

# Asbestos Survey Report

I-49 Connector (Lafayette)

SPN: 455-01-0034/H.003453, Parcel ADV-57, House  
Louisiana Department of Transportation and Development  
Lafayette, Lafayette Parish, Louisiana

November 23, 2016

Terracon Project No. EH167282



**Prepared for:**

Louisiana Department of Transportation and Development  
Baton Rouge, Louisiana

**Prepared by:**

Terracon Consultants, Inc.  
Baton Rouge, Louisiana

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

**Terracon**

Environmental



Facilities



Geotechnical



Materials



November 23, 2016

Louisiana Department of Transportation and Development  
1201 Capitol Access Road, Room 506 C  
Baton Rouge, Louisiana 70802

Attn: Ms. Kimberly Foreman

Re: SPN: 455-01-0034/H.003453  
I-49 Connector (Lafayette)  
Asbestos Survey  
Parcel ADV-57, House  
Lafayette, Lafayette Parish, Louisiana  
Terracon Project No. EH167282

Dear Ms. Foreman:

The purpose of this report is to present the results of an asbestos survey performed on November 10 2016, at the above referenced structure in Lafayette, Lafayette Parish, Louisiana. This survey was conducted in accordance with the Task Order, dated October 21, 2016, between Terracon Consultants, Inc. (Terracon) and Louisiana Department of Transportation and Development (LDOTD). We understand this survey was requested due to the planned demolition of the structure as part of the I-49 Connector construction project in Lafayette Parish.

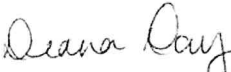
Asbestos containing materials (ACM) were identified. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to the LDOTD. If you have any questions regarding this report, please contact the undersigned at 225-344-6052.

Sincerely,

**Terracon**

  
Phillip M. Bellan  
Senior Staff Industrial Hygienist

 For  
Zack L. Dial, P.E.  
Senior Engineer

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## **EXECUTIVE SUMMARY – SPN: H.003453, PARCEL ADV-57, House**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residential structure located on Parcel ADV-57 in Lafayette, Lafayette Parish, Louisiana. The property address is 202 2<sup>nd</sup> Street in Lafayette, Louisiana and Terracon understands the Louisiana Department of Transportation and Development (LDOTD) is the property owner. It is our understanding that LDOTD is planning to sell the structure for it to be moved or demolished as part of the I-49 Connector construction project in Lafayette Parish. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on November 10, 2016, by Mr. Phillip M. Bellan, a Louisiana Department of Environmental Quality (LDEQ) certified asbestos inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. Forty-two (42) bulk samples were collected from fourteen (14) homogeneous areas of suspect ACM. Asbestos in concentrations of more than one percent (1%) was identified in the following materials:

- Black roofing
- Black tar
- Tan 12" x 12" Floor tile
- Dark brown sheet vinyl beneath non-ACM wood pattern tile
- Tan floor tile beneath non-ACM wood pattern tile.
- Dark brown sheet vinyl beneath non-ACM below wood pattern laminate

The black roofing and the black roofing tar was identified on the exterior of the structure below the metal sheet roofing, the tan 12" x 12" floor tile was identified in the HVAC closet, the tan peel-n-stick wood pattern tile and associated sheet vinyl were identified in the restroom. The brown sheet vinyl associated with flooring below wood pattern laminate was identified in the bedroom and living room. These materials are considered Category I Non-friable ACM. According to LDEQ and EPA NESHAP regulations, resilient flooring, associated flooring adhesives, and pliable mastics, are considered Category I non-friable materials unless they are damaged to the extent that they could be crumbled, pulverized or reduced to powder by hand pressure when dry. Such Category I non-friable ACM need not be removed unless demolition or renovation activities will involve intentional burning, grinding, mechanically chipping, drilling, sand or bead blasting, explosive demolition or other methods which could mechanically powder the material or otherwise render it friable.

Terracon recommends that the identified ACM be removed and disposed of by a Louisiana-licensed asbestos abatement contractor prior to any renovation activity that will disturb the asbestos-containing materials identified.

Please refer to the attached report for details.



# **ASBESTOS SURVEY REPORT**

**I-49 Connector (Lafayette)  
SPN: H.003453, Parcel ADV-57, House  
Lafayette, Lafayette Parish, Louisiana**

**Terracon Project No. EH167282**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the vacant residential structure located on Parcel ADV-57 in Lafayette, Lafayette Parish, Louisiana. The survey was conducted on November 10, 2016 by Mr. Phillip M. Bellan; a LDEQ certified asbestos inspector, in accordance with the Task Order dated, October 21, 2016, between Terracon and LDOTD. Interior and exterior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. 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.

### **1.1 Project Objective**

We understand this asbestos survey was requested due to the planned demolition of the structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) and Louisiana Environmental Regulatory Code (ERC) Title 33, Part III, Section 5151, prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The EPA NESHAP and LDEQ regulations requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

## **2.0 BUILDING DESCRIPTION**

The structure is an approximate one-story, wood-frame vacant residence on a pier foundation with unknown construction date. The exterior consists of wood and vinyl siding with wood frame windows and doors. Interior walls consist of paneling with wall paper, the ceiling consists of interlocking ceiling tiles and floors were a variety of resilient sheet and tile flooring. Central HVAC system was observed.

## **3.0 FIELD ACTIVITIES**

The survey was conducted by Mr. Phillip M. Bellan, a LDEQ certified asbestos inspector. A copy of Mr. Bellan's asbestos inspector certificate is attached in Appendix D. The survey was conducted in general accordance with the sample collection protocols established in EPA

regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

### **3.1 Visual Assessment**

Our survey activities began with visual observation of the 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, and texture with consideration given to the date of application. Interior and exterior assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Where applicable, Terracon lifted flooring in several areas in the building and did not observe additional floor coverings/layers except where noted in this report; however, as Terracon could not assess beneath all areas with flooring present, there may be isolated areas of additional suspect material present beneath carpet and floor tiles.

### **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.

Forty-two (42) bulk samples were collected from fourteen (14) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A.

### **3.4 Sample Analysis**

Bulk samples were submitted under chain of custody to Quantem Laboratories (Quantem) in Oklahoma City, Oklahoma for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopical visual estimation. Quantem is accredited under the



National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 101959-0) and Louisiana Environmental Laboratory Accreditation Program (LELAP Accreditation No.04143).

#### 4.0 REGULATORY OVERVIEW

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Under NESHAP, ACM is identified as either friable, Category I non-friable or Category II non-friable ACM. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity.

Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar and grouts.

The State of Louisiana has established Chapter 27 of the ERC (LAC 33:III.Chapter 27) to regulate the identification, management, and abatement of ACM in schools and state buildings. Chapter 27 requires any asbestos-related activity in a school or state building to be performed by an individual or company accredited by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, 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 or any other activity required to be accredited under Louisiana Department of Environmental Quality Chapter 27 Appendix A.

In non-state, non-school buildings, the State of Louisiana sets forth emission standards for asbestos under Chapter 51 of the ERC (LAC 33:III.Chapter 51). Per Chapter 51 Section P, the following activities, when conducted, must be performed by accredited individuals: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos.



Under Chapter 51, Section F, RACM must be removed prior to renovation or demolition activities that will disturb the materials. LDEQ requires a 10-working day notification (Form AAC-2) of any demolition activity, regardless of whether the building contains asbestos, and any renovation activity which disturbs RACM. In addition, LDEQ requires a 3-working day notification prior to the start of the removal of resilient floor covering by using dry ice, heat, wet methods, and chemicals where the tiles or sheeting are removed intact or asbestos-containing mastic removed by chemical or other means that results in the waste material being bound within a macro substrate and cannot reasonably become airborne. Any individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Louisiana Licensing Board for Contractors to perform asbestos abatement.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30 minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA's asbestos permissible exposure limits (PELs). The USOSHA 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.

## 5.0 FINDINGS AND RECOMMENDATIONS

Asbestos in concentrations of more than one percent (1%) was identified in the following materials:

- Black roofing
- Black tar
- Tan 12" x 12" Floor tile
- Dark brown sheet vinyl associated with peel-n-stick wood pattern tile
- Tan floor tile associated with peel-n-stick wood pattern tile.
- Dark brown sheet vinyl associated with flooring below wood pattern laminate

The black roofing and the black roofing tar was identified on the exterior of the structure below the metal sheet roof, the tan 12" x 12" floor tile was identified in the HVAC closet, the tan peel-n-stick wood pattern tile and associated sheet vinyl were identified in the restroom. The brown sheet vinyl associated with flooring below wood pattern laminate was identified in the bedroom and living room. These materials are considered Category I Non-friable ACM in poor condition. According to LDEQ and EPA NESHAP regulations, resilient flooring, associated flooring adhesives, and pliable mastics, are considered Category I non-friable materials unless they are damaged to the extent that they could be crumbled, pulverized or reduced to powder by hand

pressure when dry. Such Category I non-friable ACM need not be removed unless demolition or renovation activities will involve intentional burning, grinding, mechanically chipping, drilling, sand or bead blasting, explosive demolition or other methods which could mechanically powder the material or otherwise render it friable.

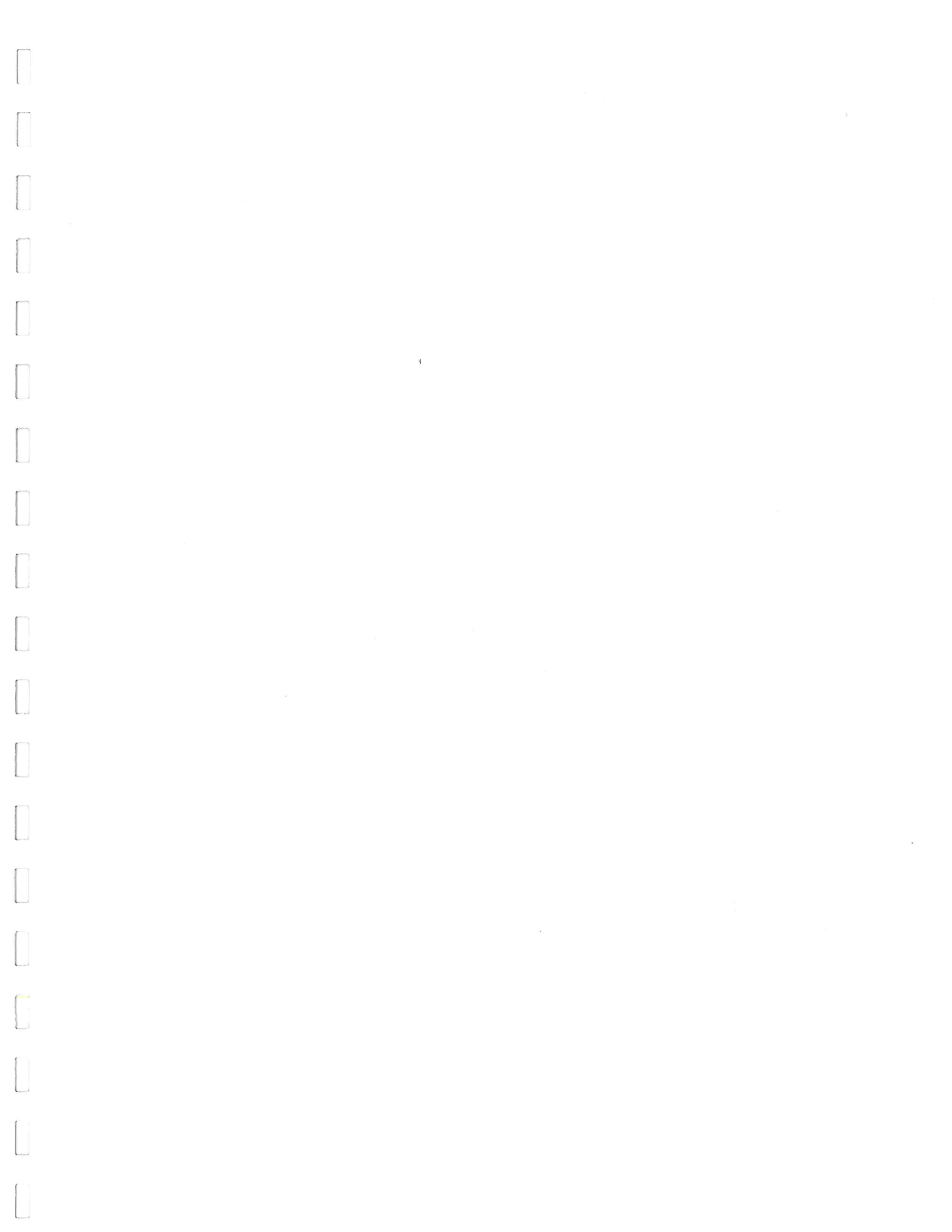
It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during a renovation or demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51, Subchapter M) requires that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector prior to any demolition activities. LDEQ requires written notification (Form AAC-2) a minimum of 10-working days prior to any demolition activity, regardless of whether the building contains asbestos.

A summary of the classification, condition and approximate quantity of identified ACM are presented in Appendix B. Laboratory analytical reports are included in Appendix C.

## 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. 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 the Louisiana Department of Transportation and Development for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, expressed or implied is made.





**APPENDIX A**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**I-49 Connector (Lafayette)**  
**SPN: H.003453, Parcel ADV-57, House**  
**Lafayette, Lafayette Parish, Louisiana**  
**Terracon Project No. EH167282**

HA	Sample No.	Description	Material Location
1	01-RF2-01	Black roofing below metal roof	Exterior
1	01-RF2-02	Black roofing below metal roof	Exterior
1	01-RF2-03	Black roofing below metal roof	Exterior
2	02-RF1-04	Roof penetration tar	Exterior
2	02-RF1-05	Roof penetration tar	Exterior
2	02-RF1-06	Roof penetration tar	Exterior
3	03-PM5-07	Tan Paper between exterior vinyl siding & wood siding	Exterior
3	03-PM5-08	Tan Paper between exterior vinyl siding & wood siding	Exterior
3	03-PM5-09	Tan Paper between exterior vinyl siding & wood siding	Exterior
4	04-PI5-10	Exterior pipe wrap	Exterior crawl space
4	04-PI5-11	Exterior pipe wrap	Exterior crawl space
4	04-PI5-12	Exterior pipe wrap	Exterior crawl space
5	05-CA1-13	White exterior window caulk	Exterior windows
5	05-CA1-14	White exterior window caulk -	Exterior windows
5	05-CA1-15	White exterior window caulk	Exterior windows
6	06-CT1-16	White 1' x 1' interlocking textured ceiling tile	Interior ceiling
6	06-CT1-17	White 1' x 1' interlocking textured ceiling tile	Interior ceiling
6	06-CT1-18	White 1' x 1' interlocking textured ceiling tile	Interior ceiling
7	07-PM5-19	Paper lining of duct boxes on HVAC	Interior above ceiling
7	07-PM5-20	Paper lining of duct boxes on HVAC	Interior above ceiling
7	07-PM5-21	Paper lining of duct boxes on HVAC	Interior above ceiling
8	08-PM5-22	Wall covering in closets	Interior closets
8	08-PM5-23	Wall covering in closets	Interior closets
8	08-PM5-24	Wall covering in closets	Interior closets
9	09-FT5-25	Tan 12" x 12" floor tile	HVAC closet
9	09-FT5-26	Tan 12" x 12" floor tile	HVAC closet
9	09-FT5-27	Tan 12" x 12" floor tile	HVAC closet
10	10-FC1-28	White/Tan double layer linoleum flooring	Wood subfloor of kitchen
10	10-FC1-29	White/Tan double layer linoleum flooring	Wood subfloor of kitchen
10	10-FC1-30	White/Tan double layer linoleum flooring	Wood subfloor of kitchen
11	11-FC1-31	Tan/black peel-n-stick wood pattern tile with subfloor and sheet flooring below	Bathroom
11	11-FC1-32	Tan/black peel-n-stick wood pattern tile with subfloor and sheet flooring below	Bathroom

HA	Sample No.	Description	Material Location
11	11-FC1-33	Tan/black peel-n-stick wood pattern tile with subfloor and sheet flooring below	Bathroom
12	12-FC1-34	Multiple flooring below wood pattern laminate	Bedroom and living room-wood sub floor
12	12-FC1-35	Multiple flooring below wood pattern laminate	Bedroom and living room-wood sub floor
12	12-FC1-36	Multiple flooring below wood pattern laminate	Bedroom and living room-wood sub floor
13	13-FT5-37	Multicolored 12" x 12" floor tile below carpet	Back rooms
13	13-FT5-38	Multicolored 12" x 12" floor tile below carpet	Back rooms
13	13-FT5-39	Multicolored 12" x 12" floor tile below carpet	Back rooms
14	14-SC6-40	Kitchen sink undercoating	Kitchen
14	14-SC6-41	Kitchen sink undercoating	Kitchen
14	14-SC6-42	Kitchen sink undercoating	Kitchen



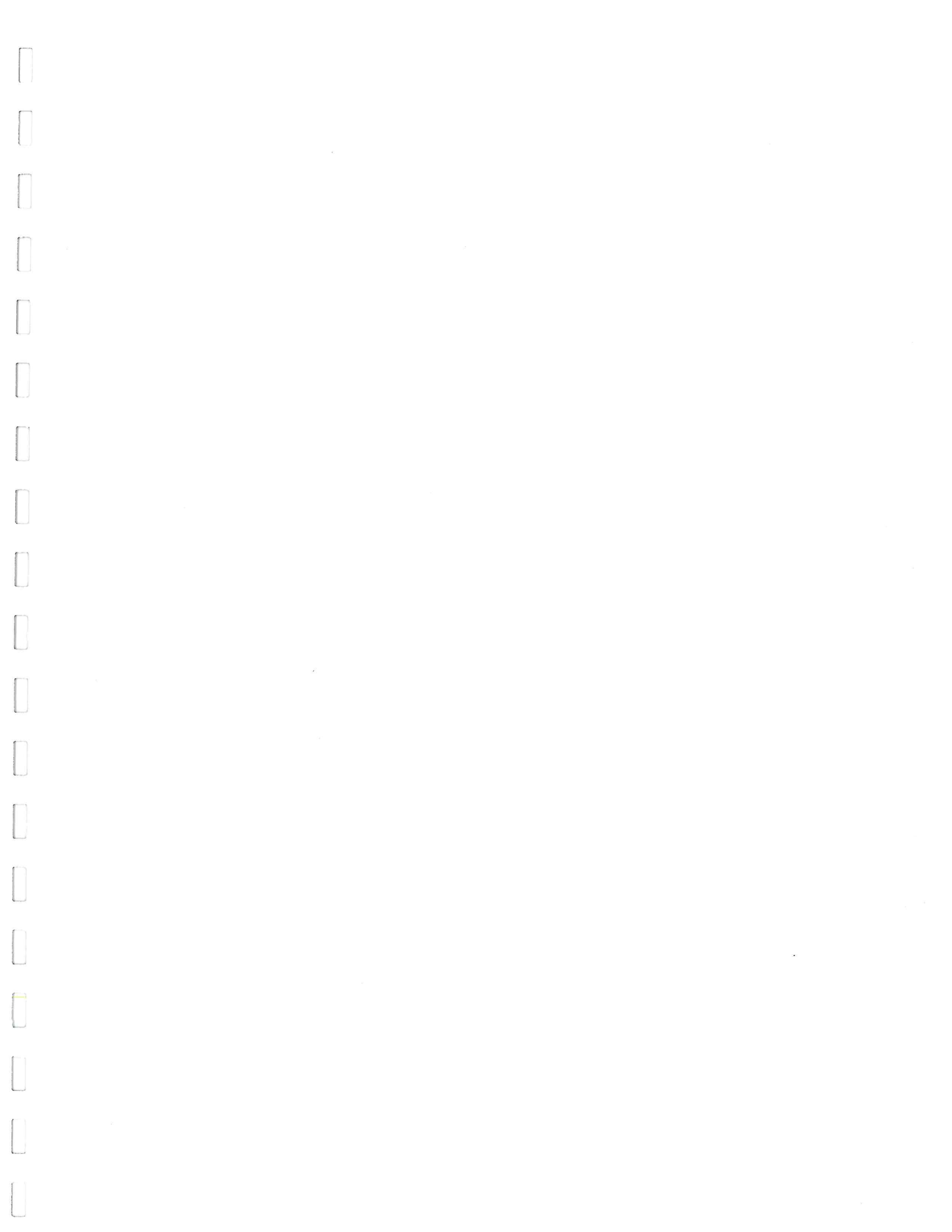


**APPENDIX B**

**CONFIRMED ASBESTOS CONTAINING MATERIAL  
I-49 Connector (Lafayette)  
SPN: H.003453, Parcel ADV-57, House  
Lafayette, Lafayette Parish, Louisiana  
Terracon Project No. EH167282**

HA No.	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
1	Black roofing	Exterior-roofing below metal roof	20%C	Category I non-friable ACM	Good	1500 ft <sup>2</sup>
2	Black tar	Exterior roof penetration tar	10%C	Category I non-friable ACM	Good	8 penetrations
9	Tan floor tile	HVAC closet	2%C	Category I non-friable ACM	Good	50 ft <sup>2</sup>
11	Dark brown Sheet vinyl associated with wood pattern tile	Restroom	25%C	Category I non-friable ACM	Good	80 ft <sup>2</sup>
11	Tan floor tile	Restroom	2%C	Category I non-friable ACM	Good	80 ft <sup>2</sup>
12	Brown sheet vinyl associated with flooring below wood pattern laminate	Bedroom and living room	25%C	Category I non-friable ACM	Good	600 ft <sup>2</sup>

\* Quantities are estimates only.  
ft<sup>2</sup> = square feet  
C = Chrysotile asbestos



**APPENDIX C**  
**ASBESTOS LABORATORY ANALYTICAL REPORTS**





2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 272630	Client: Terracon
Account Number: C036	2822 O'Neal Ln - B
	Baton Rouge, LA 70816
Date Received: 11/11/2016	
Received By: Karen Braley	
Date Analyzed: 11/16/2016	Project: DOTD 1-49 Connector
Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-RF2-01	Homogeneous	Black Roofing	Asbestos Present Chrysotile 20	NA	Tar
002	01-RF2-02	Homogeneous	Black Roofing	Asbestos Present Chrysotile 20	NA	Tar
003	01-RF2-03	Homogeneous	Black Roofing	Asbestos Present Chrysotile 20	NA	Tar
004	02-RF1-04	Layered	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
004a		Layered	Black Tar	Asbestos Present Chrysotile 10	NA	Tar
005	02-RF1-05	Layered	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
005a		Layered	Black Tar	Asbestos Present Chrysotile 10	NA	Tar

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



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Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
006	02-RF1-06	Layered	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
006a		Layered	Black Tar	Asbestos Present Chrysotile 10	NA	Tar
007	03-PM5-07	Homogeneous	Brown Paper	Asbestos Not Present	Cellulose 100	
008	03-PM5-08	Homogeneous	Brown Paper	Asbestos Not Present	Cellulose 100	
009	03-PM5-09	Homogeneous	Brown Paper	Asbestos Not Present	Cellulose 100	
010	04-PI5-10	Layered	Gray Pipe Wrap	Asbestos Not Present	Synthetic 40	Binder

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Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
010a		Layered	Black Insulation	Asbestos Not Present	NA	Foam
011	04-PI5-11	Layered	Gray Pipe Wrap	Asbestos Not Present	Synthetic 40	Binder
011a		Layered	Black Insulation	Asbestos Not Present	NA	Foam
012	04-PI5-12	Layered	Gray Pipe Wrap	Asbestos Not Present	Synthetic 40	Binder
012a		Layered	Black Insulation	Asbestos Not Present	NA	Foam
013	05-CA1-13	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
014	05-CA1-14	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder

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Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
015	05-CA1-15	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
016	06-CT1-16	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 90	Paint
017	06-CT1-17	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 90	Paint
018	06-CT1-18	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 90	Paint
019	07-PM5-19	Layered	Black Paper	Asbestos Not Present	Synthetic 60	Binder
019a		Layered	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	

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Quantem Lab No. 272630

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Date Received: 11/11/2016

Received By: Karen Braley

Date Analyzed: 11/16/2016

Analyzed By: Carter Cox

Methodology: EPA/600/R-93/116

Client: Terracon

2822 O'Neal Ln - B

Baton Rouge, LA 70816

Project: DOTD 1-49 Connector

Project Location: 205 2nd Street, Laffayette, LA 70501

Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
020	07-PM5-20	Layered	Black Paper	Asbestos Not Present	Synthetic 60	Binder
020a		Layered	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	
021	07-PM5-21	Layered	Black Paper	Asbestos Not Present	Synthetic 60	Binder
021a		Layered	Yellow Insulation	Asbestos Not Present	Glass Fiber 100	
022	08-PM5-22	Homogeneous	Brown Wall Paper	Asbestos Not Present	Cellulose 60 Synthetic 40	
023	08-PM5-23	Homogeneous	Brown Wall Paper	Asbestos Not Present	Cellulose 60 Synthetic 40	
024	08-PM5-24	Homogeneous	Brown Wall Paper	Asbestos Not Present	Cellulose 60 Synthetic 40	

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630	Client: Terracon
Account Number: C036	2822 O'Neal Ln - B
	Baton Rouge, LA 70816
Date Received: 11/11/2016	
Received By: Karen Braley	
Date Analyzed: 11/16/2016	Project: DOTD 1-49 Connector
Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
025	09-FT5-25	Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc 3	Vinyl CaCO3
025a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
026	09-FT5-26	Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc 3	Vinyl CaCO3
026a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
027	09-FT5-27	Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc 3	Vinyl CaCO3
027a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630	Client: Terracon
Account Number: C036	2822 O'Neal Ln - B
	Baton Rouge, LA 70816
Date Received: 11/11/2016	
Received By: Karen Braley	
Date Analyzed: 11/16/2016	Project: DOTD 1-49 Connector
Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
028	10-FC2-28	Layered	Beige Sheet Vinyl	Asbestos Not Present	NA	Vinyl Foam
028a		Layered	Tan Leveling Compound	Asbestos Not Present	NA	CaCO3
028b		Layered	Gold Sheet Vinyl	Asbestos Not Present	Cellulose 5 Glass Fiber 5 Synthetic 15	Vinyl CaCO3
028c		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
029	10-FC2-29	Layered	Beige Sheet Vinyl	Asbestos Not Present	NA	Vinyl Foam
029a		Layered	Tan Leveling Compound	Asbestos Not Present	NA	CaCO3

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630	Client: Terracon
Account Number: C036	2822 O'Neal Ln - B
	Baton Rouge, LA 70816
Date Received: 11/11/2016	
Received By: Karen Braley	
Date Analyzed: 11/16/2016	Project: DOTD 1-49 Connector
Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
029b		Layered	Gold Sheet Vinyl	Asbestos Not Present	Cellulose 5 Glass Fiber 5 Synthetic 15	Vinyl CaCO3
029c		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
030	10-FC2-30	Layered	Beige Sheet Vinyl	Asbestos Not Present	NA	Vinyl Foam
030a		Layered	Tan Leveling Compound	Asbestos Not Present	NA	CaCO3
030b		Layered	Gold Sheet Vinyl	Asbestos Not Present	Cellulose 5 Glass Fiber 5 Synthetic 15	Vinyl CaCO3
030c		Layered	Brown Mastic	Asbestos Not Present	NA	Glue

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630

Account Number: C036

Date Received: 11/11/2016

Received By: Karen Braley

Date Analyzed: 11/16/2016

Analyzed By: Carter Cox

Methodology: EPA/600/R-93/116

Client: Terracon

2822 O'Neal Ln - B

Baton Rouge, LA 70816

Project: DOTD 1-49 Connector

Project Location: 205 2nd Street, Laffayette, LA 70501

Project Number: EH167282 (Parcel, ADV-57-House

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
031	11-FC1-31	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
031a		Layered	Dark Brown Sheet Vinyl	Asbestos Present Chrysotile 25	Cellulose	5 Vinyl Binder
031b		Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc	3 Vinyl CaCO3
031c		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
032	11-FC1-32	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
032a		Layered	Dark Brown Sheet Vinyl	Asbestos Present Chrysotile 25	Cellulose	5 Vinyl Binder
032b		Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc	3 Vinyl CaCO3

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630

Account Number: C036

Date Received: 11/11/2016

Received By: Karen Braley

Date Analyzed: 11/16/2016

Analyzed By: Carter Cox

Methodology: EPA/600/R-93/116

Client: Terracon

2822 O'Neal Ln - B

Baton Rouge, LA 70816

Project: DOTD 1-49 Connector

Project Location: 205 2nd Street, Laffayette, LA 70501

Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
032c		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
033	11-FC1-33	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
033a		Layered	Dark Brown Sheet Vinyl	Asbestos Present Chrysotile 25	Cellulose	5 Vinyl Binder
033b		Layered	Tan Floor Tile	Asbestos Present Chrysotile 2	Talc	3 Vinyl CaCO3
033c		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
034	12-FC1-34	Layered	Brown Sheet Vinyl	Asbestos Not Present	Cellulose Glass Fiber	15 Vinyl 10 CaCO3

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Quantem Lab No. 272630	Client: Terracon
Account Number: C036	2822 O'Neal Ln - B
	Baton Rouge, LA 70816
Date Received: 11/11/2016	
Received By: Karen Braley	
Date Analyzed: 11/16/2016	Project: DOTD 1-49 Connector
Analyzed By: Carter Cox	Project Location: 205 2nd Street, Laffayette, LA 70501
Methodology: EPA/600/R-93/116	Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
034a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
034b		Layered	Gray Leveling Compound	Asbestos Not Present	Cellulose	5 CaCO3
034c		Layered	Dark Brown Sheet Vinyl	Asbestos Present Chrysotile 25	Cellulose	5 Vinyl Binder
035	12-FC1-35	Layered	Brown Sheet Vinyl	Asbestos Not Present	Cellulose Glass Fiber	15 Vinyl 10 CaCO3
035a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
035b		Layered	Gray Leveling Compound	Asbestos Not Present	Cellulose	5 CaCO3
036	12-FC1-36	Layered	Brown Sheet Vinyl	Asbestos Not Present	Cellulose Glass Fiber	15 Vinyl 10 CaCO3

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630

Account Number: C036

Date Received: 11/11/2016

Received By: Karen Braley

Date Analyzed: 11/16/2016

Analyzed By: Carter Cox

Methodology: EPA/600/R-93/116

Client: Terracon

2822 O'Neal Ln - B

Baton Rouge, LA 70816

Project: DOTD 1-49 Connector

Project Location: 205 2nd Street, Laffayette, LA 70501

Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
036a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
036b		Layered	Gray Leveling Compound	Asbestos Not Present	Cellulose	5 CaCO3
036c		Layered	Dark Brown Sheet Vinyl	Asbestos Present Chrysotile 25	Cellulose	5 Vinyl Binder
037	13-FT5-37	Layered	Tan Floor Tile	Asbestos Not Present	Talc	3 Vinyl CaCO3
037a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
038	13-FT5-38	Layered	Tan Floor Tile	Asbestos Not Present	Talc	3 Vinyl CaCO3

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### Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 272630

Client: Terracon

Account Number: C036

2822 O'Neal Ln - B  
Baton Rouge, LA 70816

Date Received: 11/11/2016

Received By: Karen Braley

Date Analyzed: 11/16/2016

Project: DOTD 1-49 Connector

Analyzed By: Carter Cox

Project Location: 205 2nd Street, Laffayette, LA 70501

Methodology: EPA/600/R-93/116

Project Number: EH167282 (Parcel, ADV-57-House)

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
038a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
039	13-FT5-39	Layered	Tan Floor Tile	Asbestos Not Present	Talc	3 Vinyl CaCO3
039a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
040	14-SC6-40	Homogeneous	White Sink Undercoat	Asbestos Not Present	Cellulose	20 CaCO3 Binder
041	14-SC6-41	Homogeneous	White Sink Undercoat	Asbestos Not Present	Cellulose	20 CaCO3 Binder
042	14-SC6-42	Homogeneous	White Sink Undercoat	Asbestos Not Present	Cellulose	20 CaCO3 Binder

*Carter Cox*

Carter W. Cox, Analyst

11/16/2016

Date of Report

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# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

## LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

<b>Contact Information</b> Company: Terracon - Baton Rouge Contact: Phillip Bellan Account #: C036 Name: Phillip Bellan		<b>Project Information</b> Project Name: DOTD I-49 Connector Project Location: 205 2nd Street, Lafayette, LA 70501 (Parcel ADV-57-House) Project ID: EH167282 PO Number: EH167282	
Phone: (225) 442-7019	Cell Phone: (225) 588-9066	E-mail: philip.bellan@terracon.com	Report Results (☑ one box)
Date: 11-10-16			<input type="checkbox"/> QuantEM Website <input checked="" type="checkbox"/> Email philip.bellan@terracon.com <input type="checkbox"/> Other

For Lab Use Only  
 Lab No. 272630  
 Accept  Reject

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
<i>[Signature]</i>	11-10-16/12:00	Fedex	<i>[Signature]</i>	11/16/16 10:00

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	PLM	TEM		TEM	TURNAROUND TIME
		Air- AHERA	Air- NIOSH 7402		
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Atmic Insulation (EPA 600/R-04/004)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1000 Point Count	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Gravimetric Preparation	<input type="checkbox"/> PCM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Particle ID	<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	01 - RF2 - 01	<input checked="" type="checkbox"/>	black	roofing below metal roof	1500 sq	exterior
2	01 - RF2 - 02	<input checked="" type="checkbox"/>	black			
3	01 - RF2 - 03	<input checked="" type="checkbox"/>	black			
4	02 - RF1 - 04	<input checked="" type="checkbox"/>	black/whit	roof penetration - tr	8 penetr	
5	02 - RF1 - 05	<input checked="" type="checkbox"/>				
6	02 - RF1 - 06	<input checked="" type="checkbox"/>				
7	03 - PMS - 07	<input checked="" type="checkbox"/>	tan	paper bllt exterior vinyl siding toward	2,000 sq	exterior
8	03 - PMS - 08	<input checked="" type="checkbox"/>		siding		
9	03 - PMS - 09	<input checked="" type="checkbox"/>				
10	04 - PIS - 10	<input checked="" type="checkbox"/>	black	exterior pipe wrap	800 ln	cond space - exterior

**SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE** • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"  
 Please Note - UPS and USPS are NOT available for Saturday Delivery \*\*\* Please Composite all joint compound with associated drywall if results are above 1% \*\*\* Please In-clude info for Location Column on Excel Spread sheet sent as Terracon Deliverable





# ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

For Lab Use Only
Lab No. <u>272630</u>
Accept <input type="checkbox"/> Reject <input type="checkbox"/>

Project Information		Company: Terracon - Baton Rouge	Project Name: DOTD I-49 Connector	Project Location: 205 2nd Street, Lafayette, LA 70501 (Parcel ADV-57-House)		
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	04 - PIS - 11	<input checked="" type="checkbox"/>	black	exterior ppc wrap	800 ln	crawl space - exterior
12	04 - PIS - 12	<input checked="" type="checkbox"/>	white	exterior window caulk	250 ln	exterior windows
13	05 - CA1 - 13	<input checked="" type="checkbox"/>	white	interlocking ceiling tile	1500 sq	interior ceilings
14	05 - CA1 - 14	<input checked="" type="checkbox"/>	white	interlocking ceiling tile		interior ceilings
15	05 - CA1 - 15	<input checked="" type="checkbox"/>	white	interlocking ceiling tile		interior ceilings
16	06 - CT1 - 16	<input checked="" type="checkbox"/>	white	interlocking ceiling tile		interior ceilings
17	06 - CT1 - 17	<input checked="" type="checkbox"/>	white	interlocking ceiling tile		interior ceilings
18	06 - CT1 - 18	<input checked="" type="checkbox"/>	white	interlocking ceiling tile		interior ceilings
19	07 - PMS - 19	<input checked="" type="checkbox"/>	black	paper lining of duct boxes on HVAC	8 boxes	interior above ceiling
20	07 - PMS - 20	<input checked="" type="checkbox"/>	black	paper lining of duct boxes on HVAC	8 boxes	interior above ceiling
21	07 - PMS - 21	<input checked="" type="checkbox"/>	black	paper lining of duct boxes on HVAC	8 boxes	interior above ceiling
22	08 - PMS - 22	<input checked="" type="checkbox"/>	tan	wall casing in closets	300 sq	interior closets
23	08 - PMS - 23	<input checked="" type="checkbox"/>	tan	wall casing in closets	300 sq	interior closets
24	08 - PMS - 24	<input checked="" type="checkbox"/>	tan	wall casing in closets	300 sq	interior closets
25	09 - FTS - 25	<input checked="" type="checkbox"/>	tan	12" x 12" floor tile	50 sq	HVAC closet
26	09 - FTS - 26	<input checked="" type="checkbox"/>	tan	12" x 12" floor tile	50 sq	HVAC closet
27	09 - FTS - 27	<input checked="" type="checkbox"/>	tan	12" x 12" floor tile	50 sq	HVAC closet
28	10 - FCL - 28	<input checked="" type="checkbox"/>	white/tan	double layer linoleum flooring	175 sq	kitchen - road sub floor
29	10 - FCL - 29	<input checked="" type="checkbox"/>	white/tan	double layer linoleum flooring	175 sq	kitchen - road sub floor
30	10 - FCL - 30	<input checked="" type="checkbox"/>	white/tan	double layer linoleum flooring	175 sq	kitchen - road sub floor





# ASBESTOS CHAIN OF CUSTODY

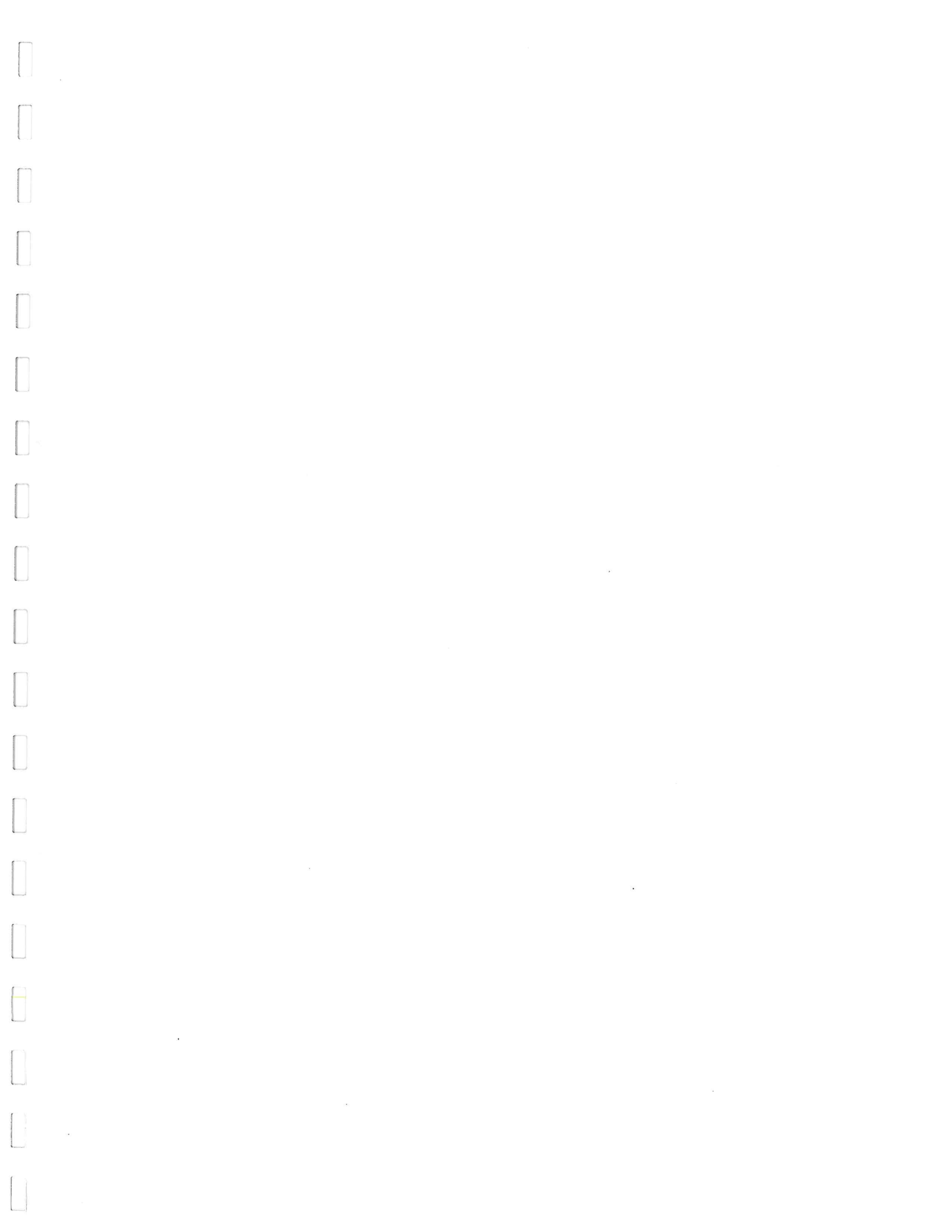
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

For Lab Use Only
Lab No. <u>272630</u>
Accept <input type="checkbox"/> Reject <input type="checkbox"/>

Project Information		Project Name: DOTD I-49 Connector	Project Location: 205 2nd Street, Lafayette, LA 70501 (Parcel ADV-57-House)			
No.	Sample ID (10 Characters Max)	To Be Analyzed <input checked="" type="checkbox"/>	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	FC1-31	<input checked="" type="checkbox"/>	tan/black	peel-n-stick weed patte	80 sq'	restroom - wood sub floor rd
32	FC1-32	<input checked="" type="checkbox"/>	I	tile - w/subfloor below	I	I
33	FC1-33	<input checked="" type="checkbox"/>	I	I	I	I
34	FC1-34	<input checked="" type="checkbox"/>	multi	multiple flooring below wood patte	600 sq'	bedroom + living room - wood sub floor
35	FC1-35	<input checked="" type="checkbox"/>	I	I	I	I
36	FC1-36	<input checked="" type="checkbox"/>	I	I	I	I
37	FTS-37	<input checked="" type="checkbox"/>	multi	12" x 12" floor tile below carpet	600 sq'	back rooms
38	FTS-38	<input checked="" type="checkbox"/>	I	I	I	I
39	FTS-39	<input checked="" type="checkbox"/>	I	I	I	I
40	SC6-40	<input checked="" type="checkbox"/>	white	withe sink underneath	15 sq'	kitchen
41	SC6-41	<input checked="" type="checkbox"/>	I	I	I	I
42	SC6-42	<input checked="" type="checkbox"/>	I	I	I	I
43	-	<input type="checkbox"/>				
44	-	<input type="checkbox"/>				
45	-	<input type="checkbox"/>				
46	-	<input type="checkbox"/>				
47	-	<input type="checkbox"/>				
48	-	<input type="checkbox"/>				
49	-	<input type="checkbox"/>				
50	-	<input type="checkbox"/>				

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 Please Note - UPS and USPS are NOT available for Saturday Delivery \*\*\* Please Composite all joint compound with associated dry-wall if results are above 1% \*\*\*



**APPENDIX D**  
**CERTIFICATIONS**



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

***Phillip Bellan***

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**ASBESTOS INSPECTOR**

Accreditation No. 71187169

Date of Issuance 6/23/2016

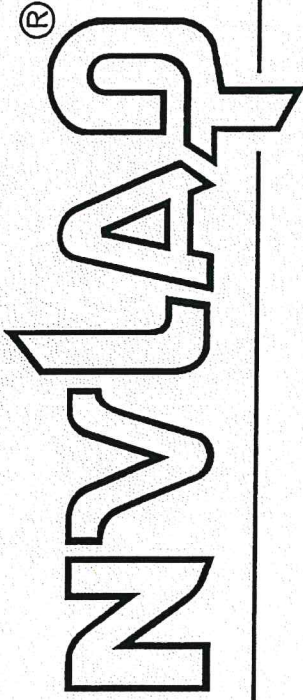
Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.

AI No. 187169

Expiration 8/5/2017

*Christopher Mayeux*  
Permit Support Services Division  
Office of Environmental Services

United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 101959-0

**QuanTEM Laboratories, LLC**  
Oklahoma City, OK

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

## **Asbestos Fiber Analysis**

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

---

2015-10-01 through 2016-09-30

Effective Dates



A handwritten signature in black ink, which appears to read "Alan P. Murphy".

For the National Voluntary Laboratory Accreditation Program





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

**QuanTEM Laboratories, LLC**

2033 Heritage Park Drive

Oklahoma City, OK 73120-7579

Mr. John E. Barnett

Phone: 405-755-7272 Fax: 405-755-2058

Email: [jbarnett@quantem.com](mailto:jbarnett@quantem.com)

<http://www.quantem.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101959-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

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

A handwritten signature in black ink, appearing to read "John E. Barnett".

For the National Voluntary Laboratory Accreditation Program



**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**



Is hereby granting a Louisiana Environmental Laboratory Accreditation to

**QuanTEM Laboratories LLC  
2033 Heritage Park Dr  
Oklahoma City, Oklahoma 73120**

**Agency Interest No. 127594**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:1.4711.

Lourdes Iturralde, Administrator  
Notifications and Accreditations Section  
Public Participation & Permit Support Services Division

**Certificate Number: 04118**

**Expiration Date: June 30, 2016  
Issued On: July 1, 2015**





STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
Issue Date: July 1, 2015

QuanTEM Laboratories LLC  
AI Number: 127594  
Expiration Date: June 30, 2016

2033 Heritage Park Dr, Oklahoma City, Oklahoma 73120

Certificate Number: 04118

### Air Emissions

Analyte	Method Name	Method Code	Type	AB
1520 - Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100230 - Lead in Airborne Dust	NIOSH 7082, Rev.2	90012230	AIHA	LA

### Non Potable Water

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

### Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	EPA 600/M4-82-020 (PLM)	1488	NVLAP	LA
100030 - Asbestos in Friable Material	EPA 600/M4-82-020 (PLM)	1488	NVLAP	LA
100232 - Lead in Wipes	NIOSH 9100	2454	AIHA	LA
100231 - Lead in Paint	EPA 7420	10164406	AIHA	LA
100233 - Lead in Soil	EPA 7420	10164406	AIHA	LA
100095 - Asbestos in Bulk Insulation	EPA 600/R-93/116	10294583	NVLAP	LA

### Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE



**APPENDIX E**  
**PHOTOGRAPHS**

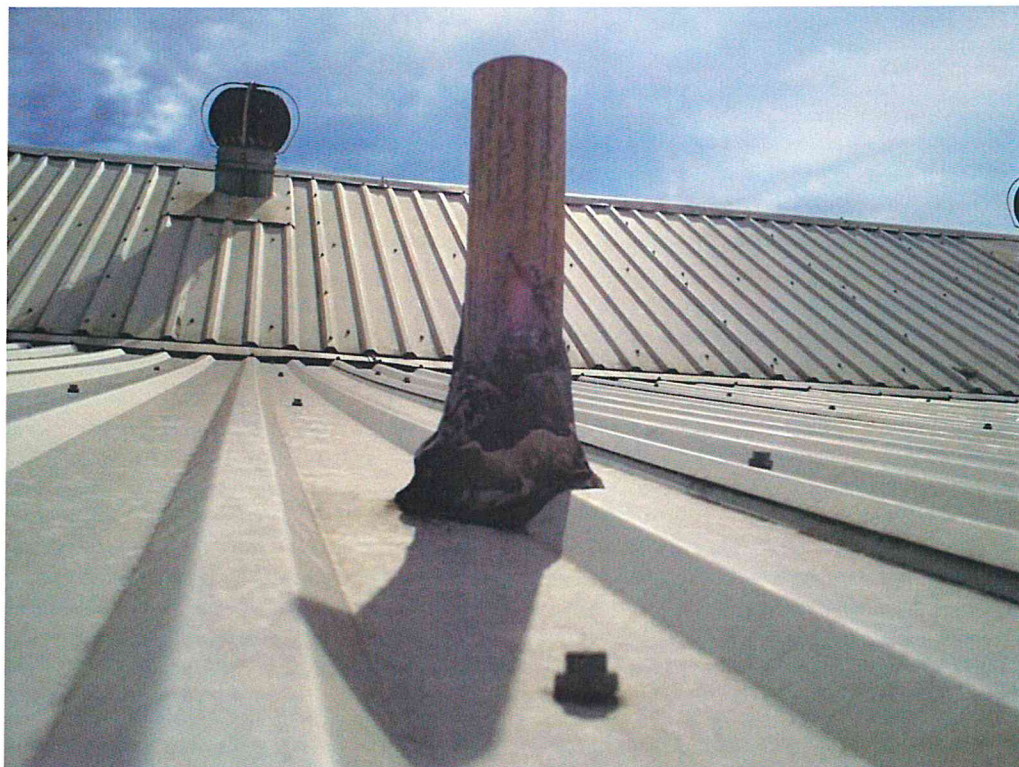


**Photo 1** View of structure.



**Photo 2** View of HA-1: ACM black roofing beneath metal roofing.





**Photo 3** View of HA-2: ACM black roof penetration tar.



**Photo 4** View of HA-3: Non-ACM paper between exterior vinyl siding and wood siding.



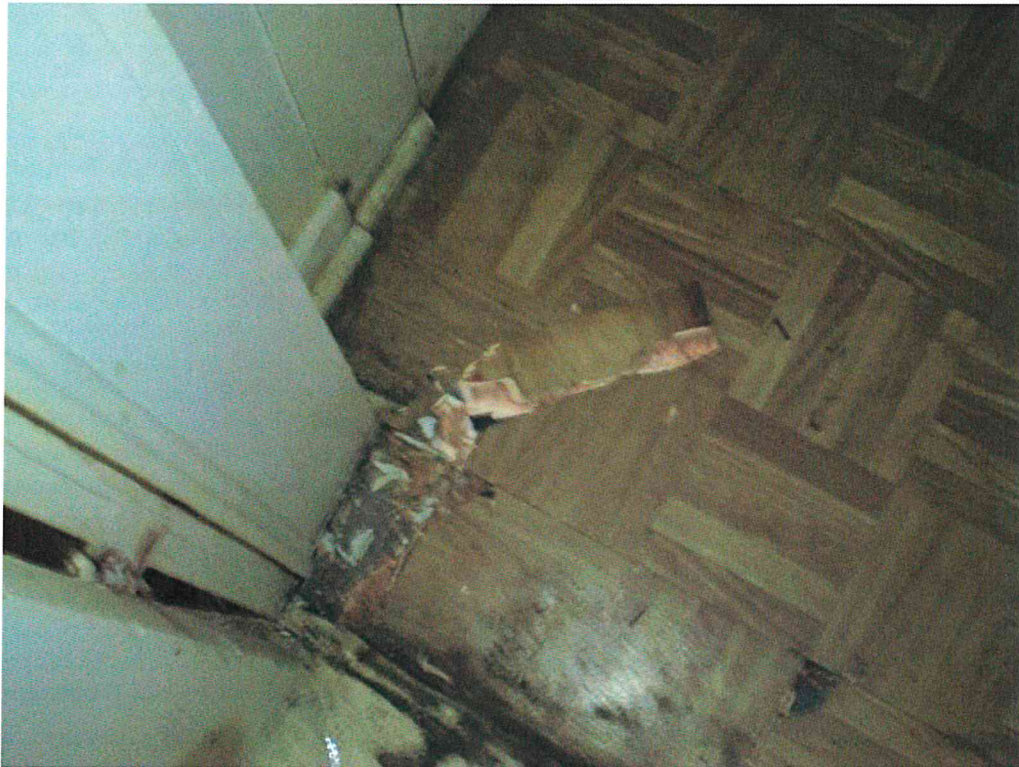


**Photo 5** View of HA-5: Non-ACM interlocking textured ceiling tile.

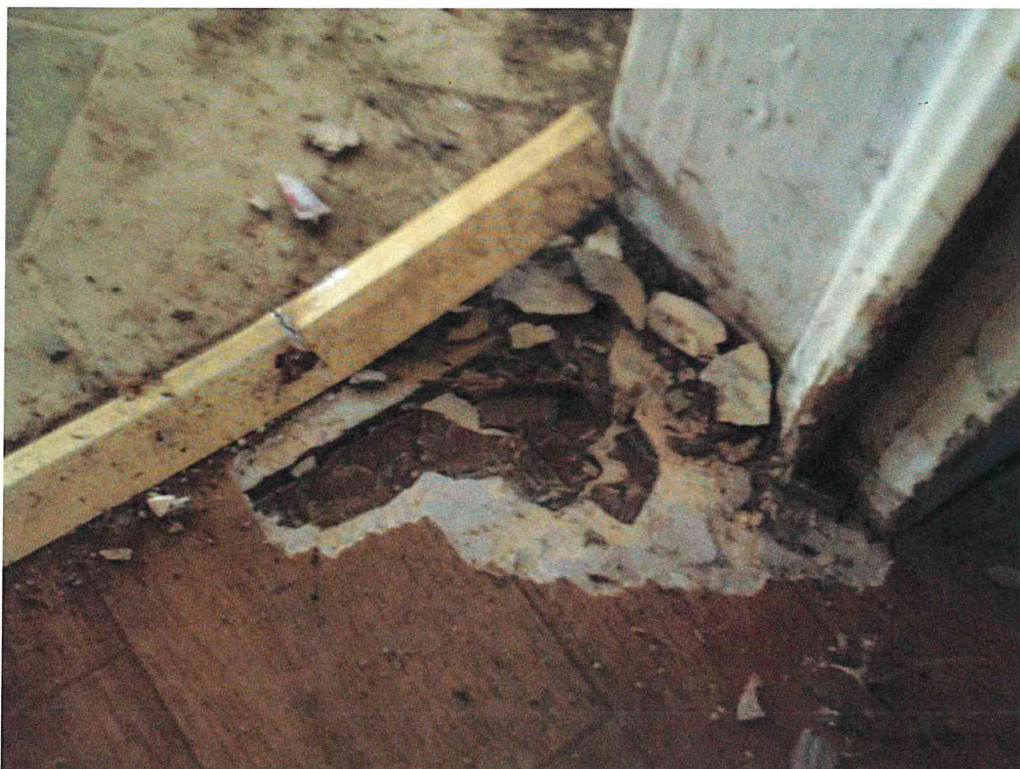


**Photo 6** View of HA-9: ACM 12"x12" floor tile with non ACM yellow mastic in HVAC closet.





**Photo 7** View of HA-11: Multiple flooring with ACM sheet vinyl.



**Photo 8** View of HA-12: Multiple flooring with ACM sheet vinyl.