



**Request for Qualifications, 19MCO543**  
**In response refer to RFQ No. 19MCO543 Addendum 1 (one) with Questions and Answers**  
**February 7, 2019**

Gentlemen/Ladies:

This document contains questions submitted by prospective bidders and responses to those questions.

1. Can you send any project scope information?  
Midland County is seeking qualifications from firms to design a renovation, transforming a former halfway house to a Mental Health Transitional Living Facility. A project scope will be created with the architect that is selected.
2. What all needs to be done for this renovation?  
Multiple Aspects: abatement, remodel. Renovation to comply with laws relating to transitional living facilities and hospital grade clinical facilities.
3. What is the square footage?  
13,285 square feet.
4. Will an addition be involved?  
Yes.
5. Can you provide clarification on response item 2.(f) Provisions for Renovation; exactly what information is being requested?  
We are requesting the firms approach to any provisions needed for renovation.
6. Is there a proposed schematic floor plan and proposed building program to reference?  
We do not have a proposed schematic floor plan available. A floor plan was hand drawn by a member of the project team, however the thought of that design has since changed. This RFQ is to contract with an architect to design the floor plan renovation. No proposed building program.
7. Is there a hazardous materials survey and partial asbestos abatement report to reference?  
Yes, see Attachment A, beginning on page 3 of this document.
8. Is there a structural survey for the building?  
No.
9. Is there a document indicating decisions for the proposed anti-ligature products to be incorporated?  
Yes, see Attachment B, beginning on page 123.
10. Who will be the owner for this building and project?  
Midland County.

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11. Who will the architect contract with?  
Midland County
12. Who is operating the facility once completed?  
That is to be determined.
13. Is there a GC selected for this project?  
No, a Request for Proposal will be sent out and a General Contractor will be selected from the responses.
14. Who will be licensing this facility?  
Texas Department of State Health Services.
15. What occupancy will this facility be?  
Max 25 residents.
16. What code will this project be constructed under?  
City Code meeting hospital standards.
17. What is the project budget? Construction budget?  
No Budget set.
18. What is the scope of work for the exterior of the building?  
We do not have a complete scope of work for the exterior as this will be created with the architect that is selected.
19. Are there any MWBE requirements for this project team?  
No.
20. Are there any environmental goals for the project to meet?  
No goals at this time.

# ASBESTOS ABATEMENT SPECIFICATION

**Two-Story Office Building  
509 North Loraine Street  
Midland, Texas**

May 7, 2018  
Terracon Project No. AR177172



Adam G. Finger  
TDSHS Individual Asbestos Consultant  
License No. 10-5772  
Expires: 2.18.20

**Prepared for:**  
Midland County  
Midland, Texas

**Prepared by:**  
Terracon Consultants, Inc.  
Lubbock, Texas

TDSHS Consultant Agency License No. 10-0157

terracon.com

**Terracon**

Environmental



Facilities



Geotechnical



Materials

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# ASBESTOS ABATEMENT SPECIFICATION

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Terracon Project No. AR177172

## 1.0 INTRODUCTION

The work will consist of the abatement of asbestos containing materials as identified in the Asbestos Survey Report prepared by Terracon Consultants Inc. (Terracon Project Number AR177124) dated July 29, 2017. This asbestos abatement design is dated May 7, 2018.

## 2.0 MATERIAL DESCRIPTION AND QUANTITIES

Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as including removal and disposal of asbestos-containing materials associated with:

### Two-Story Office Building

**Drywall/joint compound/tape/texture wall system – 2% Chrysotile Asbestos**

Quantities listed are estimates only. The **CONTRACTOR** is responsible for verifying quantity estimates prior to submission of bid. The **CONTRACTOR** will perform work for materials and locations indicated, regardless of actual quantities, and no increase in Contract amount will be allowed for quantity adjustment.

### Two-Story Office Building

Drywall/joint compound/tape/texture wall system 7,500 SF

## 3.0 WORK PRACTICES

### NOTES:

**CONTRACTOR** shall maintain personnel on the site at all times any portion of the work area(s) is open or not properly secured. **CONTRACTOR** will ensure that at least one (1) **CONTRACTOR** representative is on-site at the job-site at all times during work hours, including during lunch break. **CONTRACTOR** will ensure that work areas are secure at the end of each work day. **CONTRACTOR** may elect to have a company representative stay on-site to maintain security during times other than normal working hours.

If a regulatory inspection is conducted by the Texas Department of State Health Services

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(TDSHS) inspector, the **CONTRACTOR'S** abatement project supervisor must immediately cease all abatement activities and give his complete and undivided attention to the inspector. Should the TDSHS inspector don personal protective equipment (PPE) and enter the containment, the abatement project supervisor will also don PPE and enter the containment to accompany the inspector on his inspection. If any deficiency/deficiencies are noted by the TDSHS inspector, the abatement project supervisor will direct the workers to immediately correct the deficiency/deficiencies.

The abatement project supervisor will accompany the TDSHS inspector throughout the duration of the inspection process, whether inside or outside the containment. Upon the TDSHS inspector's departure from the site, the supervisor will resume abatement activities.

Drawings provided depict the general locations of the identified asbestos-containing materials (ACM's) to be abated in the building and as a general overview of the building. The drawings show the basic configuration of the identified ACM's and are provided for informational purposes. The **CONTRACTOR** will perform work for materials present, regardless of actual quantities or extent of material and no increase in Contract amount will be allowed for quantity adjustment.

### 3.1 Respiratory Protection

Throughout the project, respirators shall be provided by the **CONTRACTOR**. The **CONTRACTOR** will provide respirators which are applicable and suitable for the purpose intended in accordance with OSHA 1910.134 – Respirator Standard. The **CONTRACTOR** will ensure that the respirators are equipped with filter cartridges designed for asbestos-containing dusts and mists, vapors, and color-coded in accordance with ANSI Z228.2 (1980).

### 3.2 Protective Clothing

During removal of in full containments, at least one protective suit will be worn by each worker. Boots and gloves will be made available to each worker as needed. All protective suits will be properly disposed of at the conclusion of each work-shift. Prior to exiting the work area, the workers performing the abatement will decontaminate thoroughly in three-chambered wet decontamination system attached to each containment.



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### 3.3 Containment

The interior asbestos containing materials will be abated in a full containment consisting of one (1) layer of fire retardant 4-mil polyethylene sheeting on the ceiling, two (2) layers of fire retardant 4-mil polyethylene sheeting on the walls (where applicable) and two (2) layers of fire retardant 6-mil polyethylene sheeting on the floors, in conjunction critical barriers, negative pressure, and a three-chambered wet decontamination system.

**Decontamination System: disposable/pop-up units displaying excessive use or wear will not be permitted for the decontamination system.** Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, Changing Room, Shower Room, and Equipment Room. 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 sheet polyethylene flapped doorway.

Maintain floor of changing room dry and clean at all times. Do not allow overflow water from shower to wet floor in 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 posted information for all emergency phone numbers and procedures.

Shower Room: Provide a completely water tight operational shower to be used for transit by cleanly dressed workers entering the Work Area from the Changing Room, or for showering by workers exiting 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.

Separate this room from the rest of the building with airtight walls fabricated of 6 mil polyethylene sheeting.



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Separate this room from the Changing and Equipment Rooms with airtight walls fabricated of 6 mil polyethylene sheeting.

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 in sanitary condition. Arrange so that water from showering does not splash into the Changing or Equipment Rooms.

Provide flexible hose showerhead. Pump wastewater to drain or to storage for use in amended water. If pumped to drain, provide 20 micron and 5 micron waste water 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 flap doorway. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene sheeting. Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6 mil polyethylene sheeting.

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, as in dry removal, 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 sheeting per shift change and remove contaminated layer after each shift.

Waste Load-out Area: the **CONTRACTOR** will conduct the waste load out in areas separate from any non-project personnel or passers-by.

  
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### 3.4 Removal

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

**Drywall/joint compound/tape/texture wall and ceiling:** Spray asbestos containing material(s) with amended water or removal encapsulant. Allow time for amended water or removal encapsulant to saturate the material. Do not over saturate to cause excess dripping. If amended water is used, spray material repeatedly during the work process to maintain a continuously wet condition. Drywall nails or screws will be removed from wood studs in conjunction with the drywall. **Any blown-in insulation and/or batt insulation/Kraft paper materials present in the wall and ceiling cavity areas shall be removed and disposed of as ACM.** The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative.

### 3.5 Disposal

1. Once the regulated ACM is removed, 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. **The use of bladder bags, onion bags or any other disposal bags deemed unconventional by the consultant will not be permitted, unless authorized in writing by the CONSULTANT prior to contract award.**
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  
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 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



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the Uniform Hazardous Waste Manifest signed by the landfill. .

5. 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 Uniform Hazardous Waste Manifest.

### 3.6 Clearance

Final clearance sampling in full containments will be performed in accordance with the Texas Asbestos Health Protection Rules (TAHPR) 295.58(i)(3). Clearance samples will be collected using aggressive sampling techniques as described in TAHPR 295.58(i)(3)(A). Equipment used in aggressive sampling should be properly cleaned and decontaminated before use. Air filtration units shall remain on during the clearance air-monitoring period. Prior to air monitoring, floors, ceiling and walls shall be swept with the exhaust of a minimum one (1) horsepower leaf blower.

A minimum of three (3) samples will be collected inside each full containment; at the CONSULTANT'S direction, one additional sample will be collected for each 10,000 cubic feet of containment volume (or fraction thereof) in excess of 30,000 cubic feet. The PCM analysis will be performed in accordance with the most current NIOSH 7400 Method and A Counting Rule for the determination of final clearance. The release criteria for PCM analysis is complete if all PCM air samples are determined below 0.01 fibers per cubic centimeter. If the PCM results fail to meet the release criteria, then the decontamination is incomplete and re-cleaning per the specification is required.

## 4.0 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)

Negative Initial Exposure Assessment



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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

Worker Training Certificates

Respiratory Fit Test Certificate

Certificates of Worker Acknowledgement

Project Closeout (submitted to **CONSULTANT**)

**CONTRACTOR's** Daily Log

Waste Disposal Manifest Copies

Certificate of Completion (if required)

Releases, Occupancy Permits (if applicable)

Personal Air Monitoring Lab Results

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, 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.



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**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**.

If required, reproduce and distribute copies after **CONSULTANT'S** review.

### CONSULTANT'S RESPONSIBILITIES:

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 and completion of Scope of Work.

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

Review for conformance with design concept of project and information given in Contract Documents.

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.

## 5.0 CONSTRUCTION NOTES

The Consultant shall be responsible for the submission of the Demolition/Renovation Notification Form. Fees will be paid by the **OWNER**. The **OWNER** shall be responsible for payment of notification fees included in the Demolition/Renovation Notification Form. On Notification form, **OWNER** shall be listed as stated on front cover.

The **CONTRACTOR** will be responsible for routing water and electricity to the work areas. Water and electrical service are present on the site at this time.

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.



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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.

Exhaust negative pressure ventilation system to the outside of the building where feasible.

The **CONTRACTOR** shall be responsible for installing hard barriers in any window openings utilized for exhaust of negative pressure and shall ensure that the building can be secured between work periods. If necessary, a hard barrier decontamination unit shall be constructed at the site to ensure building security.

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 fire extinguisher in the work area for each 1,000 square feet of work area or fraction 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.

## 6.0 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.



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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)

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.

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## **7.0 AIR MONITORING SERVICES**

The responsibility for performing visual inspections and air monitoring services is delegated to Terracon's on-site State of Texas licensed project manager/air monitoring technician.

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 permissible exposure limits (PELs), and describes the action required by the **CONTRACTOR** if a permissible exposure limit is met or exceeded.

### AIR MONITORING:

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

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.

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.

### AIRBORNE FIBER COUNTS:

Inside Work Area: Maintain an average airborne count in the Work Area of less than 0.1 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 0.1 fibers per cubic centimeter, stop work and leave ventilation system in operation. Do not recommence work until authorized by the **CONSULTANT**.



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Outside Work Area: Maintain an average airborne count outside the Work Area of less than the Permissible Exposure Limit (PEL) of 0.1 f/cc of air.

If any air sample taken outside the Work Area exceeds the PEL, immediately stop work until the source of the elevated fiber readings can be determined by the **CONSULTANT**. Immediately take corrective as instructed by the **CONSULTANT**.

Decontaminate the affected area in accordance industry standard methods.

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 FOR CONTAINMENT(S):

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 Number of Samples	Minimum Sample Volume	Planned Analytical Method
Each Work Area	3	1,250 Liters	PCM

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**.

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Location Sampled	Minimum Number of Samples	Minimum Sample Volume	Planned Analytical Method
Each Interior Work Area	1	500 Liters	PCM
Outside Each Interior Work Area/Inside Building	1	500 Liters	PCM
Decon Unit Clean Room	1	500 Liters	PCM
Output of Negative Pressure Ventilation System	1	500 Liters	PCM

Clearance Sample Schedule: The **CONSULTANT** will secure the following air samples to determine air clearance at the conclusion of abatement. The number of samples may vary according to site plan and on authorization of **CONSULTANT**.

Location Sampled	Minimum Number of Samples	Minimum Sample Volume	Planned Analytical Method
Each Interior Work Area	3; See Section 3.6	1,250 Liters	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.

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.

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### First Key Inspection:

Inspection of Work Area 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** 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 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.

### Final Key Inspection:

Project Closeout Inspection: A final inspection will be conducted by the **CONSULTANT** after the **CONTRACTOR** has removed all barrier tape, drop-cloths, 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



Adam G. Finger  
License #10-5772  
Expires 2.18.20

**Asbestos Abatement Specification**

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
May 7, 2018 ■ Terracon Project No.: AR177172



accordance with the project documents. Inspections will require 24 hours advance notice to the **CONSULTANT**.

LABORATORY TESTING:

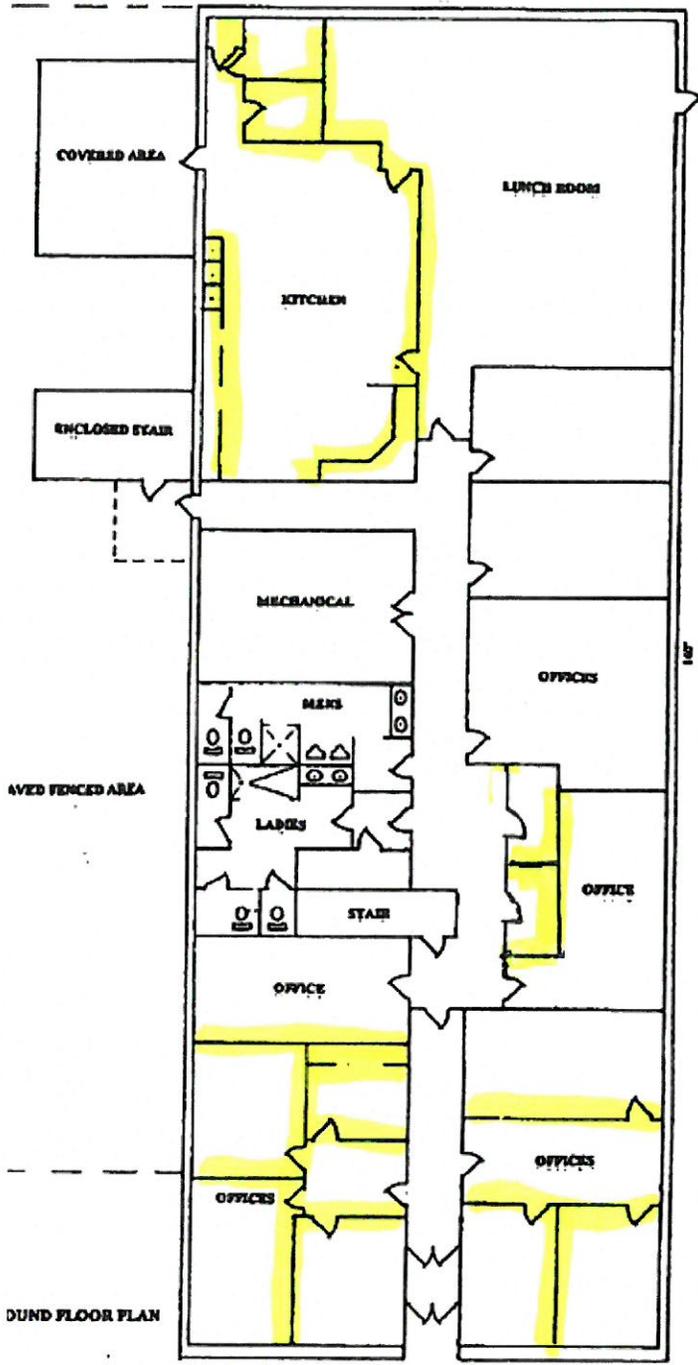
The **CONSULTANT** will perform field analysis of the air samples. A microscope and field laboratory will be set up at the jobsite, at the option of the **CONSULTANT**, so that verbal reports on air samples can be obtained promptly after collection.

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.

A handwritten signature in blue ink, appearing to read "A.G. Finger".

Adam G. Finger

**APPENDIX A  
SPECIFICATION DRAWING**



*Asst. J.*  
 Lic. No. 10-5772  
 Exp. 2/18/20

**LEGEND**

 ACM DRYWALL/JOINT COMPOUND/TAPE /TEXTURE WALL SYSTEM

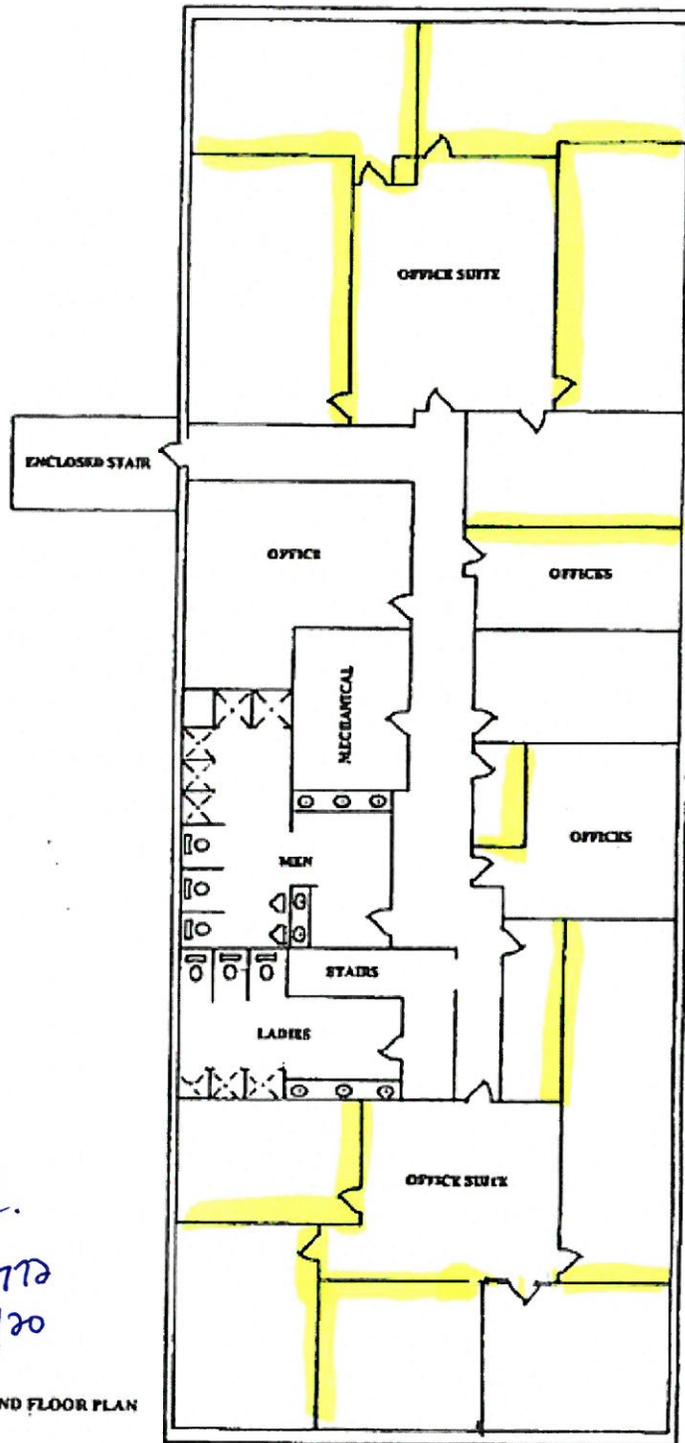
Project No.	AR177172
Scale:	NTS
Source:	Terracon
Date:	5-7-2018

**Terracon**  
 Consulting Engineers & Scientists

5827 50<sup>th</sup> Street, Suite 1, Lubbock, Texas 9424  
 PH. (806) 300-0140 FAX. (806) 797-0947

**ASBESTOS ABATEMENT**  
 TWO STORY OFFICE BUILDING  
 GROUND FLOOR  
 509 N. LORAIN STREET  
 MIDLAND, TEXAS

FIGURE	1
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*ajf*  
Lic. No. 10-5772  
Exp. 2/19/20

SECOND FLOOR PLAN

**LEGEND**

 ACM DRYWALL/JOINT COMPOUND/TAPE /TEXTURE WALL SYSTEM

Project No. AR177172	 5827 50 <sup>th</sup> Street, Suite 1, Lubbock, Texas 79424 PH. (806) 300-0140 FAX. (806) 797-0947	ASBESTOS ABATEMENT	FIGURE
Scale: NTS		TWO STORY OFFICE BUILDING	2
Source: Terracon		SECOND FLOOR	
Date: 5-7-2018		509 N. LORAIN STREET MIDLAND, TEXAS	

**APPENDIX B**  
**ASBESTOS SURVEY REPORT**

# Asbestos Survey

**Two-Story Office Building  
509 North Loraine Street  
Midland, Texas**

July 29, 2017  
Terracon Project No. AR177124



**Prepared for:**  
Midland County  
500 North Loraine Street  
Midland, Texas 79701

**Prepared by:**  
Terracon Consultants, Inc.  
5827 50<sup>th</sup> St, Suite 1  
Lubbock, Texas 7942

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

**Terracon**

Environmental



Facilities



Geotechnical



Materials

July 29, 2017



Midland County  
500 North Loraine Street  
Midland, TX 79701

Attn: Mr. Tim Harris  
P: (432) 688-4151  
E: [tim.harris@co.midland.tx.us](mailto:tim.harris@co.midland.tx.us)

Re: Abestos Survey  
Two-Story Office Building  
509 North Loraine Street  
Midland, Texas 79501  
Terracon Project No. AR177124

Dear Mr. Harris:

The purpose of this report is to present the results of an asbestos survey performed June 1-2, 2017 at the above referenced building in Midland, Texas. This survey was conducted in general accordance with Terracon Proposal PAR177124 dated May 24, 2017. We understand this survey was requested due to the proposed renovation of the above referenced building.

Terracon appreciates the opportunity to provide this service to Midland County. If you have any questions regarding this report, or if you need assistance with project oversight and sampling during renovation of this structure, please contact the undersigned at (806) 300-0140.

Sincerely,  
**Terracon Consultants, Inc.**

*Prepared By:*

A blue ink signature of Adam G. Finger, consisting of a large, stylized 'A' followed by 'G. Finger'.

Adam G. Finger  
Project Manager- Asbestos Services  
Asbestos Consultant  
TDSHS License No. 10-5772

*Reviewed By:*

A blue ink signature of Greg B. Calhoun, consisting of a stylized 'G' followed by 'B. Calhoun'.

for Greg B. Calhoun  
Asbestos Department Manager  
Asbestos Consultant  
TDSHS License No. 10-5510

Terracon Consultants, Inc. 5827 50<sup>th</sup> Street, Suite 1 Lubbock, Texas 79424  
P [806] 300 0140 F [806] 797 0947 [terracon.com](http://terracon.com)

Environmental

Facilities

Geotechnical

Materials

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# **ASBESTOS SURVEY REPORT**

**Two-Story Office Building**

**509 North Loraine Street**

**Midland, Texas**

**Terracon Project No. AR177124**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the two-story office building located at 509 North Loraine Street in Midland, Texas. The survey was conducted June 1-2, 2017 by a State of Texas licensed individual asbestos consultant and licensed asbestos inspector in general accordance with Terracon Proposal PAR177124 dated May 24, 2017. Interior and exterior building components 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 unsampled 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 an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

### **1.1 Project Objective**

The objective of the asbestos survey was to identify the presence and location of accessible friable and nonfriable ACM present on the interior and exterior of the two-story office building located at 509 North Loraine Street in Midland, Texas. Terracon understands that the structure is scheduled for renovation.

The Texas Asbestos Health Protection Rules (TAHPR) and EPA regulation 40 CFR 61, Subpart M, the National Emission Standards for Hazardous Air Pollutants (NESHAP) require that an asbestos survey be performed prior to renovation or demolition activities.

## **2.0 BUILDING DESCRIPTION**

The building is a two-story metal framed structure constructed on a concrete slab foundation that measures approximately 13,285 square feet. The exterior walls are finished with brick, concrete masonry units (CMU) and stucco. The roof is a flat, membrane roof over a built-up roof.

The interior of the building consists of a lobby, hallways, offices, a kitchen, a commons area, two stairwells, a library, three (3) mechanical rooms and four (4) restrooms. The

## **Asbestos Survey**

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



floors consist of tile on concrete, carpet over tile on concrete and unfinished concrete. The interior walls consist of plaster on block, drywall, textured drywall, wood paneling over drywall, and wallpaper on drywall. The ceiling consists of textured drywall and lay-in acoustical tiles suspended from acoustical ceiling tiles on drywall. No spray-applied fireproofing was observed in the plenum space above the ceilings or on the roof deck on the day of the survey.

### **3.0 FIELD ACTIVITIES**

The survey was conducted by Mr. Adam G. Finger, a Texas Department of State Health Services (TDSHS) licensed individual asbestos consultant (License No. 10-5772), and Dr. Les McDaniel, a TDSHS licensed asbestos inspector (License No. 60-3558). Copies of these licenses are attached in Appendix E. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the AHERA. A summary of survey activities is provided below.

#### **3.1 Visual Assessment**

Our survey activities began with visual observation of the interior and exterior of the 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. Interior assessment was conducted throughout visually accessible areas of the structure. The exterior survey included an assessment of the exterior walls and roof. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

#### **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.

## Asbestos Survey

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



One-hundred ninety-three (193) bulk samples were collected from fifty-seven (57) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included in Appendix B.

### 3.4 Sample Analysis

Suspect ACM samples were delivered under proper chain of custody to Moody Laboratories of Farmers Branch, Texas, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited (Lab No. 102056-0) and TDSHS licensed (License No. 30-0084) laboratory for analysis by PLM with dispersion staining techniques per EPA Method 40 600/R-93/116. The percentage of asbestos where applicable, was determined by microscopic visual estimation.

## 4.0 REGULATORY OVERVIEW

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 nonfriable or Category II nonfriable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand-pressure. Category I nonfriable ACM includes packing, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II nonfriable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and II nonfriable ACM in poor condition and has become friable or which will be subject to drilling, sanding, grinding, cutting, or abrading and which could

## Asbestos Survey

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
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be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). 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

Based on the results of the laboratory analyses, asbestos was confirmed in the following material:

- 12"x12" vinyl floor tile and black mastic (2 types)
- 12"x12" vinyl floor tile, carpet glue and black mastic
- Drywall/joint compound/tape/texture wall and ceiling system
- Friable wall plaster/wallpaper wall system
- Drywall/joint compound/tape/text/wallpaper wall system
- Drywall/joint compound/tape wall system
- Friable wall plaster/texture
- Drywall/joint compound/tape/texture wall system (2 types)
- Membrane roof core
- Exterior window caulk

The asbestos-containing wall plaster (two types) observed on the perimeter walls was assessed to be in good condition but friable on the day of the survey. The remaining ACMs were assessed to be nonfriable and in good condition. Terracon understands that the subject building is scheduled for renovation. Therefore, the identified ACMs must be abated prior to renovation operations that would disturb this material.

## Asbestos Survey

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
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Terracon inspected several areas under the carpeting and floor tile in the subject building and did not observe additional floor coverings/layers except where noted in this report. However, the potential exists for additional flooring to be present beneath the carpet and floor tile. If flooring is encountered beneath the carpet or floor tile that has not been tested the material should be assumed to be asbestos containing until the material is tested and confirmed non-ACM.

Terracon observed mirrors in the restrooms that appeared to be mechanically fastened to the textured drywall walls at the time of the survey. Terracon attempted to assess the area behind the installed mirrors for suspect ACM; however, suspect materials could not be verified without forcibly removing the installed mirrors, potentially causing excessive damage to the mirrors and creating a safety hazard. The potential exists for suspect ACM mastic to be present behind the mirrors. If encountered, the suspect mirror mastic should be sampled prior to disturbance.

Two (2) of five (5) samples collected from the friable wall plaster/wallpaper wall system observed on the perimeter walls of the 1<sup>st</sup> and 2<sup>nd</sup> floors were determined to contain 2% Chrysotile asbestos by PLM visual estimation. Based on the initial analysis, these samples (#41 and #42) were resubmitted for point count analysis by PLM and Sample #41 was confirmed to contain 1.75% Chrysotile asbestos. Therefore, based on the point count analysis this material meets the regulatory definition of asbestos containing materials by TAHPR. As field observations indicate this plaster/wallpaper wall system is homogeneous throughout building, Terracon must classify this material is asbestos containing where present.

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

The ACM exterior window caulk was observed to be nonfriable and present in a cumulative quantity below the NESHAP regulatory threshold of 160 square feet, 260 linear feet or 35 cubic feet and is, therefore, exempt from the requirement for abatement prior to renovation operations that would disturb this material. While this material is exempt from regulation under the NESHAP or TAHPR, renovation operations impacting this material are subject to OSHA regulations; therefore, Terracon recommends this material be removed prior to renovation operations impacting the window frames. If the ACM exterior window caulk is left in-place during renovations impacting the window frames, the contractor is not required to be a licensed asbestos abatement contractor; however, the contractor must conduct OSHA asbestos air monitoring and have a trained competent person on site to ensure the materials do not cause airborne fiber counts to exceed the OSHA permissible exposure level of 0.1 f/cc of air.

## Asbestos Survey

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
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Asbestos was identified in the roof tar captured in core samples collected from beneath the membrane roofing. Because the membrane roof prevented observation of the roof field beneath, Terracon must assume the ACM tar is present in all areas where the roof membrane is in place. Terracon estimates approximately 6,650 total square feet of built-up roofing material with nonfriable ACM roof tar are present beneath the membrane. It is EPA's interpretation that when a rotary blade (RB) roof cutter or equipment that similarly damages the roofing material is used to remove Category I nonfriable asbestos-containing roofing material, any project that impacts 5,580 square feet or greater of ACM is subject to the NESHAP and would require the material be removed and disposed of as ACM. Conversely, when an RB roof cutter or equipment that similarly damages the roofing material is used to remove Category I nonfriable asbestos-containing roofing material in a roof removal project that impacts less than 5,580 square feet of ACM, the project is not subject to the NESHAP, except that notification is always required for demolition projects. EPA further construes the NESHAP to mean that if slicing or other methods that do not sand, grind, cut or abrade Category I nonfriable ACM will be used, the NESHAP does not apply, regardless of the area of roof to be removed.

The asbestos containing roof materials may be removed by a general or roofing contractor provided the roof remains intact (as defined by OSHA 1926.1101) during removal and it retains its Category I nonfriable status. An assessment by a competent person as defined by OSHA should be made prior to performing the roof removal to insure the methods and procedures employed are in accordance with applicable EPA and OSHA regulations.

It is important to note that state and federal regulations require a ten (10) 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 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 located at 509 North Loraine Street in Midland, Texas. The information contained in 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 Midland County 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,

**Asbestos Survey**

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



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.

**APPENDIX A**  
**CONFIRMED ASBESTOS-CONTAINING MATERIALS**

**APPENDIX A  
CONFIRMED ASBESTOS-CONTAINING MATERIALS**

Two-Story Office Building  
509 North Loraine Street  
Midland, Texas

Terracon Project No. AR177124

Sample No.	Material	Location (Area)	Friable/ Nonfriable	Assessed Condition	Estimated Quantity
1, 2, 3	12"x12" Vinyl floor tile (gray, speckled) and mastic (black)	First floor rooms	Category I Nonfriable	Good	1,285 sq. ft.
4, 5, 6	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow/black)	First floor hallways	Category I Nonfriable	Good	1,230 sq. ft.
13, 14, 15	12"x12" Vinyl floor tile, carpet glue (yellow) and mastic (black)	First floor offices	Category I Nonfriable	Good	815 sq. ft.
31, 32, 33, 34, 35, 36, 37	Drywall/joint compound/tape/texture wall and ceiling system (multicolor, crows foot)	Interior walls and ceilings	Category II Nonfriable	Good	28,800 sq. ft.
38, 39, 40, 41, 42	Friable wall plaster/wallpaper wall system (multicolor, thatched/ribbed/smooth)	Perimeter walls - first and second floors	Category II Nonfriable	Good	Included in quantities for 54-60
43, 44, 45, 46, 47	Drywall/joint compound/tape/texture/wallpaper wall system (multicolor, thatched/ribbed/smooth)	Accent walls - First and second floor	RACM	Good	3,475 sq. ft.
48, 49, 50	Drywall/joint compound/tape wall system (brown/white, unfinished)	First floor mechanical room walls	Category II Nonfriable	Good	525 sq. ft.

**APPENDIX A  
 CONFIRMED ASBESTOS-CONTAINING MATERIALS**

Two-Story Office Building  
 509 North Loraine Street  
 Midland, Texas

Terracon Project No. AR177124

Sample No.	Material	Location (Area)	Friable/ Nonfriable	Assessed Condition	Estimated Quantity
54, 55, 56, 57, 58, 59, 60	Friable wall plaster/texture (multicolor, crows foot)	Perimeter demising walls	RACM	Good	6,150 sq. ft.
66, 67, 68	Drywall/joint compound/tape/texture wall system (teal, smooth)	Renovation walls in SE office-1st floor	Category II Nonfriable	Good	450 sq. ft.
69, 70, 71	Drywall/joint compound/tape/texture wall system (beige, rough)	Storage closet under stairwell	Category II Nonfriable	Good	275 sq. ft.
144, 145, 146	Membrane roof core (multicolor)	Roof of building	Category I Nonfriable	Good	6,650 sq. ft.
182, 183, 184	Exterior window caulk (gray)	Perimeter of exterior window frames	Category II Nonfriable	Good	36 sq. ft.

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**Two-Story Office Building**  
**509 North Loraine Street**  
**Midland, Texas**  
**Terracon Project No. AR177124**

<b>Material</b>	<b>Asbestos Containing</b>	<b>Sample Numbers</b>
12"x12" Vinyl floor tile (gray, speckled) and mastic (black)	Yes (black mastic)	1, 2, 3
12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow/black)	Yes (black mastic)	4, 5, 6
12"x12" Vinyl floor tile (gray, speckled) and mastic (yellow/black)	No	7, 8, 9
12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow)	No	10, 11, 12
12"x12" Vinyl floor tile, carpet glue (yellow) and mastic (black)	Yes (floor tile & mastic)	13, 14, 15
9"x9" Vinyl floor tile, carpet glue (yellow) and mastic (brown)	No	16, 17, 18
Carpet glue (yellow)	No	19, 20, 21
Floor coating with texture (gray/tan, sandy)	No	22, 23, 24
2"x2" Ceramic floor tile (gray) grout (gray) and thinset (gray)	No	25, 26, 27
18"x18" Ceramic floor tile (gray) grout (gray) and thinset (white)	No	28, 29, 30
Drywall/joint compound/tape/texture wall and ceiling system (multicolor, crows foot)	Yes (joint compound and texture)	31, 32, 33, 34, 35, 36, 37
Friable wall plaster/wallpaper wall system (multicolor, thatched/ribbed/smooth)	Yes (joint compound)	38, 39, 40, 41, 42
Drywall/joint compound/tape/texture/wallpaper wall system (multicolor, thatched/ribbed/smooth)	Yes (joint compound)	43, 44, 45, 46, 47

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**Two-Story Office Building**  
**509 North Loraine Street**  
**Midland, Texas**  
**Terracon Project No. AR177124**

Material	Asbestos Containing	Sample Numbers
Drywall/Joint compound/Tape wall system (brown/white, unfinished)	Yes (joint compound)	48, 49, 50
Friable wall plaster (white, smooth)	No	51, 52, 53
Friable wall plaster/texture (multicolor, crows foot)	Yes (texture)	54, 55, 56, 57, 58, 59, 60
Interior CMU block texture - building interior (teal, smooth)	No	61, 62, 63, 64, 65
Drywall/Joint compound/Tape/Texture wall system (teal, smooth)	Yes (joint compound and texture)	66, 67, 68
Drywall/Joint compound/Tape/Texture wall system (beige, rough)	Yes (joint compound and texture)	69, 70, 71
Interior CMU block texture – south stairwell buildout (white, smooth)	No	72, 73, 74
2'x4' Ceiling tile (white, solid)	No	75, 76, 77
2'x4' Ceiling tile (white, pin-fissure)	No	78, 79, 80
2'x4' Ceiling tile (white, fissure-pin)	No	81, 82, 83
Drywall ceiling (brown, unfinished)	No	84, 85, 86
1'x1' Ceiling tile (white, fissure) and button mastic (brown)	No	87, 88, 89
1'x1' Ceiling tile (white, holes) and button mastic (brown)	No	90, 91, 92
Drywall/Joint compound/Tape/Texture ceiling system (white, crows foot)	No	93, 94, 95

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**Two-Story Office Building**  
**509 North Loraine Street**  
**Midland, Texas**  
**Terracon Project No. AR177124**

Material	Asbestos Containing	Sample Numbers
Cove base mastic (black/brown/yellow)	No	96, 97, 98
Ceramic window sill grout (gray) and adhesive (gray)	No	99, 100, 101
Duct mastic (gray)	No	102, 103, 104
HVAC vibration joint cloth (black)	No	105, 106, 107
Leveling compound (white)	No	108, 109, 110
Interior door/interior window caulk (white)	No	111, 112, 113
Floor caulk (white)	No	114, 115, 116
Ceramic tile cove base (gray), grout (gray) and adhesive (gray)	No	117, 118, 119
Ceramic cove base (white), grout (white) and adhesive (gray)	No	120, 121, 122
Stair tread mastic (yellow/brown)	No	123, 124, 125
Fiber reinforced panel (FRP) mastic (tan)	No	126, 127, 128
Exterior window pane/sash glazing (gray)	No	129, 130, 131
Metal door insulation (white)	No	132, 133, 134
Duct mastic (black)	No	135, 136, 137

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**Two-Story Office Building**  
**509 North Loraine Street**  
**Midland, Texas**  
**Terracon Project No. AR177124**

<b>Material</b>	<b>Asbestos Containing</b>	<b>Sample Numbers</b>
Interior block sealant (black)	No	138, 139, 140
Fiberglass pipe insulation (white)	No	141, 142, 143
Membrane roof core (multicolor)	Yes (tar)	144, 145, 146
Roof caulk (white)	No	147, 148, 149
Exterior accent stucco (red)	No	150, 151, 152
Exterior aggregate stucco (tan)	No	153, 154, 155, 156, 157
Exterior wall caulk (white)	No	158, 159, 160
Roof seam caulk (white)	No	161, 162, 163
Exterior brick texture (beige)	No	164, 165, 166, 167, 168, 169, 170
Exterior CMU block texture (beige)	No	171, 172, 173, 174, 175
Exterior door caulk (white)	No	176, 177, 178
Exterior accent tile (brown) grout (gray) and adhesive (gray)	No	179, 180, 181
Exterior window caulk (gray)	Yes	182, 183, 184
Plaster debris (white)	No	185, 186, 187

**APPENDIX B**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**Two-Story Office Building**  
**509 North Loraine Street**  
**Midland, Texas**  
**Terracon Project No. AR177124**

<b>Material</b>	<b>Asbestos Containing</b>	<b>Sample Numbers</b>
Tar paper/HVAC vapor barrier (black)	No	188, 189, 190
Door and stair caulk (white)	No	191, 192, 193

**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 - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			Page 1 of 17

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
01-FT1-001	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Black), Ground Floor, Room 3, Northwest Corner	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic
01-FT1-002	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Black), Ground Floor, Room 7, Center	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic
01-FT1-003	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Black), Ground Floor, Room 9, Center	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic None Detected - Leveling Compound
02-FT2-004	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow / Black), Ground Floor, Main Hallway, Northwest Corner, Room 4 Threshold	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic None Detected - Leveling Compound
02-FT2-005	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow / Black), Ground Floor, Main Hallway, Outside Room 7	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic
02-FT2-006	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow / Black), Ground Floor, Main Hallway, Room 20 Threshold	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic
03-FT2-007	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Yellow / Black), Second Floor, Room 18, Northeast of Center	None Detected - Floor Tile None Detected - Yellow Mastic None Detected - Green Mastic None Detected - Leveling Compound
03-FT2-008	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Yellow / Black), Second Floor, Room 18, Center	None Detected - Floor Tile None Detected - Yellow Mastic None Detected - Green Mastic None Detected - Leveling Compound
03-FT2-009	12" x 12" Vinyl Floor Tile (Gray, Speckled) and Mastic (Yellow / Black), Second Floor, Room 18, Southwest of Center	None Detected - Floor Tile None Detected - Yellow Mastic None Detected - Green Mastic None Detected - Leveling Compound



## 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 - Lubbock	Lab Job No. : 17B-06602	002
Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
04-FT2-010	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow), Second Floor, Room 10, Behind Door	None Detected - Floor Tile None Detected - Yellow Mastic
04-FT2-011	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow), Second Floor, Main Hallway, Room 9 Threshold	None Detected - Floor Tile None Detected - Yellow Mastic
04-FT2-012	12" x 12" Vinyl Floor Tile (Tan, Mottled) and Mastic (Yellow), Second Floor, Main Hallway, Room 3 Threshold	None Detected - Floor Tile None Detected - Yellow Mastic
05-FT4-013	12" x 12" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Black), Ground Floor, Room 16, Southeast Corner	None Detected - Yellow Mastic 5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
05-FT4-014	12" x 12" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Black), Ground Floor, Room 5, Northeast Corner	None Detected - Yellow Mastic 5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
05-FT4-015	12" x 12" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Black), Ground Floor, Room 4, North of Center	None Detected - Yellow Mastic 5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
06-FT4-016	9" x 9" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Brown), Second Floor, Room 7, Northeast Corner	None Detected - Yellow Mastic None Detected - Floor Tile None Detected - Brown Mastic
06-FT4-017	9" x 9" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Brown), Second Floor, Room 6, Northeast Corner	None Detected - Yellow Mastic None Detected - Floor Tile None Detected - Brown Mastic
06-FT4-018	9" x 9" Vinyl Floor Tile, Carpet Glue (Yellow) and Mastic (Brown), Second Floor, Room 5, Northwest Corner	None Detected - Yellow Mastic None Detected - Floor Tile None Detected - Brown Mastic None Detected - Leveling Compound
07-MG7-019	Carpet Glue (Yellow), Ground Floor, Room 10, Northeast Corner	None Detected - Glue
07-MG7-020	Carpet Glue (Yellow), Second Floor, Room 12, Northwest Corner	None Detected - Glue



# 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 - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
07-MG7-021	Carpet Glue (Yellow), Second Floor, Room 3 Threshold with Room 2	None Detected - Glue
08-FC5-022	Floor Coating with Texture (Gray / Tan, Sandy), Ground Floor, Room 22, Northwest Corner	None Detected - Coating None Detected - Texture
08-FC5-023	Floor Coating with Texture (Gray / Tan, Sandy), Ground Floor, Room 22, East Wall, Center	None Detected - Coating None Detected - Texture
08-FC5-024	Floor Coating with Texture (Gray / Tan, Sandy), Ground Floor, Room 22, South Wall, Center	None Detected - Coating None Detected - Texture
09-MA3-025	2" x 2" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (Gray), Ground Floor, Men's Restroom, By Shower Drain	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
09-MA3-026	2" x 2" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (Gray), Ground Floor, Women's Restroom, Shower Room by Drain	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
09-MA3-027	2" x 2" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (Gray), Second Floor, Men's Restroom, Shower Room by Drain	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
10-MA3-028	18" x 18" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (White), Ground Floor, Main Hallway, Room 17 Threshold	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
10-MA3-029	18" x 18" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (White), Ground Floor, Main Hallway, Room 17 Threshold	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
10-MA3-030	18" x 18" Ceramic Floor Tile (Gray) Grout (Gray) and Thinset (White), Ground Floor, Main Hallway, Room 17 Threshold	None Detected - Ceramic Tile None Detected - Grout None Detected - Thinset
11-WB6-031	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Ground Floor, Room 5, Southwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Old Texture None Detected - New Texture



## 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 - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
11-WB6-032	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Ground Floor, Women's Restroom Foyer, Northwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Old Texture None Detected - New Texture
11-WB6-033	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Ground Floor, Room 12, Southwest Corner	None Detected - Drywall Material 2% Chrysotile - Old Texture / Jt Cmpd None Detected - New Texture / Jt Cmpd
11-WB6-034	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Ground Floor, Room 18, Northwest Corner	None Detected - Joint Compound None Detected - Texture
11-WB6-035	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Second Floor, Room 12, Northwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
11-WB6-036	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Second Floor, Room 8, Southeast Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
11-WB6-037	Drywall / Joint Compound / Tape / Texture Wall and Ceiling System (Multi-Color, Crow's Foot), Second Floor, Room 2, East Wall, Center	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
12-WB5-038	Friable Wall Plaster / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Ground Floor, Room 19, Southeast Corner	None Detected - Joint Compound None Detected - Wall Covering
12-WB5-039	Friable Wall Plaster / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Ground Floor, Room 16, Southeast Corner	None Detected - Joint Compound None Detected - Wall Covering
12-WB5-040	Friable Wall Plaster / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Ground Floor, Room 14, North Wall, Center	None Detected - Plaster None Detected - Wall Covering



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Client : Terracon - Lubbock	Lab Job No. : 17B-06602	002
Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
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 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
12-WB5-041	Friable Wall Plaster / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Second Floor, Room 14, North Wall, Center	2% Chrysotile - Joint Compound None Detected - Wall Covering ( By PLM ) 1.75% Chrysotile - Joint Compound ( By Point Count )
12-WB5-042	Friable Wall Plaster / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Second Floor, Room 20, South Wall, Center	2% Chrysotile - Joint Compound None Detected - Wall Covering
13-WB5-043	Drywall / Joint Compound / Tape / Texture / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Ground Floor, Room 19, Northwest Corner	2% Chrysotile - Old Joint Compound None Detected - New Joint Compound None Detected - Wall Coverings
13-WB5-044	Drywall / Joint Compound / Tape / Texture / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Ground Floor, Room 16, Northwest Corner	None Detected - Drywall Material None Detected - Joint Compound None Detected - Wall Covering
13-WB5-045	Drywall / Joint Compound / Tape / Texture / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Second Floor, Room 14, Southwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound None Detected - Wall Covering
13-WB5-046	Drywall / Joint Compound / Texture / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Second Floor, Room 17, North Wall, East of Center	None Detected - Drywall Material 2% Chrysotile - Joint Compound None Detected - Wall Coverings
13-WB5-047	Drywall / Joint Compound / Texture / Wallpaper Wall System (Multi-Color, Thatched / Ribbed / Smooth), Second Floor, Room 20, Northeast Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound None Detected - Wall Covering
14-WB1-048	Drywall / Joint Compound / Tape Wall System (Brown / White, Unfinished), Ground Floor, Room 21, East Wall, South of Center	None Detected - Drywall Material 2% Chrysotile - Joint Compound
14-WB1-049	Drywall / Joint Compound / Tape Wall System (Brown / White, Unfinished), Ground Floor, Room 21, North Wall, Behind Door	None Detected - Drywall Material 2% Chrysotile - Joint Compound
14-WB1-050	Drywall / Joint Compound / Tape Wall System (Brown / White, Unfinished), Ground Floor, Room 21, Northeast Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound



## 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 - Lubbock	Lab Job No. : 17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # :	AR177124	Sample Date : 06/01/2017 - 06/02/2017	
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 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
15-PL1-051	Friable Wall Plaster (White, Smooth), Ground Floor, Room 21, South Wall, East of Center	None Detected - Plaster
15-PL1-052	Friable Wall Plaster (White, Smooth), Ground Floor, Room 21, South Wall, Center	None Detected - Plaster
15-PL1-053	Friable Wall Plaster (White, Smooth), Ground Floor, Room 21, South Wall, West of Center	None Detected - Plaster
16-PL1-054	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Ground Floor, Room 4, North Wall, Center	None Detected - Texture
16-PL1-055	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Ground Floor, Room 12, North Wall, Center	2% Chrysotile - Texture
16-PL1-056	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Second Floor, Room 16, South Wall, Center	2% Chrysotile - Texture
16-PL1-057	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Second Floor, Room 11, North Wall, Center	2% Chrysotile - Texture
16-PL1-058	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Second Floor, Room 19, South Wall, Center	None Detected - Texture
16-PL1-059	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Second Floor, Room 2, West Wall, Center	2% Chrysotile - Texture
16-PL1-060	Friable Wall Plaster / Texture (Multi-Color, Crow's Foot), Second Floor, Room 1, West Wall, Center	None Detected - Plaster 2% Chrysotile - Texture
17-SC4-061	Interior CMU Block Texture, Building Interior (Teal, Smooth), Ground Floor, Men's Restroom, North Accent Wall	None Detected - CMU None Detected - Texture
17-SC4-062	Interior CMU Block Texture, Building Interior (Teal, Smooth), Ground Floor, Women's Restroom, South Accent Wall by Sinks	None Detected - CMU None Detected - Texture
17-SC4-063	Interior CMU Block Texture, Building Interior (Teal, Smooth), Second Floor, Men's Restroom, Accent Wall Dividing Showers	None Detected - CMU None Detected - Texture



## PLM Summary Report

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Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Terracon - Lubbock	Lab Job No. : 17B-06602	002
Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
17-SC4-064	Interior CMU Block Texture, Building Interior (Teal, Smooth), Second Floor, Women's Restroom, Accent Wall Dividing Showers	None Detected - CMU None Detected - Texture
17-SC4-065	Interior CMU Block Texture, Building Interior (Teal, Smooth), Second Floor, Room 18, South Wall, Center	None Detected - CMU None Detected - Texture
18-WB4-066	Drywall / Joint Compound / Tape / Texture Wall System (Teal, Smooth), Ground Floor, Room 20, Northwest Corner	None Detected - Drywall Material 2% Chrysotile - Old Joint Compound None Detected - New Joint Compound None Detected - Texture
18-WB4-067	Drywall / Joint Compound / Tape / Texture Wall System (Teal, Smooth), Ground Floor, Room 20, Northeast Corner	2% Chrysotile - Old Joint Compound None Detected - New Joint Compound None Detected - Texture
18-WB4-068	Drywall / Joint Compound / Tape / Texture Wall System (Teal, Smooth), Ground Floor, Room 20, West Wall, Center	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
19-WB4-069	Drywall / Joint Compound / Tape / Texture Wall System (Beige, Rough), Ground Floor, Storage Room under Stairs, Northwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
19-WB4-070	Drywall / Joint Compound / Tape / Texture Wall System (Beige, Rough), Ground Floor, Storage Room under Stairs, Northeast Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
19-WB4-071	Drywall / Joint Compound / Tape / Texture Wall System (Beige, Rough), Ground Floor, Storage Room under Stairs, Southwest Corner	None Detected - Drywall Material 2% Chrysotile - Joint Compound 2% Chrysotile - Texture
20-SC4-072	Interior CMU Block Texture, Buildout Interior (White, Smooth), Enclosed Stairs, Ground Floor, West Wall, South of Northwest Corner	None Detected - CMU None Detected - Texture
20-SC4-073	Interior CMU Block Texture, Buildout Interior (White, Smooth), Enclosed Stairs, Landing, South Wall, Center	None Detected - CMU None Detected - Texture



# PLM Summary Report

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TDSHS License No. 30-0084

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

Client :	Terracon - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
20-SC4-074	Interior CMU Block Texture, Buildout Interior (White, Smooth), Enclosed Stairs, Second Floor, West Wall, South of Northwest Corner	None Detected - CMU None Detected - Texture
21-CT4-075	2' x 4' Ceiling Tile (White, Solid), Ground Floor, Room 3, Southwest of Center	None Detected - Drywall Tile None Detected - Vinyl Facing
21-CT4-076	2' x 4' Ceiling Tile (White, Solid), Ground Floor, Room 22, West of Center	None Detected - Drywall Tile None Detected - Vinyl Facing
21-CT4-077	2' x 4' Ceiling Tile (White, Solid), Ground Floor, Room 3, North of Center	None Detected - Drywall Tile None Detected - Vinyl Facing
22-CT4-078	2' x 4' Ceiling Tile (White, Pin-Fissure), Ground Floor, Room 19, West of Center	None Detected - Acoustic Tile
22-CT4-079	2' x 4' Ceiling Tile (White, Pin-Fissure), Ground Floor, Room 5, Center	None Detected - Acoustic Tile
22-CT4-080	2' x 4' Ceiling Tile (White, Pin-Fissure), Second Floor, Room 13, Center	None Detected - Acoustic Tile
23-CT4-081	2' x 4' Ceiling Tile (White, Fissure-Pin), Ground Floor, Room 19, Southeast Corner	None Detected - Acoustic Tile
23-CT4-082	2' x 4' Ceiling Tile (White, Fissure-Pin), Ground Floor, Room 5, West of Center	None Detected - Acoustic Tile
23-CT4-083	2' x 4' Ceiling Tile (White, Fissure-Pin), Second Floor, Room 11, West of Center	None Detected - Acoustic Tile
24-WB2-084	Drywall Ceiling (Brown, Unfinished), Ground Floor, Room 21, North of Southwest Corner	None Detected - Drywall Material
24-WB2-085	Drywall Ceiling (Brown, Unfinished), Ground Floor, Room 21, North of Southeast Corner	None Detected - Drywall Material
24-WB2-086	Drywall Ceiling (Brown, Unfinished), Ground Floor, Room 21, South of Northeast Corner	None Detected - Drywall Material
25-CT1-087	1' x 1' Ceiling Tile (White, Fissure) and Button Mastic (Brown), Ground Floor, Room 20, West of Center	None Detected - Acoustic Tile None Detected - Brown 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 - Lubbock	Lab Job No. : 17B-06602	002
Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
25-CT1-088	1' x 1' Ceiling Tile (White, Fissure) and Button Mastic (Brown), Ground Floor, Room 11, South Wall, Center	None Detected - Acoustic Tile None Detected - Brown Mastic
25-CT1-089	1' x 1' Ceiling Tile (White, Fissure) and Button Mastic (Brown), Second Floor, Room 12, East Wall, Center	None Detected - Acoustic Tile None Detected - Brown Mastic
26-CT1-090	1' x 1' Ceiling Tile (White, Holes) and Button Mastic (Brown), Ground Floor, Room 5, Center	None Detected - Acoustic Tile None Detected - Brown Mastic
26-CT1-091	1' x 1' Ceiling Tile (White, Holes) and Button Mastic (Brown), Ground Floor, Room 3, Southwest of Center	None Detected - Acoustic Tile None Detected - Brown Mastic
26-CT1-092	1' x 1' Ceiling Tile (White, Holes) and Button Mastic (Brown), Second Floor, Room 13, Center	None Detected - Acoustic Tile None Detected - Brown Mastic
27-WB5-093	Drywall / Joint Compound / Tape / Texture Ceiling System (White, Crow's Foot), Enclosed Stairs, Northeast Corner	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
27-WB5-094	Drywall / Joint Compound / Tape / Texture Ceiling System (White, Crow's Foot), Enclosed Stairs, Northwest Corner	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
27-WB5-095	Drywall / Joint Compound / Tape / Texture Ceiling System (White, Crow's Foot), Enclosed Stairs, East of Center	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
28-FC3-096	Cove Base Mastic (Black / Brown / Yellow), Ground Floor, Room 6, East Wall, Center	None Detected - Cove Base None Detected - Yellow Mastic
28-FC3-097	Cove Base Mastic (Black / Brown / Yellow), Ground Floor, Room 19, Northwest Corner	None Detected - Cove Base None Detected - Yellow Mastic None Detected - Brown Mastic
28-FC3-098	Cove Base Mastic (Black / Brown / Yellow), Second Floor, Room 6, Northeast Corner	None Detected - Cove Base None Detected - Yellow Mastic None Detected - Brown Mastic
29-MA3-099	Ceramic Window Sill Grout (Gray) and Adhesive (Gray), Ground Floor, Room 3, South Window	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar



## 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 - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			Page 10 of 17

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
29-MA3-100	Ceramic Window Sill Grout (Gray) and Adhesive (Gray), Ground Floor, Room 3, South Window	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
29-MA3-101	Ceramic Window Sill Grout (Gray) and Adhesive (Gray), Second Floor, Room 14, North Wall, Center	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
30-MI5-102	Duct Mastic (Gray), Ground Floor, Room 21, HVAC, South	None Detected - Gray Mastic
30-MI5-103	Duct Mastic (Gray), Ground Floor, Room 21, HVAC, Center	None Detected - Gray Mastic
30-MI5-104	Duct Mastic (Gray), Ground Floor, Room 21, HVAC, North	None Detected - Gray Mastic
31-WP1-105	HVAC Vibration Joint Cloth (Black), Ground Floor, Room 21, HVAC Duct, East	None Detected - Isolator Material
31-WP1-106	HVAC Vibration Joint Cloth (Black), Ground Floor, Room 21, HVAC Duct, Center	None Detected - Isolator Material
31-WP1-107	HVAC Vibration Joint Cloth (Black), Ground Floor, Room 21, HVAC Duct, South	None Detected - Isolator Material
32-FC6-108	Leveling Compound (White), Ground Floor, Room 4 Threshold	None Detected - Yellow Mastic None Detected - Leveling Compound
32-FC6-109	Leveling Compound (White), Ground Floor, Room 11 Threshold	None Detected - Yellow Mastic None Detected - Leveling Compound
32-FC6-110	Leveling Compound (White), Second Floor, Room 10, Behind Door	None Detected - Yellow Mastic None Detected - Leveling Compound
33-CA2-111	Interior Door / Interior Window Caulk (White), Ground Floor, Room 22, North Wall, West Side of Door	None Detected - Caulking
33-CA2-112	Interior Door / Interior Window Caulk (White), Second Floor, Stairs, West Side of Door	None Detected - Caulking



## PLM Summary Report

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Project :	ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # :	AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)		
	EPA Method 600 / R-93 / 116		Page 11 of 17

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
33-CA2-113	Interior Door / Interior Window Caulk (White), Second Floor, Room 4, West Side of Door	None Detected - Caulking
34-CA5-114	Floor Caulk (White), Second Floor, Women's Restroom, Accent Wall Dividing Wall Dividing Showers, North	None Detected - Caulking
34-CA5-115	Floor Caulk (White), Second Floor, Women's Restroom, Accent Wall Dividing Wall Dividing Showers, Center	None Detected - Caulking
34-CA5-116	Floor Caulk (White), Second Floor, Women's Restroom, Accent Wall Dividing Wall Dividing Showers, South	None Detected - Caulking
35-MA3-117	Ceramic Tile Cove Base (Gray), Grout (Gray) and Adhesive (Gray), Ground Floor, Main Hallway, Security Door, South	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
35-MA3-118	Ceramic Tile Cove Base (Gray), Grout (Gray) and Adhesive (Gray), Ground Floor, Main Hallway, Security Door, North	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
35-MA3-119	Ceramic Tile Cove Base (Gray), Grout (Gray) and Adhesive (Gray), Ground Floor, Main Hallway, Security Door, North	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
36-MA3-120	Ceramic Cove Base (White), Grout (White) and Adhesive (Gray), Second Floor, Men's Restroom, West Wall below Sinks	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
36-MA3-121	Ceramic Cove Base (White), Grout (White) and Adhesive (Gray), Second Floor, Men's Restroom, West Wall below Sinks	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
36-MA3-122	Ceramic Cove Base (White), Grout (White) and Adhesive (Gray), Second Floor, Men's Restroom, West Wall below Sinks	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
37-FC5-123	Stair Tread Mastic (Yellow / Brown), Stairs, Below Landing	None Detected - Yellow Mastic
37-FC5-124	Stair Tread Mastic (Yellow / Brown), Stairs, Below Landing	None Detected - Yellow Mastic None Detected - Brown 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 - Lubbock	Lab Job No. :	17B-06602	002
Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
37-FC5-125	Stair Tread Mastic (Yellow / Brown), Stairs, Above Landing	None Detected - Yellow Mastic
38-MG9-126	Fiber Reinforced Panel (FRP) Mastic (Tan), Ground Floor, Room 9, South Wall, West of Door	None Detected - Mastic
38-MG9-127	Fiber Reinforced Panel (FRP) Mastic (Tan), Ground Floor, Room 9, South Wall, West of Door	None Detected - Mastic
38-MG9-128	Fiber Reinforced Panel (FRP) Mastic (Tan), Ground Floor, Room 9, South Wall, West of Door	None Detected - Mastic
39-SC1-129	Exterior Window Pane / Sash Glazing (Gray), Ground Floor, Room 3, West Wall, North Window	None Detected - Window Glazing
39-SC1-130	Exterior Window Pane / Sash Glazing (Gray), Ground Floor, Room 14, North Wall Window	None Detected - Window Glazing
39-SC1-131	Exterior Window Pane / Sash Glazing (Gray), Ground Floor, Room 16, South Wall, East Window	None Detected - Window Glazing
40-FD1-132	Metal Door Insulation (White), Ground Floor, Room 3, North Wall Door	None Detected - Foam Insulation
40-FD1-133	Metal Door Insulation (White), Ground Floor, Room 3, East Door	None Detected - Foam Insulation
40-FD1-134	Metal Door Insulation (White), Second Floor Stairs Door	None Detected - Foam Insulation
41-MI5-135	Duct Mastic (Black), Ground Floor, Room 21, West Wall HVAC, North	None Detected - Black Mastic
41-MI5-136	Duct Mastic (Black), Ground Floor, Room 21, West Wall HVAC, South	None Detected - Black Mastic
41-MI5-137	Duct Mastic (Black), Ground Floor, Room 21, West Wall HVAC, Center	None Detected - Thermal Insulation None Detected - Black Mastic
42-MI5-138	Interior Block Sealant (Black), Ground Floor, Room 21, South Wall, West of Center	None Detected - Sealant



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Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
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On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
42-MI5-139	Interior Block Sealant (Black), Ground Floor, Room 21, South Wall, Center	None Detected - Sealant
42-MI5-140	Interior Block Sealant (Black), Ground Floor, Room 21, South Wall, East of Center	None Detected - Sealant
43-MJ4-141	Fiberglass Pipe Insulation (White), Ground Floor, Room 21, Along East Wall, South of Center	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap
43-MJ4-142	Fiberglass Pipe Insulation (White), Ground Floor, Room 21, Along East Wall, Center	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap
43-MJ4-143	Fiberglass Pipe Insulation (White), Ground Floor, Room 21, Northeast Corner	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap
44-RF6-144	Membrane Roof Core (Multicolor), West Edge, Center	None Detected - Roofing Material 5% Chrysotile - Top Tar None Detected - Top Felts None Detected - Bottom Tars None Detected - Bottom Felt None Detected - Roof Decking
44-RF6-145	Membrane Roof Core (Multicolor), West of Center	None Detected - Roofing Material 2% Chrysotile - Top Tar None Detected - Top Felts None Detected - Bottom Tars None Detected - Bottom Felt None Detected - Underlayment None Detected - Roof Decking
44-RF6-146	Membrane Roof Core (Multicolor), East Edge, Center	None Detected - Roofing Material 5% Chrysotile - Top Tar None Detected - Top Felts None Detected - Bottom Tars None Detected - Bottom Felt None Detected - Roof Decking
45-CA5-147	Roof Caulk (White), West Quarter, Center	None Detected - Caulking
45-CA5-148	Roof Caulk (White), Southwest of Center	None Detected - Caulking



## PLM Summary Report

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Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
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On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
45-CA5-149	Roof Caulk (White), West of Southeast Corner	None Detected - Caulking
47-CA1-150	Exterior Accent Stucco (Red), East Wall, Main Entrance, North	None Detected - Plaster None Detected - Stucco
47-CA1-151	Exterior Accent Stucco (Red), East Wall, Main Entrance, South	None Detected - Plaster None Detected - Stucco
47-CA1-152	Exterior Accent Stucco (Red), Southeast Corner	None Detected - Plaster None Detected - Stucco
48-MA6-153	Exterior Aggregate Stucco (Tan), East Wall, Main Entrance, North	None Detected - Plaster None Detected - Stucco
48-MA6-154	Exterior Aggregate Stucco (Tan), East Wall, Main Entrance, South	None Detected - Plaster None Detected - Stucco
48-MA6-155	Exterior Aggregate Stucco (Tan), East Wall, South of Main Entrance, Center	None Detected - Plaster None Detected - Stucco
48-MA6-156	Exterior Aggregate Stucco (Tan), East Wall, South of Main Entrance, South Window	None Detected - Plaster None Detected - Stucco
48-MA6-157	Exterior Aggregate Stucco (Tan), Southeast Corner	None Detected - Plaster None Detected - Stucco
49-CA3-158	Exterior Wall Caulk (White), Enclosed Stairs, Northwest Corner	None Detected - Caulking
49-CA3-159	Exterior Wall Caulk (White), Enclosed Stairs, Northwest Corner	None Detected - Caulking
49-CA3-160	Exterior Wall Caulk (White), Enclosed Stairs, Northeast Corner	None Detected - Caulking
50-CA5-161	Roof Seam Caulk (White), Covered Area, South Edge, East	None Detected - Caulking
50-CA5-162	Roof Seam Caulk (White), Covered Area, South Edge, Center	None Detected - Caulking



# PLM Summary Report

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Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
50-CA5-163	Roof Seam Caulk (White), Covered Area, South Edge, West	None Detected - Caulking
51-SC5-164	Exterior Brick Texture (Beige), Northwest Corner	None Detected - Brick None Detected - Mortar None Detected - Paint
51-SC5-165	Exterior Brick Texture (Beige), North Wall, East of Door	None Detected - Brick No Mortar None Detected - Paint / Texture
51-SC5-166	Exterior Brick Texture (Beige), North Wall, Center	None Detected - Brick None Detected - Mortar None Detected - Paint
51-SC5-167	Exterior Brick Texture (Beige), Northeast Corner	None Detected - Brick None Detected - Mortar None Detected - Paint
51-SC5-168	Exterior Brick Texture (Beige), Southeast Corner	None Detected - Brick None Detected - Mortar None Detected - Paint
51-SC5-169	Exterior Brick Texture (Beige), South Wall, Next to Second Window from East	None Detected - Brick No Mortar None Detected - Paint
51-SC5-170	Exterior Brick Texture (Beige), Southwest Corner	None Detected - Brick No Mortar None Detected - Paint
52-SC4-171	Exterior CMU Block Texture (Beige), Enclosed Stairs, Northeast Corner	None Detected - CMU None Detected - Paint / Texture
52-SC4-172	Exterior CMU Block Texture (Beige), Enclosed Stairs, Southeast Corner	None Detected - CMU None Detected - Paint / Texture
52-SC4-173	Exterior CMU Block Texture (Beige), Enclosed Stairs, Southwest Corner	None Detected - CMU None Detected - Paint / Texture



## PLM Summary Report

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Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Terracon - Lubbock	Lab Job No. : 17B-06602	002
Project : ACM Inspection: 2-Story Office Building	Report Date : 07/17/2017	
Project # : AR177124	Sample Date : 06/01/2017 - 06/02/2017	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		Page 16 of 17

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
52-SC4-174	Exterior CMU Block Texture (Beige), Enclosed Stairs, West Wall, Center	None Detected - CMU None Detected - Mortar None Detected - Paint / Texture
52-SC4-175	Exterior CMU Block Texture (Beige), Enclosed Stairs, Northwest Corner	None Detected - CMU None Detected - Mortar None Detected - Paint / Texture
53-CA2-176	Exterior Door Caulk (White), North Wall, West Side of Door	None Detected - Caulking
53-CA2-177	Exterior Door Caulk (White), South Wall, East Side of Door	None Detected - Caulking
53-CA2-178	Exterior Door Caulk (White), Enclosed Stairs, East Wall, South Side of Door	None Detected - Caulking
54-MA3-179	Exterior Accent Tile (Brown) Grout (Gray) and Adhesive (Gray), Northeast Corner	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
54-MA3-180	Exterior Accent Tile (Brown) Grout (Gray) and Adhesive (Gray), East Wall, North of Main Entrance	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
54-MA3-181	Exterior Accent Tile (Brown) Grout (Gray) and Adhesive (Gray), Southeast Corner	None Detected - Ceramic Tile None Detected - Grout None Detected - Adhesive Material
55-CA1-182	Exterior Window Caulk (Gray), South Wall, East Window	2% Chrysotile - Grey Caulking None Detected - Clear Caulking
55-CA1-183	Exterior Window Caulk (Gray), North Wall, East Window	2% Chrysotile - Grey Caulking None Detected - Clear Caulking
55-CA1-184	Exterior Window Caulk (Gray), North Wall, West Window	2% Chrysotile - Grey Caulking None Detected - Clear Caulking
56-MS1-185	Plaster Debris (White), Ground Floor, Room 21, Along South Wall, West	None Detected - Plaster



# PLM Summary Report

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Project :	ACM Inspection: 2-Story Office Building	Report Date :	07/17/2017	
Project # :	AR177124	Sample Date :	06/01/2017 - 06/02/2017	
Identification :	Asbestos, Bulk Sample Analysis			
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116			

On 6/7/2017, one hundred ninety three (193) bulk material samples were submitted by Adam G. Finger of Terracon - Lubbock 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
56-MS1-186	Plaster Debris (White), Ground Floor, Room 21, Along South Wall, Center	None Detected - Plaster
56-MS1-187	Plaster Debris (White), Ground Floor, Room 21, Along South Wall, East	None Detected - Plaster
57-SC5-188	Tar Paper / HVAC Vapor Barrier (Black), Ground Floor, Men's Restroom, Center	None Detected - Vapor Barrier
57-SC5-189	Tar Paper / HVAC Vapor Barrier (Black), Ground Floor, Men's Restroom, Center	None Detected - Vapor Barrier
57-SC5-190	Tar Paper / HVAC Vapor Barrier (Black), Ground Floor, Men's Restroom, Center	None Detected - Vapor Barrier
58-CA5-191	Door and Stair Caulk (White), Enclosed Stairs, East Wall, South Side of Door	None Detected - Caulking
58-CA5-192	Door and Stair Caulk (White), Enclosed Stairs, East Wall, Below Stairs Frame	None Detected - Caulking
58-CA5-193	Door and Stair Caulk (White), Enclosed Stairs, East Wall, Below Stairs Frame	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): Ashley Chambers, Brian R. Schmidt, Brittany Gillen, Debra O'Sullivan

Lab Manager : Heather Lopez

Approved Signatory :

Lab Director : Bruce Crabb

Approved Signatory :

Thank you for choosing Moody Labs

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 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 - Lubbock  
 Project : ACM Inspection: 2-Story Office Building  
 Project # : AR177124

Lab Job No. : 17B-06602  
 Report Date : 07/17/2017

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01-FT1-001	Floor Tile (White)	97%	Calcite / Vinyl Binders	100%	06/09	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
01-FT1-002	Floor Tile (White)	97%	Calcite / Vinyl Binders	100%	06/09	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
01-FT1-003	Floor Tile (White)	92%	Calcite / Vinyl Binders	100%	06/09	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
	Leveling Compound (Off-White)	5%	Calcite / Binders	100%		
02-FT2-004	Floor Tile (White)	92%	Calcite / Vinyl Binders	100%	06/09	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
	Leveling Compound (Off-White)	5%	Calcite / Binders	100%		
02-FT2-005	Floor Tile (White)	97%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
02-FT2-006	Floor Tile (White)	97%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
03-FT2-007	Floor Tile (White)	70%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	10%	Glue Binders	100%		
	Green Mastic (Green)	10%	Glue Binders	100%		
	Leveling Compound (Off-White)	10%	Calcite / Binders	100%		

Moody Labs  
 2051 Valley View Lane  
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**PLM Detail Report**  
 Supplement to PLM Summary Report

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

Client : Terracon - Lubbock  
 Project : ACM Inspection: 2-Story Office Building  
 Project # : AR177124

Lab Job No. : 17B-06602  
 Report Date : 07/17/2017

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
03-FT2-008	Floor Tile (White)	70%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	10%	Glue Binders	100%		
	Green Mastic (Green)	10%	Glue Binders	100%		
	Leveling Compound (Off-White)	10%	Calcite / Binders	100%		
03-FT2-009	Floor Tile (White)	70%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	10%	Glue Binders	100%		
	Green Mastic (Green)	10%	Glue Binders	100%		
	Leveling Compound (Off-White)	10%	Calcite / Binders	100%		
04-FT2-010	Floor Tile (Light Tan)	95%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
04-FT2-011	Floor Tile (Light Tan)	95%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
04-FT2-012	Floor Tile (Light Tan)	95%	Calcite / Vinyl Binders	100%	06/12	SW
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
05-FT4-013	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Tan)	90%	Chrysotile	5%		
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	5%	Chrysotile	5%		
05-FT4-014	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Tan)	90%	Chrysotile	5%		
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	5%	Chrysotile	5%		
05-FT4-015	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Tan)	90%	Chrysotile	5%		
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	5%	Chrysotile	5%		
			Tar Binders	95%		

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Client : Terracon - Lubbock  
 Project : ACM Inspection: 2-Story Office Building  
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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
06-FT4-016	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Brown)	94%	Calcite / Vinyl Binders	100%		
	Brown Mastic (Brown)	1%	Glue Binders	100%		
06-FT4-017	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Brown)	94%	Calcite / Vinyl Binders	100%		
	Brown Mastic (Brown)	1%	Glue Binders	100%		
06-FT4-018	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	SW
	Floor Tile (Brown)	79%	Calcite / Vinyl Binders	100%		
	Brown Mastic (Brown)	1%	Glue Binders	100%		
	Leveling Compound (Gray)	15%	Calcite / Binders	100%		
07-MG7-019	Glue (Yellow)	100%	Glue Binders	100%	06/12	SW
07-MG7-020	Glue (Yellow)	100%	Glue Binders	100%	06/12	SW
07-MG7-021	Glue (Yellow)	100%	Glue Binders	100%	06/12	SW
08-FC5-022	Coating (Blue)	99%	Pigment / Binders	100%	06/12	SW
	Texture (White)	1%	Calcite / Talc / Binders	100%		
08-FC5-023	Coating (Blue)	99%	Pigment / Binders	100%	06/12	SW
	Texture (White)	1%	Calcite / Talc / Binders	100%		
08-FC5-024	Coating (Blue)	99%	Pigment / Binders	100%	06/12	SW
	Texture (White)	1%	Calcite / Talc / Binders	100%		
09-MA3-025	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
09-MA3-026	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
	Thinset (Grey)	20%	Aggregate	65%		
			Cement Binders	35%		

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09-MA3-027	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
	Thinset (Grey)	20%	Aggregate	65%		
			Cement Binders	35%		
10-MA3-028	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
	Thinset (White)	20%	Aggregate	65%		
			Cement Binders	35%		
10-MA3-029	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
	Thinset (White)	20%	Aggregate	65%		
			Cement Binders	35%		
10-MA3-030	Ceramic Tile (Tan)	60%	Sintered Clays	100%	06/12	SW
	Grout (Tan)	20%	Aggregate	65%		
			Cement Binders	35%		
	Thinset (White)	20%	Aggregate	65%		
			Cement Binders	35%		
11-WB6-031	Drywall Material (White)	54%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
			Chrysotile	2%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	98%		
			Chrysotile	2%		
Old Texture (White)	10%	Calcite / Talc / Binders	98%			
		Chrysotile	2%			
New Texture (White)	1%	Calcite / Talc / Binders	100%			

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11-WB6-032	Drywall Material (White)	54%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
Old Texture (White)	10%	Chrysotile	2%			
		Calcite / Talc / Binders	98%			
New Texture (White)	1%	Calcite / Talc / Binders	100%			
11-WB6-033	Drywall Material (White)	79%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Old Texture / Jt Cmpd (White)	1%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
New Texture / Jt Cmpd (White)	10%	Calcite / Talc / Binders	100%			
11-WB6-034	DW Tape (White)	20%	Cellulose Fibers	100%	06/12	SW
	Joint Compound (White)	40%	Calcite / Talc / Binders	100%		
	Texture (White)	40%	Calcite / Talc / Binders	100%		
11-WB6-035	Drywall Material (White)	55%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
Texture (White)	10%	Chrysotile	2%			
			Calcite / Talc / Binders	98%		

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11-WB6-036	Drywall Material (White)	55%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
Texture (White)	10%	Chrysotile	2%			
		Calcite / Talc / Binders	98%			
11-WB6-037	Drywall Material (White)	55%	Glass Wool Fibers	2%	06/12	SW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Gypsum / Binders	100%		
			Texture (White)	10%		
12-WB5-038	Joint Compound (White)	10%	Calcite / Talc / Binders	100%	06/12	SW
			Wall Covering (Blue)	90%		
	Cotton Fibers	15%				
	Vinyl Binders	70%				
12-WB5-039	Joint Compound (White)	10%	Calcite / Talc / Binders	100%	06/11	BG
			Wall Covering (Blue)	90%		
	Cotton Fibers	15%				
	Vinyl Binders	70%				
12-WB5-040	Plaster (Grey)	5%	Aggregate	65%	06/11	BG
			Gypsum / Binders	35%		
	Wall Covering (Blue)	95%	Synthetic Fibers	15%		
			Cotton Fibers	15%		
			Vinyl Binders	70%		

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12-WB5-041	Joint Compound (White)	3%	Chrysotile (1.75% Chrysotile)	2%	06/11 07/17	BG HL
	Wall Covering (Blue)	97%	Calcite / Talc / Binders Synthetic Fibers Cotton Fibers Vinyl Binders	98% 15% 15% 70%		
12-WB5-042	Joint Compound (White)	15%	Chrysotile	2%	06/11	BG
	Wall Covering (Blue)	85%	Calcite / Talc / Binders Synthetic Fibers Cotton Fibers Vinyl Binders	98% 15% 15% 70%		
13-WB5-043	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%	06/11	BG
	Old Joint Compound (Off-White)	10%	Chrysotile	2%		
	New Joint Compound (White)	20%	Calcite / Talc / Binders	98%		
	Wall Coverings (Cream/Brown)	55%	Calcite / Talc / Binders Synthetic Fibers Cotton Fibers Vinyl Binders	100% 15% 15% 70%		
13-WB5-044	Drywall Material (Light Pink)	50%	Glass Wool Fibers	2%	06/11	BG
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (White)	20%	Calcite / Talc / Binders	100%		
	Wall Covering (Blue)	15%	Synthetic Fibers Cotton Fibers Vinyl Binders	15% 15% 70%		

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13-WB5-045	Drywall Material (Light Pink)	45%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Wall Covering (Blue)	20%	Synthetic Fibers	15%		
Cotton Fibers	15%					
Vinyl Binders	70%					
13-WB5-046	Drywall Material (Light Pink)	45%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (Light Tan)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Wall Coverings (Blue/Tan)	20%	Synthetic Fibers	15%		
Cotton Fibers	15%					
Vinyl Binders	70%					
13-WB5-047	Drywall Material (Light Pink)	45%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Wall Covering (Blue/Tan)	20%	Synthetic Fibers	15%		
Cotton Fibers	15%					
Vinyl Binders	70%					
14-WB1-048	Drywall Material (Light Pink)	60%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (Light Tan)	25%	Chrysotile	2%		
Calcite / Talc / Binders			98%			

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14-WB1-049	Drywall Material (Light Pink)	65%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (Light Tan)	20%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
14-WB1-050	Drywall Material (Light Pink)	60%	Cellulose Fibers	5%	06/11	BG
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (Light Tan)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
15-PL1-051	Plaster (Tan)	100%	Aggregate	65%	06/11	BG
			Calcite / Binders	35%		
15-PL1-052	Plaster (Tan)	100%	Aggregate	65%	06/11	BG
			Calcite / Binders	35%		
15-PL1-053	Plaster (Tan)	100%	Aggregate	65%	06/11	BG
			Calcite / Binders	35%		
16-PL1-054	Texture (White)	100%	Calcite / Talc Fibers / Binders	100%	06/12	DO
16-PL1-055	Texture (White)	100%	Chrysotile	2%	06/12	DO
			Calcite / Talc / Binders	98%		
16-PL1-056	Texture (White)	100%	Chrysotile	2%	06/12	DO
			Calcite / Talc / Binders	98%		
16-PL1-057	Texture (White)	100%	Chrysotile	2%	06/12	DO
			Calcite / Talc / Binders	98%		
16-PL1-058	Texture (White)	100%	Calcite / Talc / Binders	100%	06/12	DO
16-PL1-059	Texture (White)	100%	Chrysotile	2%	06/12	DO
			Calcite / Talc / Binders	98%		

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16-PL1-060	Plaster (Off-White)	25%	Aggregate	65%	06/12	DO
			Calcite / Binders	35%		
	Texture (White)	75%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
17-SC4-061	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
17-SC4-062	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
17-SC4-063	CMU (Grey)	5%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	95%	Calcite / Talc / Binders	100%		
17-SC4-064	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
17-SC4-065	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
18-WB4-066	Drywall Material (White)	25%	Cellulose Fibers	5%	06/12	DO
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	20%	Cellulose Fibers	100%		
	Old Joint Compound (Off-White)	5%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	New Joint Compound (White)	25%	Calcite / Talc / Binders	100%		
	Texture (White)	25%	Calcite / Talc / Binders	100%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
18-WB4-067	DW Tape (White)	20%	Cellulose Fibers	100%	06/12	DO
	Old Joint Compound (Off-White)	1%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	New Joint Compound (White)	39%	Calcite / Talc / Binders	100%		
	Texture (White)	40%	Calcite / Talc / Binders	100%		
18-WB4-068	Drywall Material (White)	25%	Cellulose Fibers	5%	06/12	DO
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Texture (Off-White)	25%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
19-WB4-069	Drywall Material (White)	40%	Cellulose Fibers	5%	06/12	DO
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	20%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	20%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Texture (White)	20%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
19-WB4-070	Drywall Material (White)	60%	Cellulose Fibers	5%	06/12	DO
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	20%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Texture (Off-White)	5%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
19-WB4-071	Drywall Material (White)	60%	Cellulose Fibers	5%	06/12	DO
			Gypsum / Binders	95%		
	DW Paper / Tape (Tan / White)	15%	Cellulose Fibers	100%		
	Joint Compound (Off-White)	20%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	Texture (Off-White)	5%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
20-SC4-072	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
20-SC4-073	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
20-SC4-074	CMU (Grey)	98%	Aggregate	65%	06/12	DO
			Cement Binders	35%		
	Texture (White)	2%	Calcite / Talc / Binders	100%		
21-CT4-075	Drywall Tile (Pink)	94%	Glass Wool Fibers	3%	06/12	AC
			Cellulose Fibers	<1%		
			Mica	1%		
			Gypsum / Binders	96%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
Vinyl Facing (White)	1%	Vinyl Binders	100%			
21-CT4-076	Drywall Tile (Pink)	94%	Glass Wool Fibers	3%	06/12	AC
			Cellulose Fibers	<1%		
			Mica	1%		
			Gypsum / Binders	96%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
Vinyl Facing (White)	1%	Vinyl Binders	100%			

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21-CT4-077	Drywall Tile (Pink)	94%	Glass Wool Fibers	3%	06/12	AC
			Cellulose Fibers	<1%		
			Mica	1%		
	DW Paper Facing (Tan)	5%	Gypsum / Binders	96%		
			Cellulose Fibers	100%		
	Vinyl Facing (White)	1%	Vinyl Binders	100%		
22-CT4-078	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
22-CT4-079	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
22-CT4-080	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
23-CT4-081	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
23-CT4-082	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
23-CT4-083	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	06/12	AC
			Mineral Wool Fibers	30%		
			Perlite	20%		
24-WB2-084	Drywall Material (Pink)	95%	Cellulose Fibers	5%	06/12	AC
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
24-WB2-085	Drywall Material (Pink)	95%	Cellulose Fibers	5%	06/12	AC
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		

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24-WB2-086	Drywall Material (Pink)	100%	Cellulose Fibers	5%	06/12	AC
			Gypsum / Binders	95%		
25-CT1-087	Acoustic Tile (Off-White)	85%	Mineral Wool Fibers	95%	06/12	AC
	Brown Mastic (Brown)	15%	Binders / Fillers	5%		
			Glue Binders	100%		
25-CT1-088	Acoustic Tile (Off-White)	95%	Mineral Wool Fibers	95%	06/12	AC
	Brown Mastic (Brown)	5%	Binders / Fillers	5%		
			Glue Binders	100%		
25-CT1-089	Acoustic Tile (Off-White)	85%	Mineral Wool Fibers	95%	06/12	AC
	Brown Mastic (Brown)	15%	Binders / Fillers	5%		
			Glue Binders	100%		
26-CT1-090	Acoustic Tile (Tan)	95%	Wood Fibers	100%	06/12	AC
	Brown Mastic (Brown)	5%	Glue Binders	100%		
26-CT1-091	Acoustic Tile (Tan)	95%	Wood Fibers	100%	06/12	AC
	Brown Mastic (Brown)	5%	Glue Binders	100%		
26-CT1-092	Acoustic Tile (Tan)	95%	Wood Fibers	100%	06/12	AC
	Brown Mastic (Brown)	5%	Glue Binders	100%		
27-WB5-093	Drywall Material (Pink)	30%	Glass Wool Fibers	2%	06/12	AC
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		
27-WB5-094	Drywall Material (Pink)	30%	Glass Wool Fibers	2%	06/12	AC
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		

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27-WB5-095	Drywall Material (Pink)	30%	Glass Wool Fibers	2%	06/12	AC
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	30%	Calcite / Talc / Binders	100%		
28-FC3-096	Cove Base (Black)	95%	Calcite / Vinyl Binders	100%	06/12	AC
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
28-FC3-097	Cove Base (White)	95%	Calcite / Vinyl Binders	100%	06/12	AC
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
	Brown Mastic (Brown)	2%	Glue Binders	100%		
28-FC3-098	Cove Base (White)	95%	Calcite / Vinyl Binders	100%	06/12	AC
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
	Brown Mastic (Brown)	2%	Glue Binders	100%		
29-MA3-099	Ceramic Tile (Gray)	75%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	10%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Gray)	15%	Aggregate	65%		
			Cement Binders	35%		
29-MA3-100	Ceramic Tile (Gray)	75%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	10%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Gray)	15%	Aggregate	65%		
			Cement Binders	35%		
29-MA3-101	Ceramic Tile (Gray)	75%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	10%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Gray)	15%	Aggregate	65%		
			Cement Binders	35%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
30-MI5-102	Gray Mastic (Gray)	100%	Cellulose Fibers	2%	06/12	AC
			Calcite	60%		
			Glue Binders	38%		
30-MI5-103	Gray Mastic (Gray)	100%	Cellulose Fibers	2%	06/12	AC
			Calcite	60%		
			Glue Binders	38%		
30-MI5-104	Gray Mastic (Gray)	100%	Cellulose Fibers	2%	06/12	AC
			Calcite	60%		
			Glue Binders	38%		
31-WP1-105	Isolator Material (Black)	100%	Synthetic Fibers	25%	06/12	AC
			Rubber	75%		
31-WP1-106	Isolator Material (Black)	100%	Synthetic Fibers	25%	06/12	AC
			Rubber	75%		
31-WP1-107	Isolator Material (Black)	100%	Synthetic Fibers	25%	06/12	AC
			Rubber	75%		
32-FC6-108	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	AC
	Leveling Compound (Off-White)	95%	Calcite / Binders	100%		
32-FC6-109	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	AC
	Leveling Compound (Off-White)	95%	Calcite / Binders	100%		
32-FC6-110	Yellow Mastic (Yellow)	5%	Glue Binders	100%	06/12	AC
	Leveling Compound (Off-White)	95%	Calcite / Binders	100%		
33-CA2-111	Caulking (White)	100%	Calcite	50%	06/12	AC
			Binders / Fillers	50%		
33-CA2-112	Caulking (White)	100%	Calcite	50%	06/12	AC
			Binders / Fillers	50%		
33-CA2-113	Caulking (White)	100%	Calcite	50%	06/12	AC
			Binders / Fillers	50%		
34-CA5-114	Caulking (White)	100%	Binders / Fillers	100%	06/12	AC
34-CA5-115	Caulking (White)	100%	Binders / Fillers	100%	06/12	AC

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
34-CA5-116	Caulking (White)	100%	Binders / Fillers	100%	06/12	AC
35-MA3-117	Ceramic Tile (Off-White)	85%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	5%	Aggregate	65%		
			Cement Binders	35%		
35-MA3-118	Ceramic Tile (Off-White)	85%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	5%	Aggregate	65%		
			Cement Binders	35%		
35-MA3-119	Ceramic Tile (Off-White)	85%	Sintered Clays	100%	06/12	AC
	Grout (Gray)	5%	Aggregate	65%		
			Cement Binders	35%		
36-MA3-120	Ceramic Tile (White)	90%	Sintered Clays	100%	06/12	AC
	Grout (Off-White)	5%	Aggregate	65%		
			Cement Binders	35%		
36-MA3-121	Ceramic Tile (White)	90%	Sintered Clays	100%	06/12	AC
	Grout (Off-White)	5%	Aggregate	65%		
			Cement Binders	35%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
36-MA3-122	Ceramic Tile (White)	90%	Sintered Clays	100%	06/12	AC
	Grout (Off-White)	5%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (White)	5%	Aggregate	65%		
			Cement Binders	35%		
37-FC5-123	Yellow Mastic (Yellow)	100%	Glue Binders	100%	06/12	AC
37-FC5-124	Yellow Mastic (Yellow)	50%	Glue Binders	100%	06/12	AC
	Brown Mastic (Brown)	50%	Glue Binders	100%		
37-FC5-125	Yellow Mastic (Yellow)	100%	Glue Binders	100%	06/12	AC
38-MG9-126	Mastic (Cream)	100%	Calcite	50%	06/12	AC
			Glue Binders	50%		
38-MG9-127	Mastic (Cream)	100%	Calcite	50%	06/12	AC
			Glue Binders	50%		
38-MG9-128	Mastic (Cream)	100%	Calcite	50%	06/12	AC
			Glue Binders	50%		
39-SC1-129	Window Glazing (Grey)	100%	Calcite	60%	06/12	BS
			Binders / Fillers	40%		
39-SC1-130	Window Glazing (Grey)	100%	Calcite	60%	06/12	BS
			Binders / Fillers	40%		
39-SC1-131	Window Glazing (Grey)	100%	Calcite	60%	06/12	BS
			Binders / Fillers	40%		
40-FD1-132	Foam Insulation (White)	100%	Synthetic Foam	100%	06/12	BS
40-FD1-133	Foam Insulation (White)	100%	Synthetic Foam	100%	06/12	BS
40-FD1-134	Foam Insulation (White)	100%	Synthetic Foam	100%	06/12	BS
41-MI5-135	Black Mastic (Black)	100%	Binders / Fillers	100%	06/12	BS
41-MI5-136	Black Mastic (Black)	100%	Binders / Fillers	100%	06/12	BS

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
41-MI5-137	Thermal Insulation (Yellow)	50%	Mineral Wool Fibers	95%	06/12	BS
			Resin Binders	5%		
	Black Mastic (Black)	50%	Binders / Fillers	100%		
42-MI5-138	Sealant (Black)	5%	Tar Binders	100%	06/12	BS
			Aggregate	65%		
	Plaster (Tan)	95%	Calcite / Binders	35%		
42-MI5-139	Sealant (Black)	15%	Tar Binders	100%	06/12	BS
			Aggregate	65%		
	Plaster (Tan)	85%	Calcite / Binders	35%		
42-MI5-140	Sealant (Black)	5%	Tar Binders	100%	06/12	BS
			Aggregate	65%		
	Plaster (Tan)	95%	Calcite / Binders	35%		
43-MJ4-141	Thermal Insulation (Yellow)	98%	Mineral Wool Fibers	95%	06/12	BS
			Resin Binders	5%		
	Paper / Foil Wrap (White / Silver)	2%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
43-MJ4-142	Thermal Insulation (Yellow)	90%	Mineral Wool Fibers	95%	06/12	BS
			Resin Binders	5%		
	Paper / Foil Wrap (White / Silver)	10%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
43-MJ4-143	Thermal Insulation (Yellow)	95%	Mineral Wool Fibers	95%	06/12	BS
			Resin Binders	5%		
	Paper / Foil Wrap (White / Silver)	5%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
44-RF6-144	Sand (Off-White)	3%	Sand	100%	06/12	BS
	Roofing Material (Black)	5%	Glass Wool Fibers	25%		
			Cellulose Fibers	10%		
			Aggregate	15%		
			Calcite / Tar Binders	50%		
	Top Tar (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
	Top Felts (Black)	15%	Glass Wool Fibers	45%		
			Tar Binders	55%		
			Tar Binders	100%		
44-RF6-145	Sand (Off-White)	3%	Sand	100%	06/12	BS
	Roofing Material (Black)	5%	Glass Wool Fibers	25%		
			Cellulose Fibers	10%		
			Aggregate	15%		
			Calcite / Tar Binders	50%		
	Top Tar (Black)	5%	Chrysotile	2%		
			Tar Binders	98%		
	Top Felts (Black)	30%	Glass Wool Fibers	45%		
			Tar Binders	55%		
			Tar Binders	100%		
		Cellulose Fibers	85%			
		Tar Binders	15%			
		Cellulose Fibers	100%			
		Glass Wool Fibers	2%			
		Gypsum / Binders	98%			

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
44-RF6-146	Sand (Off-White)	2%	Sand	100%	06/12	BS
	Roofing Material (Black)	5%	Glass Wool Fibers	25%		
			Cellulose Fibers	10%		
			Aggregate	15%		
			Calcite / Tar Binders	50%		
	Top Tar (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
	Top Felts (Black)	25%	Glass Wool Fibers	45%		
			Tar Binders	55%		
			Tar Binders	100%		
	Bottom Tars (Black)	15%	Tar Binders	100%		
	Bottom Felt (Black)	5%	Cellulose Fibers	85%		
			Tar Binders	15%		
	Roof Decking (Off-White)	45%	Glass Wool Fibers	2%		
			Gypsum / Binders	98%		
45-CA5-147	Caulking (White)	100%	Silicone Binders	100%	06/12	BS
45-CA5-148	Caulking (White)	100%	Silicone Binders	100%	06/12	BS
45-CA5-149	Caulking (White)	100%	Silicone Binders	100%	06/12	BS
47-CA1-150	Plaster (Grey)	95%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	5%	Aggregate	65%		
			Binders / Fillers	35%		
47-CA1-151	Plaster (Grey)	35%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	65%	Aggregate	65%		
			Binders / Fillers	35%		
47-CA1-152	Plaster (Grey)	40%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	60%	Aggregate	65%		
			Binders / Fillers	35%		

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48-MA6-153	Plaster (Grey)	30%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	70%	Aggregate	65%		
			Binders / Fillers	35%		
48-MA6-154	Plaster (Grey)	10%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	90%	Aggregate	65%		
			Binders / Fillers	35%		
48-MA6-155	Plaster (Grey)	2%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	98%	Aggregate	65%		
			Binders / Fillers	35%		
48-MA6-156	Plaster (Grey)	5%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	95%	Aggregate	65%		
			Binders / Fillers	35%		
48-MA6-157	Plaster (Grey)	2%	Aggregate	65%	06/12	BS
			Calcite / Binders	35%		
	Stucco (Tan)	98%	Aggregate	65%		
			Binders / Fillers	35%		
49-CA3-158	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		
49-CA3-159	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		
49-CA3-160	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		
50-CA5-161	Caulking (Light Grey)	100%	Calcite / Binders	100%	06/12	BS
50-CA5-162	Caulking (Light Grey)	100%	Calcite / Binders	100%	06/12	BS
50-CA5-163	Caulking (Light Grey)	100%	Calcite / Binders	100%	06/12	BS

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
51-SC5-164	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	Mortar (Beige)	<1%	Aggregate	65%		
	Paint (Beige)	1%	Cement Binders Pigment / Binders	35% 100%		
51-SC5-165	Brick (Red)	99%	Sintered Clays	100%	06/12	BS
	No Mortar					
	Paint / Texture (Beige / White)	1%	Calcite Pigment / Binders	25% 75%		
51-SC5-166	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	Mortar (Beige)	<1%	Aggregate	65%		
	Paint (Beige)	1%	Cement Binders Pigment / Binders	35% 100%		
51-SC5-167	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	Mortar (Beige)	<1%	Aggregate	65%		
	Paint (Beige)	1%	Cement Binders Pigment / Binders	35% 100%		
51-SC5-168	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	Mortar (Beige)	<1%	Aggregate	65%		
	Paint (Beige)	1%	Cement Binders Pigment / Binders	35% 100%		
51-SC5-169	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	No Mortar					
	Paint (Beige)	1%	Pigment / Binders	100%		
51-SC5-170	Brick (Cream)	99%	Sintered Clays	100%	06/12	BS
	No Mortar					
	Paint (Beige)	1%	Pigment / Binders	100%		
52-SC4-171	CMU (Grey)	98%	Aggregate	65%	06/12	BS
			Cement Binders	35%		
	Paint / Texture (White)	2%	Calcite	25%		
			Pigment / Binders	75%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
52-SC4-172	CMU (Grey)	95%	Aggregate	65%	06/12	BS
			Cement Binders	35%		
52-SC4-173	Paint / Texture (White)	5%	Calcite	25%	06/12	BS
			Pigment / Binders	75%		
			Aggregate	65%		
			Cement Binders	35%		
52-SC4-174	Mortar (Grey)	55%	Aggregate	65%	06/12	BS
			Cement Binders	35%		
			Aggregate	65%		
			Cement Binders	35%		
52-SC4-175	Paint / Texture (White)	<1%	Calcite	25%	06/12	BS
			Pigment / Binders	75%		
			Aggregate	65%		
			Cement Binders	35%		
53-CA2-176	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		
53-CA2-177	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		
53-CA2-178	Caulking (White)	100%	Calcite	50%	06/12	BS
			Binders / Fillers	50%		

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 - Lubbock  
 Project : ACM Inspection: 2-Story Office Building  
 Project # : AR177124

Lab Job No. : 17B-06602  
 Report Date : 07/17/2017

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
54-MA3-179	Ceramic Tile (Brown)	50%	Sintered Clays	100%	06/12	BG
	Grout (Brown/Grey)	40%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	10%	Aggregate	65%		
			Cement Binders	35%		
54-MA3-180	Ceramic Tile (Brown)	60%	Sintered Clays	100%	06/12	BG
	Grout (Brown/Grey)	25%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	15%	Aggregate	65%		
			Cement Binders	35%		
54-MA3-181	Ceramic Tile (Brown)	55%	Sintered Clays	100%	06/12	BG
	Grout (Brown/Grey)	30%	Aggregate	65%		
			Cement Binders	35%		
	Adhesive Material (Clear)	15%	Glue Binders	100%		
55-CA1-182	Grey Caulking (Grey)	90%	Chrysotile	2%	06/12	BG
			Calcite / Talc / Binders	98%		
	Clear Caulking (Clear)	10%	Binders / Fillers	100%		
55-CA1-183	Grey Caulking (Grey)	10%	Chrysotile	2%	06/12	BG
			Calcite / Talc / Binders	98%		
	Clear Caulking (Clear)	90%	Binders / Fillers	100%		
55-CA1-184	Grey Caulking (Grey)	95%	Chrysotile	2%	06/12	BG
			Calcite / Talc / Binders	98%		
	Clear Caulking (Clear)	5%	Binders / Fillers	100%		
56-MS1-185	Plaster (Grey)	100%	Aggregate	65%	06/12	BG
			Calcite / Binders	35%		
56-MS1-186	Plaster (Grey)	100%	Aggregate	65%	06/12	BG
			Calcite / Binders	35%		
56-MS1-187	Plaster (Grey)	100%	Aggregate	65%	06/12	BG
			Calcite / Binders	35%		

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

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

Client : Terracon - Lubbock  
 Project : ACM Inspection: 2-Story Office Building  
 Project # : AR177124

Lab Job No. : 17B-06602  
 Report Date : 07/17/2017

002

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
57-SC5-188	Vapor Barrier (Tan / Black)	100%	Cellulose Fibers Tar Binders	70% 30%	06/12	BG
57-SC5-189	Vapor Barrier (Tan / Black)	100%	Cellulose Fibers Tar Binders	70% 30%	06/12	BG
57-SC5-190	Vapor Barrier (Tan / Black)	100%	Cellulose Fibers Tar Binders	70% 30%	06/12	BG
58-CA5-191	Caulking (White)	100%	Calcite Binders / Fillers	50% 50%	06/12	BG
58-CA5-192	Caulking (White)	100%	Calcite Binders / Fillers	50% 50%	06/12	BG
58-CA5-193	Caulking (White)	100%	Calcite Binders / Fillers	50% 50%	06/12	BG

17B-06602 PLM 193



For use with PLM bulk samples only

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Lab Job # \_\_\_\_\_

Lab Job # \_\_\_\_\_

Lab Job # \_\_\_\_\_

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

ASBESTOS PLM

1 day  2 day  3 day  5 day  Immediate

Analyze All  Positive Stop

Billing Company / City: Terracon / Lubbock # of Samples: 193(1 - 193)  
 Submitter's Company: Terracon / Lubbock Sample Date: 06/01/17 - 06/02/17  
 Submitter's Name: Adam Finger Project #: AR177124  
 Project: ACM Inspection: 2-Story Office Bldg.

Contact Information:

Name: Terracon Lubbock Office Phone #: 806-797-0947  
 E-mail Results to: adam.finger@terracon.com Fax #: \_\_\_\_\_  
 Invoice Address: 5827 50th Street, Suite 1, Lubbock, Texas, 79424

--- 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	Location / Notes
See Attached Field Paperwork		

Released By:	Date / Time:	Received By:	Date / Time:
	6/6/17 10:00		6/7/17 9:08a
Released By:	Date / Time:	Received By:	Date / Time:

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
01 - ft2 - 001	12"x12" Vinyl floor tile (gray, speckled) and mastic (black)	Ground floor, Room 3, NW corner.
01 - ft2 - 002	12"x12" Vinyl floor tile (gray, speckled) and mastic (black)	Ground floor, Room 7, center.
01 - ft2 - 003	12"x12" Vinyl floor tile (gray, speckled) and mastic (black)	Ground floor, Room 9, center.
02 - ft2 - 004	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow/black)	Ground floor; main hallway, NW corner, Room 4 threshold.
02 - ft2 - 005	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow/black)	Ground floor, main hallway, outside Room 7.
02 - ft2 - 006	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow/black)	Ground floor, main hallway, Room 20 threshold.
03 - ft2 - 007	12"x12" Vinyl floor tile (gray, speckled) and mastic (yellow/black)	Second floor, Room 18, NE of center.
03 - ft2 - 008	12"x12" Vinyl floor tile (gray, speckled) and mastic (yellow/black)	Second floor, Room 18, center.
03 - ft2 - 009	12"x12" Vinyl floor tile (gray, speckled) and mastic (yellow/black)	Second floor, Room 18, SW of center.
04 - ft2 - 010	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow)	Second floor, Room 10, behind door.
04 - ft2 - 011	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow)	Second floor, main hallway, Room 9 threshold.
04 - ft2 - 012	12"x12" Vinyl floor tile (tan, mottled) and mastic (yellow)	Second floor, main hallway, Room 3 threshold.
05 - ft4 - 013	12"x12" Vinyl floor tile, carpet glue (yellow) and mastic (black)	Ground floor, Room 16, SE corner.
05 - ft4 - 014	12"x12" Vinyl floor tile, carpet glue (yellow) and mastic (black)	Ground floor, Room 5, NE corner.
05 - ft4 - 015	12"x12" Vinyl floor tile, carpet glue (yellow) and mastic (black)	Ground floor, Room 4, N of center.

# BUILDING INSPECTION FORM



**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
06 - ft4 - 016	9"x9" Vinyl floor tile, carpet glue (yellow) and mastic (brown)	Second floor, Room 7, NE corner.
06 - ft4 - 017	9"x9" Vinyl floor tile, carpet glue (yellow) and mastic (brown)	Second floor, Room 6, NE corner.
06 - ft4 - 018	9"x9" Vinyl floor tile, carpet glue (yellow) and mastic (brown)	Second floor, Room 5, NW corner.
07 - mg7 - 019	Carpet glue (yellow)	Ground floor, Room 10, NE corner.
07 - mg7 - 020	Carpet glue (yellow)	Second floor, Room 12, NW corner.
07 - mg7 - 021	Carpet glue (yellow)	Second floor, Room 3 threshold with Room 2.
08 - fc5 - 022	Floor coating with texture (gray/tan, sandy)	Ground floor, Room 22, NW corner.
08 - fc5 - 023	Floor coating with texture (gray/tan, sandy)	Ground floor, Room 22, E wall, center.
08 - fc5 - 024	Floor coating with texture (gray/tan, sandy)	Ground floor, Room 22, S wall, center.
09 - ma3 - 025	2"x2" Ceramic floor tile (gray) grout (gray) and thinset (gray)	Ground floor, Men's restroom, by shower drain.
09 - ma3 - 026	2"x2" Ceramic floor tile (gray) grout (gray) and thinset (gray)	Ground floor, Women's restroom, shower room by drain.
09 - ma3 - 027	2"x2" Ceramic floor tile (gray) grout (gray) and thinset (gray)	Second floor, Men's restroom, shower room by drain.
10 - ma3 - 028	18"x18" Ceramic floor tile (gray) grout (gray) and thinset (white)	Ground floor, main hallway, Room 17 threshold.
10 - ma3 - 029	18"x18" Ceramic floor tile (gray) grout (gray) and thinset (white)	Ground floor, main hallway, Room 17 threshold.
10 - ma3 - 030	18"x18" Ceramic floor tile (gray) grout (gray) and thinset (white)	Ground floor, main hallway, Room 17 threshold.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17 **Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
11 - wb6 - 031	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Ground floor, Room 5, SW corner.
11 - wb6 - 032	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Ground floor, Women's restroom foyer, NW corner.
11 - wb6 - 033	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Ground floor, Room 12, SW corner.
11 - wb6 - 034	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Ground floor, Room 18, NW corner.
11 - wb6 - 035	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Second floor, Room 12, NW corner.
11 - wb6 - 036	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Second floor, Room 8, SE corner.
11 - wb6 - 037	Drywall/Joint cmpd./Tape/Texture wall and ceiling system (multicolor, crows foot)	Second floor, Room 2, E wall, center.
12 - wb5 - 038	Friable Wall Plaster/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Ground floor, Room 19, SE corner.
12 - wb5 - 039	Friable Wall Plaster/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Ground floor, Room 16, SE corner.
12 - wb5 - 040	Friable Wall Plaster/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Ground floor, Room 14, N wall, center.
12 - wb5 - 041	Friable Wall Plaster/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Second floor, Room 14, N wall, center.
12 - wb5 - 042	Friable Wall Plaster/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Second floor, Room 20, S wall, center.
13 - wb5 - 043	Drywall/Joint cmpd./Tape/Text/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Ground floor, Room 19, NW corner.
13 - wb5 - 044	Drywall/Joint cmpd./Tape/Text/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Ground floor, Room 16, NW corner.
13 - wb5 - 045	Drywall/Joint cmpd./Tape/Text/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Second floor, Room 14, SW corner.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg.

**Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
13 - wb5 - 046	Drywall/Joint cmpd./Tape/Text/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Second floor, Room 17, N wall, E of center.
13 - wb5 - 047	Drywall/Joint cmpd./Tape/Text/Wallpaper wall system (multicolor, thatched/ribbed/smooth)	Second floor, Room 20, NE corner.
14 - wb1 - 048	Drywall/Joint cmpd./Tape wall system (brown/white, unfinished)	Ground floor, Room 21, E wall, S of center.
14 - wb1 - 049	Drywall/Joint cmpd./Tape wall system (brown/white, unfinished)	Ground floor, Room 21, N wall, behind door.
14 - wb1 - 050	Drywall/Joint cmpd./Tape wall system (brown/white, unfinished)	Ground floor, Room 21, NE corner.
15 - pl1 - 051	Friable wall plaster (white, smooth)	Ground floor, Room 21, S wall, E of center.
15 - pl1 - 052	Friable wall plaster (white, smooth)	Ground floor, Room 21, S wall, center.
15 - pl1 - 053	Friable wall plaster (white, smooth)	Ground floor, Room 21, S wall, W of center.
16 - pl1 - 054	Friable wall plaster/texture (multicolor, crows foot)	Ground floor, Room 4, N wall, center.
16 - pl1 - 055	Friable wall plaster/texture (multicolor, crows foot)	Ground floor, Room 12, N wall, center.
16 - pl1 - 056	Friable wall plaster/texture (multicolor, crows foot)	Second floor, Room 16, S wall, center.
16 - pl1 - 057	Friable wall plaster/texture (multicolor, crows foot)	Second floor, Room 11, N wall, center.
16 - pl1 - 058	Friable wall plaster/texture (multicolor, crows foot)	Second floor, Room 19, S wall, center.
16 - pl1 - 059	Friable wall plaster/texture (multicolor, crows foot)	Second floor, Room 2, W wall, center.
16 - pl1 - 060	Friable wall plaster/texture (multicolor, crows foot)	Second floor, Room 1, W wall, center.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg.

**Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
17 - sc4 - 061	Interior CMU block texture - building interior (teal, smooth)	Ground floor, Men's restroom, N accent wall.
17 - sc4 - 062	Interior CMU block texture - building interior (teal, smooth)	Ground floor, Women's restroom, S accent wall by sinks.
17 - sc4 - 063	Interior CMU block texture - building interior (teal, smooth)	Second floor, Men's restroom, accent wall dividing showers.
17 - sc4 - 064	Interior CMU block texture - building interior (teal, smooth)	Second floor, Women's restroom, accent wall dividing showers.
17 - sc4 - 065	Interior CMU block texture - building interior (teal, smooth)	Second floor, Room 18, S wall, center.
18 - wb4 - 066	Drywall/joint cmpd./Tape/Texture wall system (teal, smooth)	Ground floor, Room 20, NW corner.
18 - wb4 - 067	Drywall/joint cmpd./Tape/Texture wall system (teal, smooth)	Ground floor, Room 20, NE corner.
18 - wb4 - 068	Drywall/joint cmpd./Tape/Texture wall system (teal, smooth)	Ground floor, Room 20, W wall, center.
19 - wb4 - 069	Drywall/joint cmpd./Tape/Texture wall system (beige, rough)	Ground floor, Storage room under stairs, NW corner.
19 - wb4 - 070	Drywall/joint cmpd./Tape/Texture wall system (beige, rough)	Ground floor, Storage room under stairs, NE corner.
19 - wb4 - 071	Drywall/joint cmpd./Tape/Texture wall system (beige, rough)	Ground floor, Storage room under stairs, SW corner.
20 - sc4 - 072	Interior CMU block texture - buildout interior (white, smooth)	Enclosed stairs, Ground floor, W wall, S of NW corner.
20 - sc4 - 073	Interior CMU block texture - buildout interior (white, smooth)	Enclosed stairs, landing, S wall, center.
20 - sc4 - 074	Interior CMU block texture - buildout interior (white, smooth)	Enclosed stairs, Second floor, W wall, S of NW corner.
21 - ct4 - 075	2'x4' Ceiling tile (white, solid)	Ground floor, Room 3, SW of center.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Inspector:** Adam Finger/Les McDaniel

**Date:** 06/01/17 - 06/02/17

Sample No.	Material Description	Location
21 - ct4 - 076	2'x4' Ceiling tile (white, solid)	Ground floor, Room 22, W of center.
21 - ct4 - 077	2'x4' Ceiling tile (white, solid)	Ground floor, Room 3, N of center.
22 - ct4 - 078	2'x4' Ceiling tile (white, pin-fissure)	Ground floor, Room 19, W of center.
22 - ct4 - 079	2'x4' Ceiling tile (white, pin-fissure)	Ground floor, Room 5, center.
22 - ct4 - 080	2'x4' Ceiling tile (white, pin-fissure)	Second floor, Room 13, center.
23 - ct4 - 081	2'x4' Ceiling tile (white, fissure-pin)	Ground floor, Room 19, SE corner.
23 - ct4 - 082	2'x4' Ceiling tile (white, fissure-pin)	Ground floor, Room 5, W of center.
23 - ct4 - 083	2'x4' Ceiling tile (white, fissure-pin)	Second floor, Room 11, W of center.
24 - wb2 - 084	Drywall ceiling (brown, unfinished)	Ground floor, Room 21, N of SW corner.
24 - wb2 - 085	Drywall ceiling (brown, unfinished)	Ground floor, Room 21, N of SE corner.
24 - wb2 - 086	Drywall ceiling (brown, unfinished)	Ground floor, Room 21, S of NE corner.
25 - ct1 - 087	1'x1' Ceiling tile (white, fissure) and button mastic (brown)	Ground floor, Room 20, W of center.
25 - ct1 - 088	1'x1' Ceiling tile (white, fissure) and button mastic (brown)	Ground floor, Room 11, S wall, center.
25 - ct1 - 089	1'x1' Ceiling tile (white, fissure) and button mastic (brown)	Second floor, Room 12, E wall, center.
26 - ct1 - 090	1'x1' Ceiling tile (white, holes) and button mastic (brown)	Ground floor, Room 5, center.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
26 - ct1 - 091	1'x1' Ceiling tile (white, holes) and button mastic (brown)	Ground floor, Room 3, SW of center.
26 - ct1 - 092	1'x1' Ceiling tile (white, holes) and button mastic (brown)	Second floor, Room 13, center.
27 - wb5 - 093	Drywall/joint cmpd./Tape/Texture ceiling system (white, crows foot)	Enclosed stairs, NE corner.
27 - wb5 - 094	Drywall/joint cmpd./Tape/Texture ceiling system (white, crows foot)	Enclosed stairs, NW corner.
27 - wb5 - 095	Drywall/joint cmpd./Tape/Texture ceiling system (white, crows foot)	Enclosed stairs, E of center.
28 - fc3 - 096	Cove base mastic (black/brown/yellow)	Ground floor, Room 6, E wall, center.
28 - fc3 - 097	Cove base mastic (black/brown/yellow)	Ground floor, Room 19, NW corner.
28 - fc3 - 098	Cove base mastic (black/brown/yellow)	Second floor, Room 6, NE corner.
29 - ma3 - 099	Ceramic window sill grout (gray) and adhesive (gray)	Ground floor, Room 3, S window.
29 - ma3 - 100	Ceramic window sill grout (gray) and adhesive (gray)	Ground floor, Room 3, S window.
29 - ma3 - 101	Ceramic window sill grout (gray) and adhesive (gray)	Second floor, Room 14, N wall, center.
30 - mi5 - 102	Duct mastic (gray)	Ground floor, Room 21, HVAC, S.
30 - mi5 - 103	Duct mastic (gray)	Ground floor, Room 21, HVAC, center.
30 - mi5 - 104	Duct mastic (gray)	Ground floor, Room 21, HVAC, N.
31 - wp1 - 105	HVAC vibration joint cloth (black)	Ground floor, Room 21, HVAC duct, E.

# BUILDING INSPECTION FORM

178-06602  
**Terracon**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
31 - wp1 - 106	HVAC vibration joint cloth (black)	Ground floor, Room 21, HVAC duct, center.
31 - wp1 - 107	HVAC vibration joint cloth (black)	Ground floor, Room 21, HVAC duct, S.
32 - fc6 - 108	Leveling compound (white)	Ground floor, Room 4 threshold.
32 - fc6 - 109	Leveling compound (white)	Ground floor, Room 11 threshold.
32 - fc6 - 110	Leveling compound (white)	Second floor, Room 10, behind door.
33 - ca2 - 111	Interior door/interior window caulk (white)	Ground floor, Room 22, N wall, W side of door.
33 - ca2 - 112	Interior door/interior window caulk (white)	Second floor, stairs, W side of door.
33 - ca2 - 113	Interior door/interior window caulk (white)	Second floor, Room 4, W side of door.
34 - ca5 - 114	Floor caulk (white)	Second floor, Women's restroom, accent wall dividing showers, N.
34 - ca5 - 115	Floor caulk (white)	Second floor, Women's restroom, accent wall dividing showers, center.
34 - ca5 - 116	Floor caulk (white)	Second floor, Women's restroom, accent wall dividing showers, S.
35 - ma3 - 117	Ceramic tile cover base (gray), grout (gray) and adhesive (gray)	Ground floor, main hallway, security door, S.
35 - ma3 - 118	Ceramic tile cover base (gray), grout (gray) and adhesive (gray)	Ground floor, main hallway, security door, N.
35 - ma3 - 119	Ceramic tile cover base (gray), grout (gray) and adhesive (gray)	Ground floor, main hallway, security door, N.
36 - ma3 - 120	Ceramic cover base (white), grout (white) and adhesive (gray)	Second floor, Men's restroom, W wall below sinks.

# BUILDING INSPECTION FORM



**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
36 - ma3 - 121	Ceramic cove base (white), grout (white) and adhesive (gray)	Second floor, Men's restroom, W wall below sinks.
36 - ma3 - 122	Ceramic cove base (white), grout (white) and adhesive (gray)	Second floor, Men's restroom, W wall below sinks.
37 - fc5 - 123	Stair tread mastic (yellow/brown)	Stairs, below landing.
37 - fc5 - 124	Stair tread mastic (yellow/brown)	Stairs, below landing.
37 - fc5 - 125	Stair tread mastic (yellow/brown)	Stairs, above landing.
38 - mg9 - 126	Fiber reinforced panel (FRP) mastic (tan)	Ground floor, Room 9, S wall, W of door.
38 - mg9 - 127	Fiber reinforced panel (FRP) mastic (tan)	Ground floor, Room 9, S wall, W of door.
38 - mg9 - 128	Fiber reinforced panel (FRP) mastic (tan)	Ground floor, Room 9, S wall, W of door.
39 - sc1 - 129	Exterior window pane/sash glazing (gray)	Ground floor, Room 3, W wall, N window.
39 - sc1 - 130	Exterior window pane/sash glazing (gray)	Ground floor, Room 14, N wall window.
39 - sc1 - 131	Exterior window pane/sash glazing (gray)	Ground floor, Room 16, S wall, E window.
40 - fd1 - 132	Metal door insulation (white)	Ground floor, Room 3, N wall door.
40 - fd1 - 133	Metal door insulation (white)	Ground floor, Room 3, E door.
40 - fd1 - 134	Metal door insulation (white)	Second floor stairs door.
41 - mi5 - 135	Duct mastic (black)	Ground floor, Room 21, W wall HVAC, N.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17 **Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
41 - m15 - 136	Duct mastic (black)	Ground floor, Room 21, W wall HVAC, S.
41 - m15 - 137	Duct mastic (black)	Ground floor, Room 21, W wall HVAC, center.
42 - m15 - 138	Interior block sealant (black)	Ground floor, Room 21, S wall, W of center.
42 - m15 - 139	Interior block sealant (black)	Ground floor, Room 21, S wall, center.
42 - m15 - 140	Interior block sealant (black)	Ground floor, Room 21, S wall, E of center.
43 - mj4 - 141	Fiberglass pipe insulation (white)	Ground floor, Room 21, along E wall, S of center.
43 - mj4 - 142	Fiberglass pipe insulation (white)	Ground floor, Room 21, along E wall, center.
43 - mj4 - 143	Fiberglass pipe insulation (white)	Ground floor, Room 21, NE corner.
44 - rf6 - 144	Membrane roof core (multicolor)	W edge, center.
44 - rf6 - 145	Membrane roof core (multicolor)	W of center.
44 - rf6 - 146	Membrane roof core (multicolor)	E edge, center.
45 - ca5 - 147	Roof caulk (white)	W quarter, center.
45 - ca5 - 148	Roof caulk (white)	SW of center.
45 - ca5 - 149	Roof caulk (white)	W of SE corner.
47 - ca1 - 150	Exterior accent stucco (red)	E wall, main entrance, N.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17 **Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
47 - ca1 - 151	Exterior accent stucco (red)	E wall, main entrance, S.
47 - ca1 - 152	Exterior accent stucco (red)	SE corner.
48 - ma6 - 153	Exterior aggregate stucco (tan)	E wall, main entrance, N.
48 - ma6 - 154	Exterior aggregate stucco (tan)	E wall, main entrance, S.
48 - ma6 - 155	Exterior aggregate stucco (tan)	E wall, S of main entrance, center.
48 - ma6 - 156	Exterior aggregate stucco (tan)	E wall, S of main entrance, S window.
48 - ma6 - 157	Exterior aggregate stucco (tan)	SE corner.
49 - ca3 - 158	Exterior wall caulk (white)	Enclosed stairs, NW corner.
49 - ca3 - 159	Exterior wall caulk (white)	Enclosed stairs, NW corner.
49 - ca3 - 160	Exterior wall caulk (white)	Enclosed stairs, NE corner.
50 - ca5 - 161	Roof seam caulk (white)	Covered area, S edge, E.
50 - ca5 - 162	Roof seam caulk (white)	Covered area, S edge, center.
50 - ca5 - 163	Roof seam caulk (white)	Covered area, S edge, W.
51 - sc5 - 164	Exterior brick texture (beige)	NW corner.
51 - sc5 - 165	Exterior brick texture (beige)	N wall, E of door.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17 **Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
51 - sc5 - 166	Exterior brick texture (beige)	N wall, center.
51 - sc5 - 167	Exterior brick texture (beige)	NE corner.
51 - sc5 - 168	Exterior brick texture (beige)	SE corner.
51 - sc5 - 169	Exterior brick texture (beige)	S wall, next to second window from E.
51 - sc5 - 170	Exterior brick texture (beige)	SW corner.
52 - sc4 - 171	Exterior CMU block texture (beige)	Enclosed stairs, NE corner.
52 - sc4 - 172	Exterior CMU block texture (beige)	Enclosed stairs, SE corner.
52 - sc4 - 173	Exterior CMU block texture (beige)	Enclosed stairs, SW corner.
52 - sc4 - 174	Exterior CMU block texture (beige)	Enclosed stairs, W wall, center.
52 - sc4 - 175	Exterior CMU block texture (beige)	Enclosed stairs, NW corner.
53 - ca2 - 176	Exterior door caulk (white)	N wall, W side of door.
53 - ca2 - 177	Exterior door caulk (white)	S wall, E side of door.
53 - ca2 - 178	Exterior door caulk (white)	Enclosed stairs, E wall, S side of door.
54 - ma3 - 179	Exterior accent tile (brown) grout (gray) and adhesive (gray)	NE corner.
54 - ma3 - 180	Exterior accent tile (brown) grout (gray) and adhesive (gray)	E wall, N of main entrance.

**BUILDING INSPECTION FORM**

**Project No./Project:** AR177124/ACM Inspection: 2-Story Office Bldg. **Client:** Midland County

**Date:** 06/01/17 - 06/02/17

**Inspector:** Adam Finger/Les McDaniel

Sample No.	Material Description	Location
54 - ma3 - 181	Exterior accent tile (brown) grout (gray) and adhesive (gray)	SE corner.
55 - ca1 - 182	Exterior window caulk (gray)	S wall, E window.
55 - ca1 - 183	Exterior window caulk (gray)	N wall, E window.
55 - ca1 - 184	Exterior window caulk (gray)	N wall, W window.
56 - ms1 - 185	Plaster debris (white)	Ground floor, Room 21, along S wall, W.
56 - ms1 - 186	Plaster debris (white)	Ground floor, Room 21, along S wall, center.
56 - ms1 - 187	Plaster debris (white)	Ground floor, Room 21, along S wall, E.
57 - sc5 - 188	Tar paper/HVAC vapor barrier (black)	Ground floor, Men's restroom, center.
57 - sc5 - 189	Tar paper/HVAC vapor barrier (black)	Ground floor, Men's restroom, center.
57 - sc5 - 190	Tar paper/HVAC vapor barrier (black)	Ground floor, Men's restroom, center.
58 - ca5 - 191	Door and stair caulk (white)	Enclosed stairs, E wall, S side of door.
58 - ca5 - 192	Door and stair caulk (white)	Enclosed stairs, E wall, below stairs frame.
58 - ca5 - 193	Door and stair caulk (white)	Enclosed stairs, E wall, below stairs frame.

**APPENDIX D**  
**PHOTOGRAPHS**

**Site Photographs**

Two-Story Office Building ■ 509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 1.** View of the two-story office building from Loraine Street facing southwest.



**Photo 2.** View of the two-story office building facing northwest.

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 3.** View of the 12"x12" vinyl floor tile (gray, mottled) with ACM black mastic.



**Photo 4.** View of the 12"x12" vinyl floor tile (tan, mottled) and ACM black mastic

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 5.** View of the carpet over ACM 12"x12" vinyl floor tile and black mastic in the first floor offices.



**Photo 6.** View of drywall wall system with ACM texture and joint compound.

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 7.** View of the friable wall plaster/wallpaper wall system wall with ACM joint compound.



**Photo 8.** View of the drywall/joint compound/tape/wallpaper wall system with ACM joint compound on the accent walls.

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 9.** View of drywall/joint compound wall system with ACM joint compound.



**Photo 10.** View of the friable wall plaster/texture wall system wall with ACM joint compound.

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 11.** View of drywall/joint compound/tape/texture wall system (teal, smooth) with ACM texture and joint compound.



**Photo 12.** View of drywall/joint compound/tape/texture wall system (beige, rough) with ACM texture and joint compound under stairs.

**Site Photographs**

Two Story Office Building ■ 2509 North Loraine Street, Midland, Texas  
July 29, 2017 ■ Terracon Project No. AR177124



**Photo 13.** View of membrane roof over built-up roof with ACM roof tar.



**Photo 14.** View of exterior window and ACM caulk.

**APPENDIX E**  
**LICENSES**



**Texas Department of  
State Health Services**

**Asbestos Individual Consultant**

**ADAM G FINGER**

**License No. 105772**

**Control No. 96961**

**Expiration Date: 2/18/2018**





**Health Services**

Asbestos Inspector

**LES N MCDANIEL**

**License No. 603558**

**Control No. 98520**

**Expiration Date: 2/8/2019**





# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

## TERRACON CONSULTANTS INC

*is certified to perform as a*

### **Asbestos Consultant Agency**

*in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.*

A handwritten signature in cursive script, appearing to read "John Hellerstedt".

JOHN HELLERSTEDT, M.D.  
COMMISSIONER OF HEALTH

License Number: 100157

Expiration Date: 11/30/2018

Control Number: 96944

(Void After Expiration Date)

VOID IF ALTERED      NON-TRANSFERABLE



# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

## STEVE MOODY MICRO SERVICES LLC

is certified to perform as a

**Asbestos Laboratory  
PCM, PLM, TEM**

*in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.*

A handwritten signature in cursive script, appearing to read "John Hellerstedt".

JOHN HELLERSTEDT, M.D.  
COMMISSIONER OF HEALTH

License Number: 300084

Control Number: 96126

Expiration Date: 5/31/2018

(Void After Expiration Date)

VOID IF ALTERED      NON-TRANSFERABLE

United States Department of Commerce  
National Institute of Standards and Technology



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# Certificate of Accreditation to ISO/IEC 17025:2005

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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 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2017-07-01 through 2018-06-30

*Effective Dates*



A handwritten signature in blue ink, which appears to read "Peter S. Lamm".

*For the National Voluntary Laboratory Accreditation Program*



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

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

**Airborne Asbestos Analysis**

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

For the National Voluntary Laboratory Accreditation Program

**APPENDIX C**  
**TDSHS NOTIFICATION**

## Notification Data Summary

2018/04/24

Page 1 of 3

Notification Number **2018003365**  
 Status **Amendment # 1**

### Facility Owner

Name **Midland County**  
Attention **Mr. Tim Harris**  
Address **500 North Loraine  
MIDLAND, TX 79701**  
Phone **432-688-4151**

### Section I - Facility Information

Type **Public**  
Is this a phased abatement project? **No**  
Facility **Two-Story Office Building  
509 North Loraine  
MIDLAND  
MIDLAND, TX  
79501**  
  
  
 Facility Contact **Mr. Tim Harris**  
Phone **432-688-4151**  
 Area Description/ Room Number **Select walls throughout 1st and 2nd floors.**  
Age of building **78 years**  
Size **13285 square feet**  
Number of floors **2**  
Is Building Occupied? **No**  
Is the facility a School K-12? **No**  
Date of Asbestos Survey/NESHAP Inspection **Jul 29, 2017**  
Analytical Method **PLM**

### Section II - Type of Notification

Type **Amendment**  
Is this project an emergency? **No**

### Section III - Type of Work/Schedule

Type **Abatement**  
Asbestos Abatement Work Schedule  
Start Date **May 08, 2018**  
End Date **May 18, 2018**  
Day(s) of Operation **Mon, Tue, Wed, Thu, Fri,**  
Work Hours **8:00 AM to 6:00 PM**  
Select abatement methods to be used **Full Containment**



## Section IV - Asbestos to be Affected by Abatement/Demolition Activity

Interior Category II non-friable removed	
Linear Feet	0
Square Feet	7500

## Section V - Description of work practices

Description	<p>The asbestos containing drywall/joint compound/tape/texture wall systems will be abated in a full containment consisting of two (2) layers of fire retardant four (4) mil polyethylene sheeting on the walls and two (2) layers of fire retardant six (6) mil polyethylene sheeting on the floors (where applicable), in conjunction critical barriers, negative pressure, and a three chambered wet decontamination system.</p> <p>Spray asbestos containing material with amended water or removal encapsulant. Allow time for amended water or removal encapsulant to saturate the material. Do not over saturate to cause excess dripping. If amended water is used, spray material repeatedly during the work process to maintain a continuously wet condition. If a removal encapsulant is used, apply in strict accordance with manufacturer's written instruction. The asbestos containing materials will be removed in conjunction with the drywall substrate. All nails and/or screws used to attach the drywall to the wall studs must be removed or cleaned thoroughly. The use of mechanical methods for removal will not be permitted. The clean surfaces will be encapsulated after passing a visual inspection conducted by a Terracon representative. The abated material will be bagged and disposed in accordance with federal and state guidelines.</p>
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## Section VI - Project Personnel

Asbestos Abatement Contractor



DSHS License #	<b>800717</b>
Name	<b>VANCO INSULATION INC</b>
Attention	<b>Randall Elkins</b>
Address	<b>5804 S FM RD 1788 MIDLAND, TX 79706</b>
Phone	<b>432-561-9224</b>
Jobsite Phone	<b>432-202-4047</b>

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Project Consultant	
Name	<b>Terracon Consultants</b>
Attention	<b>Adam Finger</b>
Address	<b>5827 50th Street #1 LUBBOCK, TX 79424</b>
Phone	<b>806-686-0783</b>

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Waste Disposal Site	
TCEQ Permit #	<b>H2158</b>
Name	<b>Republic Services Charter Landfill</b>
Address	<b>12035 West Murphy Street ODESSA, TX 79763</b>
Phone	<b>432-381-6726</b>

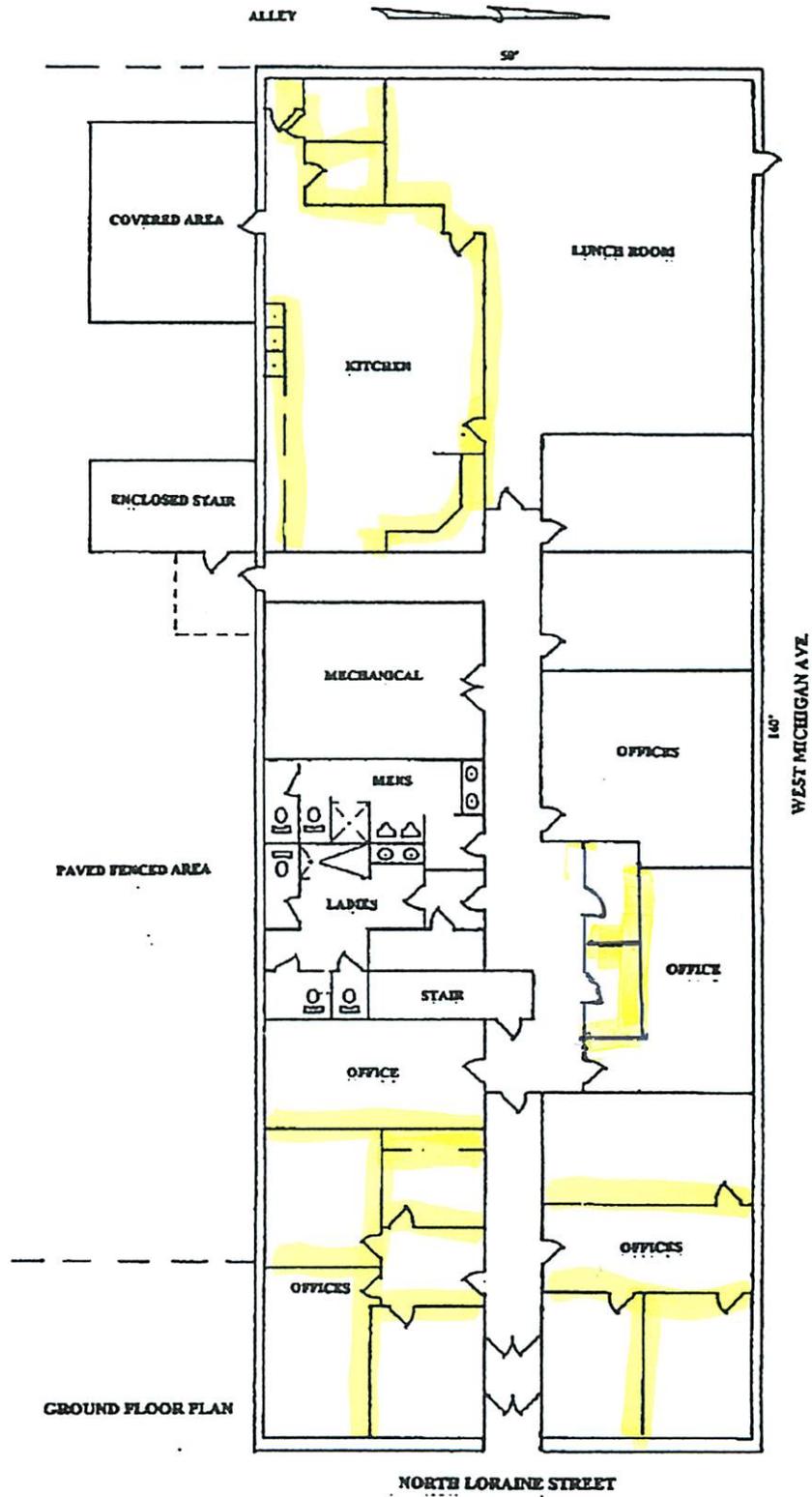
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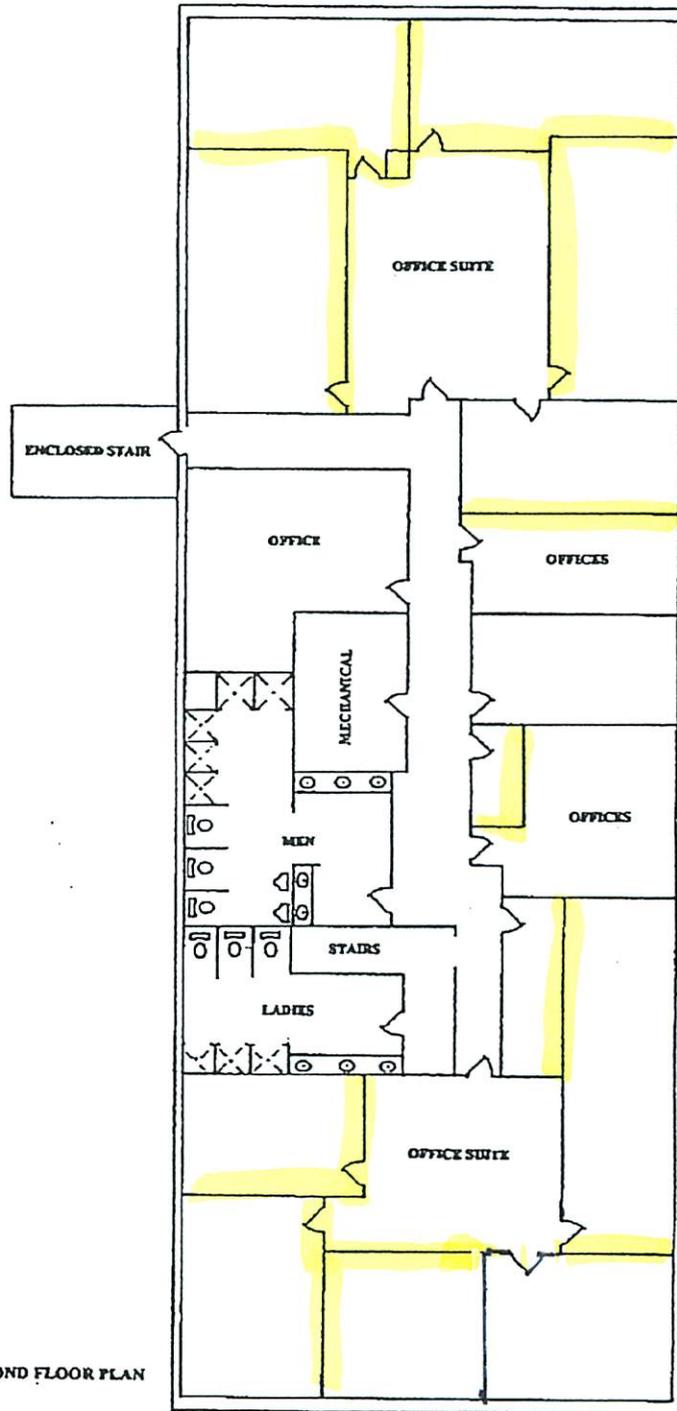
Waste Transporter	
DSHS License #	<b>400294</b>
Name	<b>VANCO INSULATION INC</b>
Address	<b>5804 S FM 1788 MIDLAND, TX 79706</b>
Phone	<b>432-561-9224</b>

### Certification Statement

Name	<b>Adam Finger</b>
Title	<b>PM</b>
<input checked="" type="checkbox"/> Company Affiliation	<b>Terracon Consultants</b>
Phone	<b>806-686-0783</b>
Email	<b>adam.finger@terracon.com</b>
Date	<b>Apr 24, 2018</b>







SECOND FLOOR PLAN

# Budget for Transitional Housing Project

## *Predominantly Anti-Ligature*

	Product	Price	# Needed	Total Cost
<b>Living Area</b>	Element Lounge Chair	\$ 843.75	2	\$ 1,687.50
	Element Sofa	\$ 1,575.00	1	\$ 1,575.00
	Element Loveseat	\$ 1,181.25	1	\$ 1,181.25
<b>Dining Area</b>	Forte Tables	\$ 518.85	7	\$ 3,631.95
	Forte Chairs			
	Arms	\$ 448.20	7	\$ 3,137.40
	No Arms	\$ 408.60	21	\$ 8,580.60
<b>Bedroom</b>	Attenda Bed	\$ 1,031.85	25	\$ 25,781.25
	Attenda Wardrobe	\$ 1,026.45	25	\$ 25,661.25
	Attenda Nightstand	\$ 263.70	25	\$ 6,592.50
	Remedy Mattress	\$ 275.40	25	\$ 6,885.00
<b>Bathroom</b>	Security Grab Bar	\$ 69.75	25	\$ 1,743.75
	Wall Mirror	\$ 35.10	25	\$ 877.50
<b>Patio</b>	Hilltop Picnic Table	\$ 1,651.05	1	\$ 1,651.05
	Bench	\$ 666.90	1	\$ 666.90
<b>Total Cost</b>				<b>\$ 89,652.90</b>

## Partially Anti-Ligature

	Product	Price	# Needed	Total Cost
<b>Living Area</b>	Darcy 75002 3-pc.	\$ 999.00	1	\$ 999.00
<b>Dining Area</b>	Dining Table 107321	\$ 179.00	7	\$ 1,253.00
	Dining Chair 107322	\$ 89.00	28	\$ 2,492.00
<b>Bedroom</b>	Attenda Bed	\$ 1,031.85	25	\$ 25,781.25
	Attenda Wardrobe	\$ 1,026.45	25	\$ 25,661.25
	Attenda Nightstand	\$ 263.70	25	\$ 6,592.50
	Remedy Mattress	\$ 275.40	25	\$ 6,885.00
<b>Bathroom</b>	Security Grab Bar	\$ 69.75	25	\$ 1,743.75
	Wall Mirror	\$ 35.10	25	\$ 877.50
<b>Patio</b>	Outdoor Bench P015-9	\$ 259.00	1	\$ 259.00
	Round Picnic Table	\$ 899.00	1	\$ 899.00
<b>Total Cost</b>				<b>\$ 73,443.25</b>

## No Anti-Ligature

	Product	Price	# Needed	Total Cost
<b>Living Area</b>	Darcy 75002 3-pc.	\$ 999.00	1	\$ 999.00
<b>Dining Area</b>	Dining Table 107321	\$ 179.00	7	\$ 1,253.00
	Dining Chairs 107322	\$ 89.00	28	\$ 2,492.00
<b>Bedroom</b>	Bed Frame	\$ 49.00	25	\$ 1,225.00
	Mattress	\$ 199.00	25	\$ 4,975.00
	Dresser	\$ 329.00	25	\$ 8,225.00
	Nightstand	\$ 149.00	25	\$ 3,725.00
<b>Patio</b>	Outdoor Bench P015-9	\$ 259.00	1	\$ 259.00
	Round Picnic Table	\$ 899.00	1	\$ 899.00
<b>Total Cost</b>				<b>\$ 24,052.00</b>

## Living Essentials

	Product	Price	# Needed	Total Cost
<b>Dining Room</b>	Place Mat Set	\$ 24.19	7	\$ 169.33
	Linen Napkins-12 pk	\$ 11.99	3	\$ 35.97
<b>Bedroom</b>	Comforter with Sheets	\$ 49.99	25	\$ 1,249.75
	Pillow	\$ 4.49	25	\$ 112.25
<b>Bathroom</b>	Towel Set/6pc.	\$ 30.00	25	\$ 750.00
<b>Patio</b>	Portable Basketball System	\$ 113.99	1	\$ 113.99
<b>Total Cost</b>				<b>\$ 2,431.29</b>

## ***Kitchen Equipment/Supplies***

<b>Product</b>	<b>Price</b>	<b># Needed</b>	<b>Total Cost</b>
Microwave	\$ 205.00	1	\$ 205.00
Freezer/Refrigerator Combo	\$ 2,558.00	1	\$ 2,558.00
Gas Range	\$ 2,299.00	1	\$ 2,299.00
Toaster Oven	\$ 549.00	1	\$ 549.00
Ice/Water Machine	\$ 2,389.00	1	\$ 2,389.00
Dishwasher	\$ 2,729.12	1	\$ 2,729.12
Dinner Plates (case)	\$ 31.78	3	\$ 95.34
Bouillon Cup (case)	\$ 14.64	3	\$ 43.92
Mug (case)	\$ 29.41	3	\$ 88.23
Salad Bowl (case)	\$ 22.98	3	\$ 22.98
Knife (case)	\$ 2.63	3	\$ 7.89
Fork (case)	\$ 0.90	3	\$ 2.70
Teaspoon (case)	\$ 0.90	3	\$ 2.70
Tablespoon (case)	\$ 2.95	3	\$ 8.85
Plastic Tumbler	\$ 6.39	3	\$ 19.17
<b>Total Cost</b>			<b>\$ 11,020.90</b>