

# Asbestos Survey Report

H.013842 – Causeway Blvd. – Earhart Expressway]  
1704 S. Causeway Boulevard  
Metairie, Louisiana 70001

July 2, 2021  
Terracon Project No. ET217145



**Prepared for:**  
Louisiana Department of Transportation  
Baton Rouge, Louisiana

**Prepared by:**  
Terracon Consultants, Inc.  
New Orleans, Louisiana

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

**Terracon**

Environmental



Facilities



Geotechnical



Materials

July 2, 2021



Louisiana Department of Transportation (LADOT)  
P.O. Box 94245  
Baton Rouge, Louisiana 70804

Attn: Ms. Radha Kumar (DOTD Program Specialist)  
P: 225.242.4554  
E: [Radha.Kumar@la.gov](mailto:Radha.Kumar@la.gov)

**Re: Asbestos Survey Report**  
H.013842 – Causeway Blvd. – Earhart Expressway  
1704 S. Causeway Boulevard  
Metairie, Louisiana 70001  
Terracon Project No. ET217145

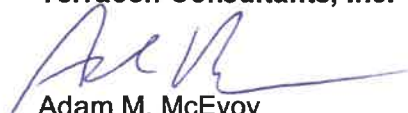
Dear Ms. Kumar:


The purpose of this report is to present the results of the services performed at the residential structure located at 1704 S. Causeway Boulevard in Metairie, Louisiana. The scope of work included an asbestos survey. These services were conducted in general accordance with our Right of Way Consultant Task Order Assignment dated June 11, 2021, and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020. Terracon understands that this survey was requested due to the planned demolition of the structure.

Asbestos-containing materials (ACM) were not identified at the subject site. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (504) 818-3638.

Sincerely,  
**Terracon Consultants, Inc.**

  
Adam M. McEvoy  
Assistant Project Manager

  
Zack L. Dial, P.E.  
Office Manager

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**ASBESTOS SURVEY REPORT**  
**H.0138472 – Causeway Blvd. – Earhart Expressway**  
**1704 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**  
**July 2, 2021**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the above referenced structure located at 1704 Causeway Boulevard in Metairie, Louisiana. The survey was conducted by Terracon's Louisiana Department of Environmental Quality (LDEQ) accredited asbestos inspector. The scope of Terracon's survey included an asbestos survey. All work was conducted in accordance with our Right of Way Consultant Task Order Assignment dated June 11, 2021, and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020.

### **1.1 Project Objective**

The scope of services included a survey for asbestos-containing materials (ACM) in compliance with the United States Environmental Protection Agency (USEPA) 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 (Chapter 51), which prohibit the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Chapter 51 require that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances during demolition or renovation activities.

## **2.0 BUILDING DESCRIPTION**

The subject structure consists of an approximately 1,100-square-foot, one-story, concrete foundation building with wooden frame and stucco veneer and a shingle roof. Interior finishes largely consisted of gypsum board walls and ceilings with wood or sheet vinyl flooring.

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### 3.0 FIELD ACTIVITIES

The asbestos survey was conducted by LDEQ accredited asbestos inspector Adam McEvoy (AI#: 201568). 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 proposed for renovation/demolition 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. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Terracon could not assess all void spaces within walls and ceilings or beneath all floor coverings. Therefore, there may be isolated areas of additional suspect material present in the structure.

#### 3.2 Physical Assessment

A physical assessment of each homogeneous area (HA) 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 that 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. The inspector 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.

Twenty-eight bulk samples were collected from eight homogeneous areas of suspect ACM from the structure. A summary of suspected ACM materials collected during the survey is included as Appendix A. Selective photographs of HAs are presented in Appendix C.

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### 3.4 Sample Analysis

Bulk samples were submitted under chain-of-custody to Eurofins EMLab P&K of Houston, Texas (NVLAP Accreditation No 600122-0, LELAP Accreditation No 05087) for analysis by polarized light microscopy with dispersion staining techniques per EPA methods (40 CFR 763, Subpart E). The asbestos content, where applicable, was determined by microscopic visual estimation. The laboratory analytical report is included in Appendix B.

## 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.

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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.

The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. LDEQ requires a notification by submitting either an AAC-2 (a) form or AAC-2 (b) form. An AAC 2 (a) form is required when requesting Asbestos Disposal Verification Forms (ADVF) for Asbestos Contaminated Debris Activities (ACDA), Demolition, Renovation, and/or Response Action projects where Regulated Asbestos Containing Material (RACM) is present, or assumed to be present, above the established thresholds or as otherwise required by LAC 33:III.5151.F.1. The AAC-2 (a) form must be either postmarked or hand delivered to the Department at least 10 working days prior to the scheduled dates of asbestos removal. An AAC 2 (b) form is required when greater than 64 square feet of Vinyl Asbestos Tile (VAT) is removed without the intent of making it RACM, or when lab analysis of properly sampled materials indicates that no ACM is present; that ACM present is not RACM and will not be made RACM by the demolition; or that all RACM present is less than established thresholds. The established thresholds per LAC 33:III.5151.F.1 include the combined amount of RACM less than 60 linear feet on pipes, 64 square feet on other facility components or 27 cubic feet of material where length or area could not be measured previously. A Form AAC-2 (b) must be postmarked or hand delivered to the Department at least 5 working days prior to the scheduled date of asbestos removal or 3 working days if the removal only includes resilient floor covering per LAC 33:III.5151.F.2.c.

Any individual or company contracted to perform a demolition or renovation activity that disturbs RACM above established regulatory thresholds 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 that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work. The standard also specifies requirements for handling materials containing asbestos in concentrations less than or equal to 1%.



## Asbestos Survey Report

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## 5.0 FINDINGS & RECOMMENDATIONS

Asbestos was not detected in the samples collected and analyzed as part of our sampling at this site.

The Louisiana Air Quality Regulations (LAC 33:II Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. The results of this survey did not identify any asbestos-containing materials, however, LDEQ requires written notification (AAC-2b) prior to any demolition activity, regardless of whether the building contains asbestos.

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 that were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

A summary of each material sampled and analyzed is presented in Appendix A. Laboratory analytical reports are presented in Appendix B. Room ID designations, and sample locations are presented in Appendix D.

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



**APPENDIX A  
ASBESTOS SURVEY SAMPLE SUMMARY**

**TABLE 1.0**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**H.0138472 – Causeway Blvd. – Earhart Expressway**  
**1704 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
01	White Popcorn Ceiling Texture	Throughout	Good	01-01	None Detected
				01-02	None Detected
				01-03	None Detected
				01-04	None Detected
				01-05	None Detected
02	White Wall Texture	Throughout	Good	02-06	None Detected
				02-07	None Detected
				02-08	None Detected
				02-09	None Detected
				02-10	None Detected
03	White Wallboard with Joint Compound	Throughout	Good	03-11	None Detected
				03-12	None Detected
				03-13	None Detected
04	Beige and Brown 12"x12" Pattern Sheet Flooring	Kitchen	Good	04-14	None Detected
				04-15	None Detected
				04-16	None Detected
05	Brown Faux Wood Sheet Flooring	Living Room	Good	05-17	None Detected
				05-18	None Detected
				05-19	None Detected
06	Reddish Brown Faux Wood Sheet Flooring	Bathrooms and Utility Room	Good	06-20	None Detected
				06-21	None Detected
				06-22	None Detected

**TABLE 2.0  
ASBESTOS SURVEY SAMPLE SUMMARY**

Site Name  
Address  
City, State

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
07	Brown Stucco with Gray Backing on top of White Stucco with Black Tar Paper Vapor Barrier or White Vapor Barrier	Roof	Good	07-23	None Detected
				07-24	None Detected
				07-25	None Detected
08	Black Roof Shingles with Black Tar Paper	Exterior Walls	Good	08-26	None Detected
				08-27	None Detected
				08-28	None Detected

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORTS**

Report for:

**Adam McEvoy**  
**Terracon - New Orleans**  
524 Elmwood Park Blvd Ste 170  
New Orleans, LA 70123

---

Regarding: Project: ET217145; H.013842 - 1704 Causeway Blvd.  
EML ID: 2674029

Approved by:

Dates of Analysis:  
Asbestos PLM: 06-30-2021



Approved Signatory  
Gregorio Delgado

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 600122-0

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon - New Orleans  
C/O: Adam McEvoy  
Re: ET217145; H.013842 - 1704 Causeway Blvd.Date of Sampling: 06-29-2021  
Date of Receipt: 06-30-2021  
Date of Report: 07-01-2021**ASBESTOS PLM REPORT****Total Samples Submitted:** 28**Total Samples Analyzed:** 28**Total Samples with Layer Asbestos Content > 1%:** 0**Location: 01-01, White Popcorn Ceiling Texture**

Lab ID-Version‡: 12784093-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 01-02, White Popcorn Ceiling Texture**

Lab ID-Version‡: 12784094-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 01-03, White Popcorn Ceiling Texture**

Lab ID-Version‡: 12784095-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 01-04, White Popcorn Ceiling Texture**

Lab ID-Version‡: 12784096-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon - New Orleans  
 C/O: Adam McEvoy  
 Re: ET217145; H.013842 - 1704 Causeway Blvd.

Date of Sampling: 06-29-2021  
 Date of Receipt: 06-30-2021  
 Date of Report: 07-01-2021

**ASBESTOS PLM REPORT****Location: 01-05, White Popcorn Ceiling Texture**

Lab ID-Version‡: 12784097-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 02-06, White Wall Texture**

Lab ID-Version‡: 12784098-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Peach Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 02-07, White Wall Texture**

Lab ID-Version‡: 12784099-1

Sample Layers	Asbestos Content
Cream Tape	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 02-08, White Wall Texture**

Lab ID-Version‡: 12784100-1

Sample Layers	Asbestos Content
White Texture with Gray Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

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C/O: Adam McEvoy  
Re: ET217145; H.013842 - 1704 Causeway Blvd.Date of Sampling: 06-29-2021  
Date of Receipt: 06-30-2021  
Date of Report: 07-01-2021**ASBESTOS PLM REPORT****Location: 02-09, White Wall Texture**

Lab ID-Version‡: 12784101-1

Sample Layers	Asbestos Content
White Texture with Off-White Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 02-10, White Wall Texture**

Lab ID-Version‡: 12784102-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Peach Paint	ND
<b>Composite Non-Asbestos Content:</b> 15% Cellulose	
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 03-11, White Wallboard / Joint Compound**

Lab ID-Version‡: 12784103-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
<b>Composite Non-Asbestos Content:</b> 15% Cellulose 2% Glass Fibers	
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 03-12, White Wallboard / Joint Compound**

Lab ID-Version‡: 12784104-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
<b>Composite Non-Asbestos Content:</b> 15% Cellulose 2% Glass Fibers	
<b>Sample Composite Homogeneity:</b> Poor	

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 C/O: Adam McEvoy  
 Re: ET217145; H.013842 - 1704 Causeway Blvd.

Date of Sampling: 06-29-2021  
 Date of Receipt: 06-30-2021  
 Date of Report: 07-01-2021

**ASBESTOS PLM REPORT****Location: 03-13, White Wallboard / Joint Compound**

Lab ID-Version‡: 12784105-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose 2% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 04-14, Beige and Brown 12" x 12" Pattern Sheet Flooring**

Lab ID-Version‡: 12784106-1

Sample Layers	Asbestos Content
Beige Sheet Flooring	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 04-15, Beige and Brown 12" x 12" Pattern Sheet Flooring**

Lab ID-Version‡: 12784107-1

Sample Layers	Asbestos Content
Beige Sheet Flooring	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 04-16, Beige and Brown 12" x 12" Pattern Sheet Flooring**

Lab ID-Version‡: 12784108-1

Sample Layers	Asbestos Content
Beige Sheet Flooring	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

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C/O: Adam McEvoy  
Re: ET217145; H.013842 - 1704 Causeway Blvd.

Date of Sampling: 06-29-2021  
Date of Receipt: 06-30-2021  
Date of Report: 07-01-2021

**ASBESTOS PLM REPORT**

**Location: 05-17, Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784109-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 05-18, Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784110-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 05-19, Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784111-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 06-20, Reddish Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784112-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

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**ASBESTOS PLM REPORT****Location: 06-21, Reddish Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784113-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 06-22, Reddish Brown Faux Wood Sheet Flooring**

Lab ID-Version‡: 12784114-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 07-23, Brown Stucco with Gray Backing on Top of White Stucco with Black Tar Paper Vapor Barrier or White Vapor Barrier**

Lab ID-Version‡: 12784115-1

Sample Layers	Asbestos Content
Light Brown Stucco	ND
Gray Cementitious Material with White Mesh	ND
White Stucco	ND
Black Vapor Barrier	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 07-24, Brown Stucco with Gray Backing on Top of White Stucco with Black Tar Paper Vapor Barrier or White Vapor Barrier**

Lab ID-Version‡: 12784116-1

Sample Layers	Asbestos Content
Light Brown Stucco	ND
Gray Cementitious Material with White Mesh	ND
White Stucco	ND
White Vapor Barrier	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b> Poor	

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon - New Orleans  
C/O: Adam McEvoy  
Re: ET217145; H.013842 - 1704 Causeway Blvd.Date of Sampling: 06-29-2021  
Date of Receipt: 06-30-2021  
Date of Report: 07-01-2021**ASBESTOS PLM REPORT****Location: 07-25, Brown Stucco with Gray Backing on Top of White Stucco with Black Tar Paper Vapor Barrier or White Vapor Barrier**

Lab ID-Version‡: 12784117-1

Sample Layers	Asbestos Content
Light Brown Stucco	ND
Gray Cementitious Material with White Mesh	ND
White Stucco	ND
White Vapor Barrier	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 08-26, Black Roof Shingles With Black Tar Paper**

Lab ID-Version‡: 12784118-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Red/Brown Pebbles	ND
Black Roofing Shingle with Red/Brown Pebbles	ND
Black Roofing Shingle with Green/Off-White Pebbles	ND
Black Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 08-27, Black Roof Shingles With Black Tar Paper**

Lab ID-Version‡: 12784119-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Red/Brown Pebbles	ND
Black Roofing Shingle with Green/Off-White Pebbles	ND
Black Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon - New Orleans  
C/O: Adam McEvoy  
Re: ET217145; H.013842 - 1704 Causeway Blvd.

Date of Sampling: 06-29-2021  
Date of Receipt: 06-30-2021  
Date of Report: 07-01-2021

**ASBESTOS PLM REPORT**

**Location: 08-28, Black Roof Shingles With Black Tar Paper**

Lab ID-Version‡: 12784120-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Red/Brown Pebbles	ND
Black Roofing Shingle with Green/Off-White Pebbles	ND
Black Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 \* (800) 871-1984  
 Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 \* (800) 651-4802  
 SSP, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 \* (866) 888-6653

<b>A</b>		 002674029										
<b>REQ1</b>												
PCM Air	Bulk			Rock & Soil	Other Requests							
Fiber Count (NIOSH 7400)	OSHA with TWA	Asbestos Bulk PLM	EPA Point Count (200 Point Count)	EPA Point Count (400 Point Count)	EPA Point Count (1000 Point Count)	Gravimetric Point Count (400 Pt Count)	Gravimetric Point Count (1000 Pt Count)	CARB 435 Method (400 Point Count)	CARB 435 Method (1000 Point Count)	Lead Analysis - Flame AA		
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CONTACT INFORMATION					
Company:	Terracon Consultants		Address: 524 Elmwood Park Blvd., Ste. 170, New Orleans, LA 70123		
Contact:	Adam McEvoy		Special Instructions:		
Phone:	504.919.1103		email results to: adam.mcevoy@terracon.com		
PROJECT INFORMATION			TURN AROUND TIME CODES (TAT)		
Project ID:	ET217145		STD - Standard (DEFAULT)		Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.
Project Description:	H.013842 - 1704 Causeway Blvd.		ND - Next Business Day		
Project Zip Code:	70001	Sampling Date & Time:	6/29/21		
PO Number:	ET217145	Sampled By:	Adam McEvoy		
			*Please call Client Services for locations with Rush services		
Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
	Please See Attached	B	ND		28 Samples

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A - Air	W - Wipe		6/29/21 15:00		6/30/21 (005)
B - Bulk	T - Tape				
D - Dust	R - Rock				
SO - Soil	O - Other				



Lab Location:

New Orleans: 524 Elmwood Park Blvd., Ste. 170, New Orleans, LA 70123 (504) 818 3638

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition <sup>1</sup>
01-01	Living Room	White Popcorn Ceiling Texture ↓	Throughout	1100 SF	G D SD
01-02	Bed 1				
01-03	Kitchen				
01-04	Bed 2				
01-05	Utility Room				
02-06	Bed 1	White Wall Texture ↓	Throughout	<del>1000 SF</del> 3,500 SF	G D SD
02-07	Kitchen				
02-08	Bed 2				
02-09	Bed 3				
02-10	Living Room				
03-11	Kitchen	White Wallboard/Joint Compound	Throughout		G D SD
03-12	Bed 2				
03-13	Bed 3				
04-14	Kitchen	Beige & Brown 12" x 12" Pattern Sheet Flooring	Kitchen	250 SF	G D SD
04-15					
04-16	↓ Living Room	Brown Faux Wood Sheet Flooring	Living Room	165 SF	G D SD
05-17	<del>Bed 1</del>				
05-18	<del>Bed 2</del>				
05-19	<del>Bed 3</del>				

Lab Location:

New Orleans: 524 Elmwood Park Blvd., Ste. 170, New Orleans, LA 70123 (504) 818 3638

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition <sup>1</sup>
06-20	Utility Room	Reddish Brown Faux Wood	Whitington + Bathrooms	120sf	G D SD
06-21	Bath 1	Sheet Flooring			
06-22	Bath 2				
07-23A	Entr.	Brown Stucco w/ Gray Backing			G D SD
07-24A	↓	On top of white Stucco w/ Black			
07-25A	↓	Tar paper Vapor Barrier w/ White Vapor Barrier			
08-26	Roof	Black Roof Shingles w/ Black			G D SD
08-27	↓	Tar Paper			
08-28	↓				G D SD
					G D SD
					G D SD
					G D SD
					G D SD

**APPENDIX C**  
**PHOTOGRAPH LOG**



**Photograph No. 1**  
HA-01: White Popcorn Ceiling Texture



**Photograph No. 2**  
HA-02: White Wall Texture



**Photograph No. 3**  
HA-03: White Wallboard with Joint Compound



**Photograph No. 4**  
HA-04: Beige and Brown 12"x12" Pattern Sheet Flooring





**Photograph No. 5**

HA-05: Brown Faux Wood Sheetflooring



**Photograph No. 6**

HA-06: Reddish Brown Faux Wood Sheetflooring



**Photograph No. 7**

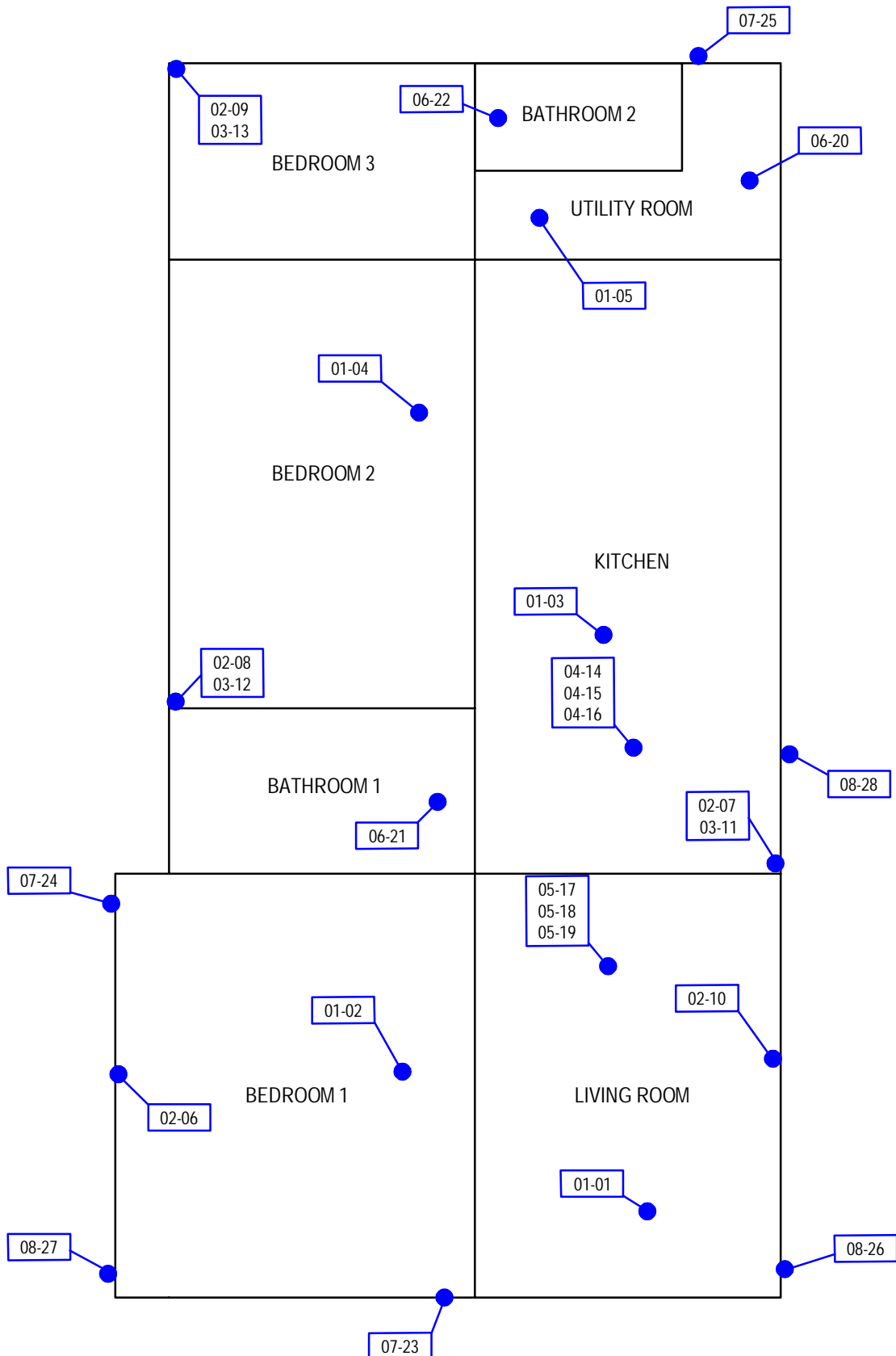
HA-07: Brown Stucco with Gray Backing on top of White Stucco with Black Tar Vapor Barrier or White Vapor Barrier



**Photograph No. 8**

HA-08: Black Roof Shingles with Black Tar Paper

**APPENDIX D**  
**EXHIBITS**



**LEGEND**

● ASBESTOS BULK SAMPLE LOCATIONS



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mng:	AMM	Project No.	ET217145
Drawn By:	AMM	Scale:	NOT TO SCALE
Checked By:	JMM	File No.	ET217145.DWG
Approved By:	JMM	Date:	JULY 2021

**Terracon**  
 Consulting Engineers and Scientists  
 524 ELMWOOD PARK BLVD NEW ORLEANS, LA 70123  
 (504) 818-3638 (504) 818-3890

<b>ASBESTOS BULK SAMPLE LOCATIONS</b>
ASBESTOS SURVEY H.013842 - CAUSEWAY BLVD - EARHART EXPRESSWAY 1704 S. CAUSEWAY BOULEVARD METAIRIE, LOUISIANA

EXHIBIT
1



**APPENDIX E**  
**CERTIFICATIONS**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Adam McEvoy*

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

**Asbestos Inspector**

**Accreditation No. J1201568**

**AI No. 201568**

**Date of Issuance January 5, 2021**

**Expiration January 31, 2022**

**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.**

  
\_\_\_\_\_  
Permit Support Services Division  
Office of Environmental Services

Permit Support Services Division  
Office of Environmental Services

**JOHN BEL EDWARDS**  
GOVERNOR



**CHUCK CARR BROWN, Ph.D.**  
SECRETARY

**State of Louisiana**  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL SERVICES

**Read Receipt Requested**

**AI No. 211116**  
**Activity No. ACC2020001**  
**LELAP Lab ID # 05087**  
**Accreditation Year FY 2021**  
**Renewal due FY 2022**

Mr. Dan Shelby  
Eurofins EMLab P&K Houston  
10900 Brittmoore Park Dr Ste G  
Houston, Texas 77041

Re: Annual Scope of Accreditation

Dear Mr. Shelby:

The Louisiana Department of Environmental Quality's laboratory accreditation program, in accordance with Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation, accredits this laboratory for Fiscal Year 2021. This accreditation does not constitute an endorsement of the suitability of the listed methods for any specific purpose. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. The laboratory is accredited for the methods as identified on the application for accreditation; if the methods are partially identified on the application for accreditation, the laboratory is accredited for the versions listed on the current application or referenced in the laboratory standard operating procedure.

Louisiana Environmental Laboratory Accreditation Program (LELAP) accreditation is granted for those methods/analytes for which "STATE" is indicated as the type of accreditation. Accreditation is dependent on the laboratory's successful ongoing compliance with regulations as outlined in the Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation.

The accreditation certificate is the property of the State of Louisiana. Should your accreditation be suspended or revoked, your laboratory must return the certificate of accreditation to the department and delete any electronic copies until your accreditation status is restored.

LAC 33:I.5313.A requires that the laboratory report include all relevant information. Therefore, the certificate number shall be placed in the upper right corner of all laboratory reports. If the test report includes results of any test for which the laboratory is not accredited, the unaccredited results must be clearly identified as such.

**We request that you examine the scope of accreditation attachment for accuracy and completeness.** If you find that an analyte for which you expected to be accredited is not listed, please examine your records to ensure that:

1. You have met the requirements for successful participation in proficiency test studies as outlined in LAC 33:I.4711.
2. In the case of accreditation by recognition, the requested analyte must be listed for the requested method and matrix on both the certificate issued by the Primary Accreditation Body *and* on the Louisiana application form.

If after reviewing this information, the scope and/or certificate are inaccurate, please notify us immediately.

If you have any questions, please contact your assigned assessor Jacob P. Byrd, Environmental Scientist at (225) 219-7585.

Sincerely,



Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

25 June 2020  
Date

CSN:PB:jpb



**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**



Is hereby granting a Louisiana Environmental Laboratory Accreditation to

**Eurofins EMLab P&K Houston  
10900 Brittmoore Park Dr Ste G  
Houston, Texas 77041**

**Agency Interest No. 211116  
Activity No. ACC20200001**

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. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. 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:I.4711.

Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

Issued Date: 25 June 2020

Effective Date: **July 1, 2020**  
Expiration Date: **June 30, 2021**  
Certificate Number: **05087**



STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2020

10900 Brittmoore Park Dr Ste G, Houston, Texas 77041

Certificate Number: 05087

Eurofins EMLab P&K Houston  
AI Number: 211116  
Activity No. ACC20200001  
Expiration Date: June 30, 2021

### Air Emissions

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

### 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
1520 - Asbestos	EPA 600/R-93/116	10294583	NVLAP	LA

### Biological Tissue

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

United States Department of Commerce  
National Institute of Standards and Technology



---

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

---

NVLAP LAB CODE: 600122-0

**Eurofins EMLab P&K**

Houston, TX

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

**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

---

2021-04-01 through 2022-03-31

*Effective Dates*



---

*Dana S. Gorman*  
For the National Voluntary Laboratory Accreditation Program



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

**Eurofins EMLab P&K**  
10900 Brittmoore Park Drive  
Suite G  
Houston, TX 77041  
Urooj Sagheer  
Phone: 281-940-2576  
Email: [urooj.sagheer@eurofinset.com](mailto:urooj.sagheer@eurofinset.com)  
<http://www.emlab.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 600122-0**

**Bulk Asbestos Analysis**

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

A handwritten signature in blue ink, appearing to read "Urooj Sagheer". The signature is written in a cursive style.

For the National Voluntary Laboratory Accreditation Program