / Binders	100%		
77	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	60%	06/16	DF
			Mineral Wool Fibers	10%		
			Perlite	30%		
78	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	60%	06/16	DF
			Mineral Wool Fibers	10%		
			Perlite	30%		
79	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	60%	06/16	DF
			Mineral Wool Fibers	10%		
			Perlite	30%		
80	Floor Tile (Light Grey)	100%	Chrysotile	5%	06/16	DF
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	<1%	Chrysotile	5%		
			Tar Binders	95%		
81	Floor Tile (Light Grey)	98%	Chrysotile	5%	06/16	DF
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
82	Floor Tile (Light Grey)	98%	Chrysotile	5%	06/16	DF
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
83	Floor Tile (Blue)	100%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
84	Floor Tile (Off-White)	100%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		

Moody Labs  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

**PLM Detail Report**  
**Supplement to PLM Summary Report**

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
85	Floor Tile 1 (Blue)	30%	Calcite / Vinyl Binders	100%	06/16	DF
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
	Floor Tile 2 (Off-White)	70%	Calcite / Vinyl Binders	100%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
86	Paper / Foil Wrap (Tan / Silver)	20%	Cellulose Fibers	60%	06/16	DF
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Black Mastic (Black)	80%	Chrysotile	5%		
			Cellulose Fibers	2%		
			Calcite	33%		
			Tar Binders	60%		
87	Paper / Foil Wrap (Tan / Silver)	50%	Cellulose Fibers	60%	06/16	DF
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Black Mastic (Black)	50%	Chrysotile	5%		
			Cellulose Fibers	2%		
			Calcite	33%		
			Tar Binders	60%		
88	Paper / Foil Wrap (Tan / Silver)	5%	Cellulose Fibers	60%	06/16	DF
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	Black Mastic (Black)	95%	Chrysotile	5%		
			Cellulose Fibers	2%		
			Calcite	33%		
			Tar Binders	60%		
89	Ceramic Tile (Yellow)	60%	Sintered Clays	100%	06/16	DF
	Thinset (Grey)	40%	Calcite / Binders	100%		
90	Ceramic Tile (Yellow)	5%	Sintered Clays	100%	06/16	DF
	Thinset (Grey)	95%	Calcite / Binders	100%		

Moody Labs  
 2051 Valley View Lane  
 Farmers Branch, TX 75234 Phone: (972) 241-8460

**PLM Detail Report**  
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0  
 TDSHS License No. 30-0084

Client : Terracon - Pharr  
 Project : ECISD Barrientes Career Center  
 Project # : 88207093

Lab Job No. : 20B-05986  
 Report Date : 06/16/2020

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
91	Ceramic Tile (Yellow)	2%	Sintered Clays	100%	06/16	DF
	Thinset (Grey)	98%	Calcite / Binders	100%		
92	Caulking (Brown)	100%	Calcite	50%	06/16	DF
			Binders / Fillers	50%		
93	Caulking (Brown)	100%	Calcite	50%	06/16	DF
			Binders / Fillers	50%		
94	Caulking (Brown)	100%	Calcite	50%	06/16	DF
			Binders / Fillers	50%		



Chain of

Lab Job #	<u>206-05986</u>
Lab Job #	<u>94 PLM</u>
Lab Job #	_____

\*Please call in advance for immediate, after-hour, & weekend pricing & availability.\*

Page \_\_\_ of \_\_\_  
**ASBESTOS PLM**

Bulk  Immediate  1 day  2 day  3 day  5 day  
 **Analyze All**  **Positive Stop**

**PCM Air (7400)**  
 Immediate  1 day  2 day  3 day  5 day

**TOTAL DUST (0500/0600)**  
 1 day  2 day

**ASBESTOS TEM**  
Air AHERA Method  6 hr  12 hr  24 hr  
Air 7402 (Modified)  1 day  2 day  3 day  
Bulk  1 day  2 day  3 day  5 day  
Water/Wipe/Micro Vac  1 day  2 day  3 day

**Analyze Blanks**  Yes  No  
**MOLD**  
Direct Exam  Immediate  1 day  2 day  
Standard Air  Immediate  1 day  2 day  
Expanded Air  Immediate  1 day  2 day  
Culture\*\*  10-14 days  
**Analyze Blanks**  Yes  No

\*\*Turnaround of Culture Samples subject to Culture Growth\*\*

**BACTERIA\*\***  
Colony Counts (CC)  3 day  5 day  
CC + Gram Stain  3 day  5 day  
Coliform & E. coli (P/A)  2-3 day  
Legionella  14 days

**OTHER:** \_\_\_\_\_

**Billing Company / City:** Pharr  
**Submitter's Company:** Terracon  
**Submitter's Name:** Tomas Cruz  
**Project:** ECISD Barrientes Carrer Center  
**Contact Information: Name:** Tomas Cruz  
**E-mail Results to:** tomas.cruz@terracon.com, epalacios@terracon.com  
**Invoice Address:** tomas.cruz@terracon.com, epalacios@terracon.com

**# of Samples:** 94  
**Sample Date:** 06/11/2020  
**Project #:** 88207093  
**Phone #:** 956.283.8254  
**Mobile #:** 956.466.7769  
**Fax #:** 956.283.8279  
**P.O. #:** 88207093

\*Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees\*  
Notes: \_\_\_\_\_

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
----------	--------------------	-----------------------------	------------------

Please Refer to the Attached Sample Logs			

Released By: <u>Tomas Cruz</u>	Date / Time: <u>6-12-2020 @ 17:02</u>	Received By: <u>[Signature]</u>	Date / Time: <u>6/15/20 9:58</u>
Released By:	Date / Time:	Received By:	Date / Time:

206-05986

# Terracon

## Homogeneous Area Descriptions

Building: Barrientes Career Center

Project Number 88207093

Date 6-11-2020

Inspector G.T

Sample/ HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
1.	RFT-1x1' white with red/blue streaks Yellow Mastic	Utilized on select floors of Bldg - CC6, CC17, CC18, CC19 CC6 - Office, Locker Room	SEC of CC6 Locker Room			
2.	N	N	N SEC of CC-17			
3.	N	N	N SEC of CC-19			
4.	RFT-1x1' green with white speckles - Black Mastic	Utilized on select floor of Bldg - Lounge only.	SWC of Lounge			
5.	N	N				
6.	N	N				
7.	RFT 1x1' - White with Blue/Red specks Yellow Mastic	Utilized on select floor of Bldg - Room CC-7, CC-8, CC16	SEC of CC-7			
8.	N	N	N NWC of CC-8			
9.	N	N	N SEC of CC-16			
10.	Ceramic Tile grout/thin set	Utilized on select floors of Bldg - Men's & Women's Rest Room Hand wash area's at CC-1, CC-2 CC-3, CC-7, CC-5, Men's & Women's Restrooms to CC-17	NWC of CC-1 Rest Room			



206-05986

# Terracon

## Homogeneous Area Descriptions

Building: Barclay's Caser's Center

Project Number 88207093

Date 6-11-2020

Inspector G.T.

Sample/ HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
11.	N	N	N SEC of CC-3			
12.	N	N	N SWC of CC-5			
13.	Cove Base- Yellow	Utilized on select walls of Bldg CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, Lounge	SWC of CC-6			
14.	N	N	N SEC of CC-18			
15.	N	N	N NEC of CC-8			
16.	Ceramic tile- grout thin set	Utilized on select walls of Men's + Women's Restroom at CC-1, CC-2, CC-3, CC-4, CC-5, Men's + Women's Restroom adj to CC-17.	SEC of CC-2 RR.			
17.	N	N	N SEC of CC-3 RR.			
18.	N	N	N SWC of Men's RR adj CC-17			
19.	DWC - Medium texture - white paint.	Utilized on select wall of Bldg - CC-6 shop office space only.	SWC of CC-6			
20.	N	N	N SWC of CC-6			

2015-05986

# Terracon

## Homogeneous Area Descriptions

Building: Barrientes Career Center

Project Number 88207093

Date 6-11-2000 Inspector G.T.

Sample/ HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
21.	N DWC - smooth texture - white paint.	N Utilized on select ceiling of Bldg - Men's + Women's Rest Room - (adj.) to CC-17,	N NWC of CC-6			
22.	N DWC - smooth texture - white paint.	N Utilized on select ceiling of Bldg - Men's + Women's Rest Room - (adj.) to CC-17,	N SWC of Men's RR			
23.	N DWC - smooth texture - white paint.	N Utilized on select ceiling of Bldg - Men's + Women's Rest Room - (adj.) to CC-17,	N SEC of Men's RR			
24.	N DWC - smooth texture - white paint.	N Utilized on select ceiling of Bldg - Men's + Women's Rest Room - (adj.) to CC-17,	N NWC of Women's RR			
25.	N DWC - Medium texture - beige paint,	N Utilized on select walls of Bldg - Lobby, Culinary Art's CC-7	N SEC of Lobby Office			
26.	N DWC - Medium texture - beige paint,	N Utilized on select walls of Bldg - Lobby, Culinary Art's CC-7	N SEC of Closet Space - CC-7			
27.	N DWC - Medium texture - beige paint,	N Utilized on select walls of Bldg - Lobby, Culinary Art's CC-7	N SWC of CC-7			
28.	N CMU texture - light gray, gray, white,	N Utilized on select walls of Bldg - CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, Lounge, Rest Room's, TR, Storage Room	N SWC of CC-1			
29.	N CMU texture - light gray, gray, white,	N Utilized on select walls of Bldg - CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, Lounge, Rest Room's, TR, Storage Room	N SWC of CC-3			
30.	N CMU texture - light gray, gray, white,	N Utilized on select walls of Bldg - CC-1, CC-2, CC-3, CC-4, CC-5, CC-6, CC-7, CC-8, CC-16, CC-17, CC-18, CC-19, Lounge, Rest Room's, TR, Storage Room	N SEC of CC-3			

206-05984

# Terracon

## Homogeneous Area Descriptions

Building: Barriontes Career Center

Project Number 88007093

Date 6-11-2020

Inspector G.T.

Sample/ HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
31.	N	N	N NWC of CC-5			
32.	N	N	N NEC of CC-6			
33.	N	N	N SEC of CC-7			
34.	N	N	N BWC of CC-8			
35.	SACT-2'x2'- white- fisher's + pinholes.	Utilized on select ceiling of Bldg - CC-6 office	NEC of CC-6 office			
36.	N	N				
37.	N	N				
38.	SACT-2'x4' white fisher's + pinholes.	Utilized on select ceiling of Bldg -	South middle Hallway			
39.	N	N	NWC of CC-16			
40.	N	N	NEC of CC-7			

206-05996

# Terracon

## Homogeneous Area Descriptions

Building: Barricantes Career Center

Project Number 88207093

Date 6-11-2020

Inspector G.T

Sample/ HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
41.	AC Duct - Grey Mastic	Utilized on select AC Duct Vent Exits. only.	SEC of CC-1			
42.	N	N	N NEC of CC-2			
43.	N	N	N NEC of CC-5			
44.	Pipe Mastic - White	Utilized on domestic water lines, elbow with hard white packing	NEC of CC-1			
45.	N	N	N NWC of CC-3			
46.	N	N	N NEC of CC-5			
47.	Grey Mastic	Utilized on select vent pipe - Heater at CC-1 only.	SEC of CC-1			
48.	N	N	N			
49.	N	N	N			
50.	Window/Door caulking	Utilized on select exterior Windows + Doors of Bldg.	SEC of CC-1			

208-657914

# Terracon

## Homogeneous Area Descriptions

Building: Barrientes Career Center

Project Number 8807093

Date 6-11-2020

Inspector G.T

Sample/HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
51.	W	W	W NEC of CC-2			
52.	W	W	W SEC - of CC5			
53.	Cement Board	Utilized on select Door frames CC-1, CC-2, CC-3, CC-4, CC-5, CC-6 Sdy.	SEC of CC-1			
54.	W	W	W NWC of CC-3			
55.	W	W	W SEC of CC-4			
56.	RFT-1X1'-White Plaster + green specks - 1/2" Mortar Mastic	Utilized of Sdy @ - CC-9, CC-10, CC-11, CC-12, CC-13,	W NEC of CC-10			
57.	W	W	W NEC of CC-12			
58.	W	W	W NEC of Room 50V			
59.	Cove Base - Brown Mastic	Utilized Through out walls of Sdy @ - CC-9, CC-10, CC-11, CC-12, CC-13, Room 41V, 42V, 50V,	W NEC of CC-9			
60.	W	W open space, spaces, CT, CT office, Hallways.	W NEC - CC-11			

206-05784

# Terracon

## Homogeneous Area Descriptions

Building: Barrientes Career Center

Project Number: 88207093

Date: 6-11-2020

Inspector: G.T

Sample/HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
61.	N N	N	N NEC of 42V			
62.	CMU Block Texture - beige Green paint N	Utilized on select walls of Bldg 2 - CC-9, CC-10, CC-11, CC-12, CC-13, N	SEC of CC-9			
63.	N	N	N NEC of CC-11			
64.	N	N	N SWC of CC-10			
65.	N	N	N SWC of CC-12			
66.	N	N	N NEC of Room 50V			
67.	N	N	N NEC of Hallway			
68.	N	N	N NWC of CC-13			
69.	Dur - Medium texture - beige paint, green N	Utilized on select walls of Bldg 2 - CC-13, 41V, 42V, 50V N	SEC of Hallway			
70.	N	N	N Hallway, SEC of Hallway N			
			NWL of 50V			

206-059 84

# Terracon

## Homogeneous Area Descriptions

Building: Barricantes Caser Center

Project Number 8807093

Date 6-11-2020

Inspector G.T.

Sample/HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ID, D, SD)	Lab Results
71.	N	N	NWC of 42V			
72.	N	N	NWC of 41V			
73.	N	N	NWC of CC13			
74.	Brick Paint - bringer	Utilized on select walls of Bldg 2 - CC-9. - Hallway - Men's Rest Room	NWC of Men's Rest Room			
75.	N	N	NWC of Hallway			
76.	N	N	NWC of CC-9			
77.	SAF-T-2X4' white with fine + pinholes.	Utilized through out ceiling of Bldg 2.	CC-12-NWC			
78.	N	N	NWC of Hallway			
79.	N	N	SEC of Hallway			
80.	RT 1X1 beam white speck - Black Mastic	Utilized on select floors of Bldg 2 - CC10 - closet, CC-9, half room, CC-11, office, CT, open space	NWC of CC-9			

206-05784

# Terracon

## Homogeneous Area Descriptions

Building: Barricades Carcer Center

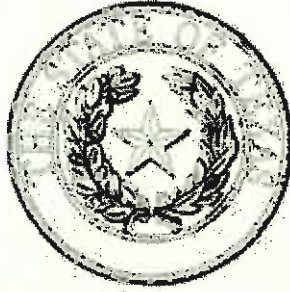
Project Number 88207093 Date 6-11-2020 Inspector G.T.

Sample/HA #	Type of Material	Homogeneous Area	Sample Location	Total Quantity (SF/LF)	Condition (ND, D, SD)	Lab Results
81.	N	N	N NEC of office			
82.	N	N	N NEC of CT office			
83.	1'x1' RT - white Blue pattern - Yellow Mastic	Utilized on select floor of Bldg 2 - CC-9 half of Room.	SEC of CC-9			
84.	N	N	N SEC of CC-9			
85.	N	N	N NWL of CC-9			
86.	AC Duct - Black Mastic	Utilized above ceiling of Bldg 2	NWC of hallway			
87.	N	N	N NEC of hallway			
88.	N	N	N SEC of CC-13			
89.	Ceramic tile - great Afton 5x4	Utilized on select floors of Men's two men's Restroom Bldg 2	NWC of Men's Restroom			
90.	N	N	N			





**APPENDIX D**  
**LICENSES AND CERTIFICATIONS**



Texas Department of State Health Services

TERRACON CONSULTANTS INC

*is certified to perform as an*


Asbestos Consultant Agency

*in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1954 and Title 12, Texas Administrative Code, Chapter 295 relating to Texas Asbestos Health Protection, as long as this license is not suspended or revoked.*

*License Number: 100157*

*Expiration Date: 11/30/2020*

*Control Number: 97144*

  
*John Hellerstedt, M.D.,  
Commissioner of Health*

*(Void After Expiration Date)*

VOID IF ALTERED NON-TRANSFERABLE

SEE BACK



**Texas Department of  
State Health Services**

**Asbestos Individual Consultant**

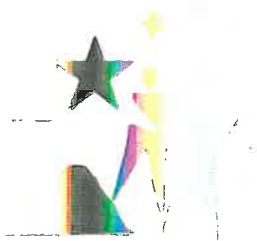
**TOMAS CRUZ**

**License No. 105857**

**Control No. 97610**

**Expiration Date: 23-Sep-2021**





# **Texas Department of State Health Services**

## **Asbestos Individual Consultant**

**RICHARD I HOWES**

**License No. 105406**

**Control No. 97743**

**Expiration Date: 21-Nov-2022**





**Texas Department of  
State Health Services**

Asbestos Inspector



**GUADALUPE TORRES**

License No. 603387

Control No. 99161

Expiration Date: 8-Jan-2021



**Texas Department of  
State Health Services**

Asbestos Project Manager



**GUADALUPE TORRES**

License No. 501467

Control No. 98105

Expiration Date: 29-Dec-2020



**Texas Department of  
State Health Services**

Asbestos Air Monitoring Technician



**GUADALUPE TORRES**

License No. 706593

Control No. 98265

Expiration Date: 29-Dec-2020



Texas Department of State Health Services

STEVE MOODY MICRO SERVICES LLC DBA  
MOODY LABS

*is certified to perform as an*

Asbestos Laboratory  
PCM, PLM, TEM

*in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas  
Occupations Code, Chapter 1954 and Title 12, Texas Administrative Code, Chapter 295 relating to Texas  
Asbestos Health Protection, as long as this license is not suspended or revoked.*



*License Number: 300084*

*Expiration Date: 05/31/2022*

*Control Number: 96450*

*John Hellerstedt, M.D.,  
Commissioner of Health*

*(Void After Expiration Date)*

VOID IF ALTERED NON-TRANSFERABLE

SEE BACK

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:2017

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NVLAP LAB CODE: 102056-0

**Steve Moody Micro Services, LLC**  
Farmers Branch, TX

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).*

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2019-07-01 through 2020-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "Peter S. Lamm".

For the National Voluntary Laboratory Accreditation Program





**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Steve Moody Micro Services, LLC**  
2051 Valley View Lane  
Farmers Branch, TX 75234-8956  
Mr. Bruce Crabb  
Phone: 972-241-8460 Fax: 972-241-8461  
Email: [bruce.crabb@moodylabs.com](mailto:bruce.crabb@moodylabs.com)  
<http://www.moodylabs.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 102056-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

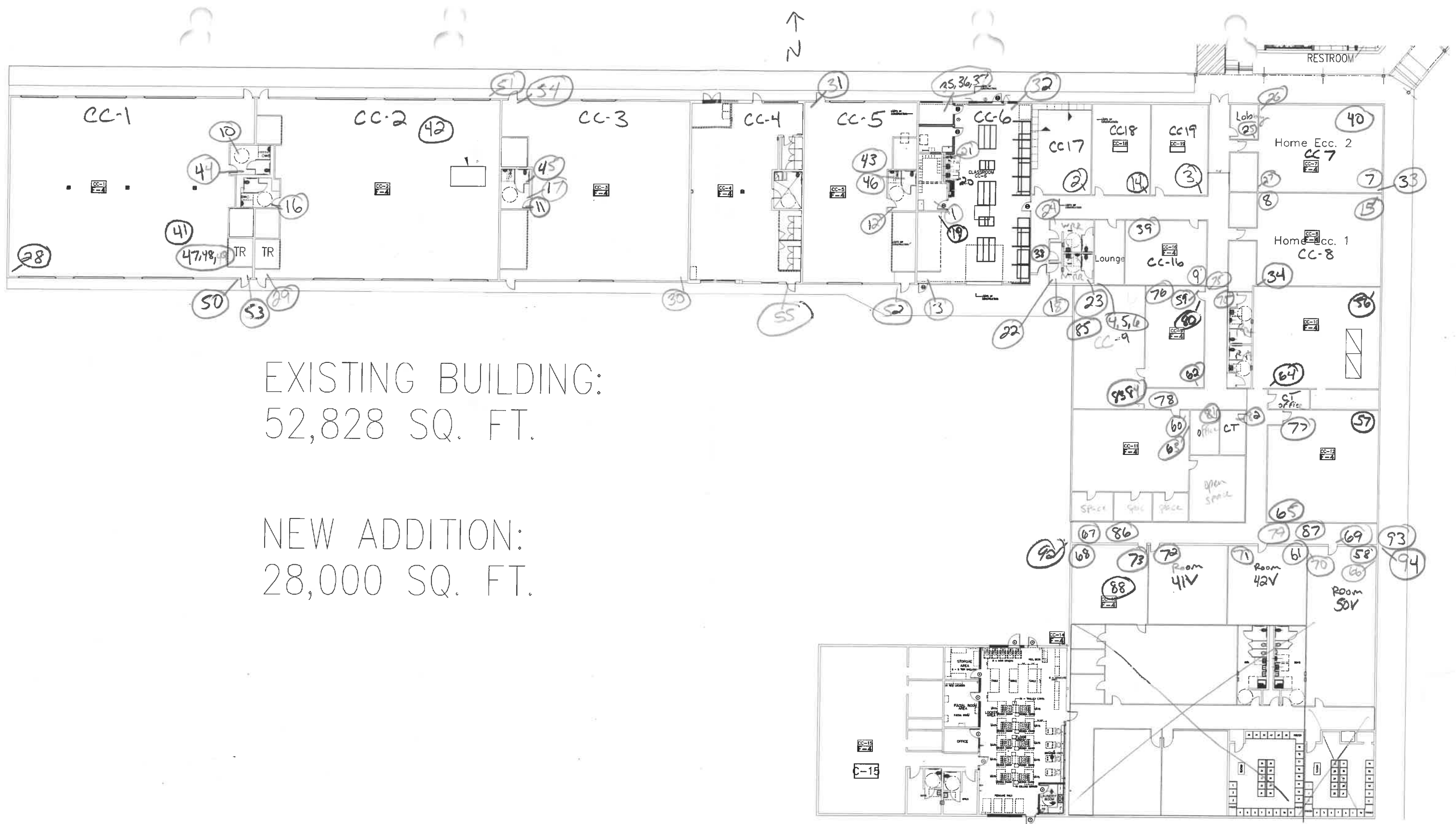
**Airborne Asbestos Analysis**

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

A handwritten signature in cursive script, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

**APPENDIX E**  
**SAMPLE LOCATION DRAWING**



EXISTING BUILDING:  
52,828 SQ. FT.

NEW ADDITION:  
28,000 SQ. FT.

CTE — BARRIENTES MIDDLE SCHOOL

↑  
not included  
in scope