

August 13, 2018
Leaaf # DOT-012

Kiawasha White
DOTD – Section 23 Real Estate
1201 Capitol Access Road
Baton Rouge, LA 70802

**RE: Asbestos Survey Report
LA 75: Bayou Breaux Bridge – H.009484
4990 LA Hwy 75, St. Gabriel, LA 70776**

Dear Ms. White:

Attached is one (1) copy of the Asbestos Survey Report for the above referenced project. If you have any questions, please call me at (504) 342 – 2687.

Sincerely,

Leaaf Environmental, LLC



Suzanne Sicotte, MPH
Environmental Scientist

Attachments: Asbestos Survey Report

Radha Kumar
Louisiana Department of Transportation and Development
ATTN: Radha Kumar, Room S-337
1201 Capitol Access Road
Baton Rouge, LA 70802

**RE: Asbestos Survey Report
LA 75: Bayou Breaux Bridge – H.009484
4990 LA Hwy 75, St. Gabriel, LA 70776**

Dear Mr. Kumar:

The following letter report summarizes the findings of the Asbestos Bulk Sampling event completed by Leaaf Environmental, LLC (Leaaf). The survey was conducted on the property located at 4990 LA Hwy 75, St. Gabriel, LA 70776. Refer to Appendix A for an illustration of the location of the property.

Executive Summary

The samples analyzed indicate that asbestos above the regulatory limit is present in the materials sampled. Based on the PLM analysis, asbestos above the regulatory limit is present in the following building materials:

Asbestos-Containing Materials	Estimated Quantities
Brown Linoleum with Fibrous Backing	200 square feet

Survey

The asbestos survey was completed on August 7, 2018, by Jennifer Lindquist of Leaaf, a Louisiana Department of Environmental Quality Certified Asbestos Inspector (CERT # AI156793). Twenty-seven (27) bulk samples were collected in accordance with the procedures detailed in Appendix B – Attachment 1. The sampling was documented on field forms, which can be found in Appendix B – Attachment 2. The samples were sent to EmLab, a LDEQ Certified LELAP laboratory (CERT # 04153) for Polarized Light Microscopy (PLM) analysis. A few of the 27 samples were broken into layers by the laboratory; therefore, a total of 43 analyses were completed. Refer to Appendix B – Attachment 3 for a copy of the laboratory reports and chain-of-custody.

Findings

The Louisiana Department of Environmental Quality defines asbestos-containing materials as having an asbestos content of 1% or greater. Based on the PLM analytical results asbestos was found to be present. The demolition contractor and/or their subcontractor will need to fill the appropriate forms with the LDEQ in accordance with the Louisiana Administrative Code, Title 33, Part III.

If there are any questions or additional information is needed, please contact me at (504) 342-2687.

Sincerely,
Leaaf Environmental, LLC



Suzanne Sicotte, MPH
Environmental Scientist



Jennifer Lindquist
Asbestos Inspector

Attachment (support documents)

Appendices

Appendix A – Property Location Map

Appendix B – Bulk Sampling Support Documentation

Attachment 1 – Sampling & Analysis Method

Attachment 2 – Field Documentation

Attachment 3 – Analytical Results and Chain of Custody

Appendix C – Sources of Information

Attachment	Leaf Environmental, LLC	www.leaf.com
	812 Rupp Street, Gretna, LA 70053 New Orleans office: 3357 State Street Drive, New Orleans, LA 70125	Phone (504) 342-2687 Fax (504) 342-2715

Appendix A

Property Location Map

Attachment	Leaaf Environmental, LLC	www.leaaf.com
	812 Rupp Street, Gretna, LA 70053 New Orleans office: 3357 State Street Drive, New Orleans, LA 70125	Phone (504) 342-2687 Fax (504) 342-2715



Leaf Leaf Environmental, LLC www.leaf.com	<i>Source:</i>	<i>Property:</i>	<i>Drawing Name:</i>
	Google Earth	4990 LA Hwy 75 St. Gabriel, LA 70776	Property Location Map

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Appendix B

Bulk Sampling Support Documentation

Attachment 1 – Sampling & Analysis Method

Attachment 2 – Field Documentation

Attachment 3 – Analytical Results and Chain of Custody

Attachment

Leaaf Environmental, LLC

www.leaaf.com

812 Rupp Street, Gretna, LA 70053
New Orleans office: 3357 State Street Drive, New Orleans, LA 70125

Phone (504) 342-2687
Fax (504) 342-2715

Attachment 1

Sampling & Analysis Method

Attachment

Leaf Environmental, LLC

www.leaf.com

812 Rupp Street, Gretna, LA 70053
New Orleans office: 3357 State Street Drive, New Orleans, LA 70125

Phone (504) 342-2687
Fax (504) 342-2715

Sampling & Analysis Method

General Procedures:

The property is walked to identify the general construction of the structure(s). Building materials are categorized into three different types: Surfacing Materials, Thermal System Insulation and Miscellaneous Material. Samples are collected and sent to a third party for PLM analysis. Once the results are received, Leaaf reviews the samples to determine if any fall between 1-5% asbestos. If so Leaaf will typically recommend that point count analysis is implemented. Results are reviewed and the samples that are found to contain asbestos >1% asbestos are identified in the report.

Regulatory Authority:

Asbestos is a known human and animal carcinogen. Asbestos exposure combined with cigarette smoking greatly increases the risk of bronchogenic carcinomas as well as alimentary tract carcinomas. In addition, long-term exposure to asbestos fibers may cause asbestosis, a fibrotic lung disease. To reduce health risk due to occupational and ambient exposures both the state and federal government regulates asbestos.

Louisiana regulates asbestos under at least the following:

- Louisiana Administrative Codes Title 33: Part III Chapter 27 (LAC 33:III.Chapter 27) Asbestos-Containing Material in Schools and State Buildings
- LAC 33:III Chapter 51 Comprehensive Toxic Air Pollution Emission Control, Subchapter M, Asbestos – Section 5151: Emission Standards for Asbestos.

Since these regulations parallel Federal regulations and in some areas are more stringent than the Federal requirements, on May 11, 1995, EPA waived all requirements of federal rule, Asbestos-Containing Materials in Schools (40 CFR 763 Subpart E) in Louisiana in lieu of the Louisiana asbestos regulations.

- Louisiana Senate Bill 583, Act 662 – LDEQ Comprehensive Plan for Disaster Clean-up and Debris Management: Recycling of Concrete Slabs from Houses Demolished Due to Natural Disasters.

U.S Occupation Safety and Health Administration (OSHA)

- Final Rules Title 29, Part 1910, Section 1001 of the Code of Federal Regulations
- Final Rules Title 29, Part 1926, Section 1101 of the Code of Federal Regulations
- Final Rules Title 29, Part 1910, Section 120 of the Code of Federal Regulations

Equipment:

Leaaf collected the samples using small tools such as knives, hammers, chisels, etc. to obtain bulk samples. Samples are place in individual sealable plastic food grade bags and labeled with a distinct sample number.

Field Documentation:

Leaaf utilizes a Bulk Sample Summary Sheet (developed by Leaaf) to document project specific information pertaining to the collection of the bulk samples. This information includes, but is not limited to, sample number, sample location, and material description.

In addition to developing a written description of the sample location, Leaaf may also develop an approximate site field drawing, use one provided by the client and/or utilize an aerial photograph of the site to illustrate the locations where the bulk samples are collected. Any developed drawing is meant to provide a guide to the sample location and is not to be considered a legal survey or actual drawing of the property.

Upon completion of the sampling effort, Leaaf's environmental professional completes an environmental laboratory chain-of-custody to track the handling of the samples from the field to the laboratory. The samples and the chain-of-custody are placed into a sealable plastic bag. The bagged samples are then typically placed into a shipping container (typically a FedEx package) for delivery to the laboratory.

If the survey was for a school or state building, Leaaf's environmental professional will also complete a survey in accordance with AHERA requirements. Materials will be grouped into Homogenous Areas (HAs). Homogenous Areas are those suspect asbestos containing materials that are uniform in texture and color and appear identical in every other aspect. Each homogenous area is then sampled as follows:

	≤ 1,000 ft ²	>1,000 ft ² but ≤ 5,000 ft ²	> 5,000 ft ²
Surfacing Material	3 samples	5 samples	7 samples
Thermal System Insulation	3 random samples for each homogeneous area of TSI 1 random sample from each homogeneous patched TSI 1 random sample from each homogeneous fitting		
Miscellaneous Material	At the discretion of the sampler		

The condition of the HAs are evaluated and identified as one of the following:

- Category 1 – Damaged or significantly damaged thermal system insulation ACM
- Category 2 – Damaged friable surfacing ACM
- Category 3 – Significantly damaged friable surfacing ACM
- Category 4 – Damaged or significantly damaged friable miscellaneous ACM
- Category 5 – ACBM with potential damage
- Category 6 – ACBM with the potential for significant damage
- Category 7 – Any remaining friable ACM or friable suspect ACM
- Category X – Any non-friable non-regulated ACM

Leaaf may also identify the quantities associated with each HA.

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Laboratory Analysis:

PLM via EPA Method 600/R-93/116

The samples are sent to a laboratory that specializes in the analysis of asbestos cassettes for asbestos fibers via Polarized Light Microscopy (PLM). PLM utilizes a light microscope equipped with polarizing filters. The identification of asbestos fiber bundles is determined by the visual properties displayed when the sample is treated with various dispersion staining liquids. Identification is substantiated by the actual structure of the fiber and the effect of polarized light on the fiber. The limit of detection of asbestos by PLM is about one percent (1%) by area. In some cases the laboratory will identify various layers of materials within the sample collected, multiple analyses are run on these samples.

PLM Point Count (400 node point count <0.25%)

With the permission of the client, Leaaf will request point count analysis for samples below with a percentage between 1 to 5% asbestos. The point count analysis includes testing of bulk building materials for asbestos by performing 400 point counts (EPA 600/R-93/116). This is a detailed and more labor-intensive technique for estimating asbestos in a building material and is less subjective than a visual estimate. This methodology, which has a detection limit of 0.25%, increases the accuracy and precision of the asbestos concentration determined.

CARB 435

This analysis includes testing of rocks and soils for asbestos using the California Air Resource Board 435 method. The CARB 435 method is a specialized method used for testing asbestos content in the serpentine aggregate storage piles, on conveyer belts, and on covered surfaces such as roads, play-yards, shoulders and parking lots. The method includes crushing the sample using a mill to produce a sample size of less than 200 tyler mesh (75 microns) and then reporting the asbestos content by performing a 400 point count technique which has a detection limit of 0.25%.

Interpretation of Data:

To develop the opinions and conclusions presented in Leaaf's report, the environmental professional evaluates all of the data collected during the course of the sampling period. This data is then compared to the appropriate regulatory standards as identified in Regulatory Authority section above to determine if the site has asbestos-containing materials (ACM) greater than the regulatory limits. Conclusions are developed based on this comparison.

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Limitation of the Sampling and Analysis Method:

This report was developed and incorporates information that was obtainable within a reasonable time, cost and direction by the Client and/or Clients representative. Leaaf makes no warranties as to the conclusions or opinions made by others based on the information presented in this report. This is a survey of isolated areas identified by the owner or a comprehensive survey of the entire building(s). This survey is a Destructive survey. Note: As site construction can mask the location of suspect building materials, the demolition or renovation of an area may expose new suspect materials. If materials are exposed that have not been sampled, work in the area of the suspect material should stop until such materials can be sampled and analyzed to determine the asbestos content and whether the disturbance has created an asbestos fiber exposure issue.

Leaaf's typical Asbestos Survey does not specifically identify all locations where all asbestos can be found nor does it identify the quantities of asbestos containing materials; therefore, unless specifically stipulated in the report, any building component that has been identified as containing asbestos must be assumed to contain asbestos in all other components of similar makeup. An assumption that a material does not contain asbestos can only be rendered if that material was sampled, analyzed and found not to contain asbestos. If multiple samples were collected of a similar material then if any one of the samples were found to contain asbestos then all similar materials should be assumed to contain asbestos unless detailed in the report. Should disturbance or renovation and/or demolition fall outside of the area surveyed in this report, the owner, contractor and/or client will need to complete an additional survey prior to disturbance of the building materials.

Prior to any disturbance of ACM or the renovation and/or demolition of any building materials the Client's contractor may be required to submit a notification form to the local state regulatory agency. In the State of Louisiana an AAC-2 form needs to be submitted to LDEQ at least 10-days prior to any renovations or demolition regardless of the asbestos content found.

This survey was not intended to determine any medical conditions; therefore, if an occupant is experiencing health related complaints or is suspected of being exposed to asbestos then an environmental health physician should be consulted.

This survey was not meant to address OSHA-based exposure issues; therefore, OSHA may require more stringent sampling protocols or asbestos content levels for the identification of asbestos and protection of workers.

This report should not be altered, copied or transfer to a third party without Leaaf's written permission. This survey was the initial phase in the process of managing asbestos. This report is a survey and is not authorized for use to develop a cost for abatement by others nor should it be considered a Scope of Work, an abatement Specification or a Management Plan.

Attachment 2

Field Documentation

Attachment

Leaaf Environmental, LLC

www.leaaf.com

812 Rupp Street, Gretna, LA 70053
New Orleans office: 3357 State Street Drive, New Orleans, LA 70125

Phone (504) 342-2687
Fax (504) 342-2715



Leaf #: DOT-012

Project Name: ASB Inspection

Project Location: 4990 LA Hwy 75, St. Gabriel, LA 70776

Sample Number	Material Description	Sample Location
DOT-012-PLM-001	Sheetrock + texture - ceiling	entry from carport (center)
DOT-012-PLM-002	"	entry from carport (near kitchen)
DOT-012-PLM-003	"	kitchen
DOT-012-PLM-004	"	dining room
DOT-012-PLM-005	"	Bedroom 1
DOT-012-PLM-006	"	Hall
DOT-012-PLM-007	"	Master bath
DOT-012-PLM-008	sheetrock - wall	S wall
DOT-012-PLM-009	"	E wall
DOT-012-PLM-010	"	N wall
DOT-012-PLM-011	"	Master bath
DOT-012-PLM-012	"	Master bath wall
DOT-012-PLM-013	octagon linoleum	entry from carport
DOT-012-PLM-014	"	"
DOT-012-PLM-015	gold square linoleum	kitchen
DOT-012-PLM-016	"	"
DOT-012-PLM-017	12x12 tile	Master bath
DOT-012-PLM-018	"	"
DOT-012-PLM-019	rock pattern linoleum	Master bath under 12x12
DOT-012-PLM-020	"	"
DOT-012-PLM-021	sheetrock-wall/ceiling	Utility
DOT-012-PLM-022	"	"
DOT-012-PLM-023	"	"
DOT-012-PLM-024	12x12 tile	Utility

Environmental Professional: Jennifer Lindquist

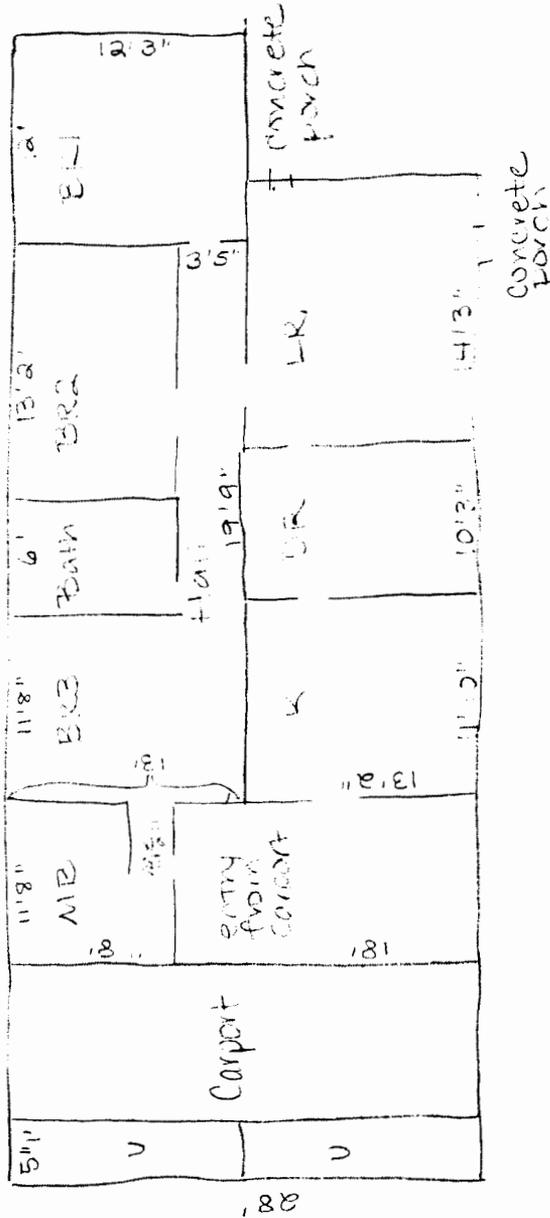
Date: 8/7/18

Keep this liner for your records. 813297065865 813297065865

Field Notes



LA 75



Ointment St.

8' ceilings - wood baseboards - fiberglass attic insulation.
Under block/stucco - no window glaze

Utility (u) - 12x12 red tile + 1/2 of floor, shtrk ceiling divider/wall on carpet side
Carpet - wood siding, concrete floor, plywood ceiling

entry from carpet - popcorn/shtrk ceiling, octagon linoleum floor, shtrk walls
Kitchen (k) - solid square linoleum, fiberboard walls, popcorn shtrk ceiling

dining room (DR) fiberboard walls, popcorn shtrk ceiling, wood under carpet

Living room (LR) - same as DR

BR1, BR2, BR3 - same as LR

Bath - Ceramic floor + 1/2 walls, 1/2 shtrk walls, popcorn ceiling shtrk (damaged)
Master bath (MB) - 12x12 tiles over rock pattern linoleum, shtrk walls, popcorn shtrk ceiling

Roof is new - No AC insulation

Not to Scale

Attachment 3

Laboratory Report and Chain of Custody

Attachment

Leaaf Environmental, LLC

www.leaaf.com

812 Rupp Street, Gretna, LA 70053
New Orleans office: 3357 State Street Drive, New Orleans, LA 70125

Phone (504) 342-2687
Fax (504) 342-2715



Report for:

Mr. Jim Blazek
Leaaf Environmental, LLC
812 Rupp St.
Gretna, LA 70053

Regarding: Project: H.009484
 EML ID: 1978333

Approved by:

Approved Signatory
Balu Krishnan

Dates of Analysis:
Asbestos PLM: 08-10-2018

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)

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 items 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.

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: Leaaf Environmental, LLC
 C/O: Mr. Jim Blazek
 Re: H.009484

Date of Sampling: 08-07-2018
 Date of Receipt: 08-08-2018
 Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Total Samples Submitted: 27
Total Samples Analyzed: 27

Total Samples with Layer Asbestos Content > 1%: 2

Location: DOT-012-PLM-001, Sheetrock + Texture

Lab ID-Version‡: 9323084-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-002, Sheetrock + Texture

Lab ID-Version‡: 9323085-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Texture with Paint	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-003, Sheetrock + Texture

Lab ID-Version‡: 9323086-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Joint Compound	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-004, Sheetrock + Texture

Lab ID-Version‡: 9323087-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Good

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. 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".

EMLab P&K
 6301 NW 5th way, Suite#: 1410, Ft. Lauderdale, FL 33309
 (866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: Leaaf Environmental, LLC
 C/O: Mr. Jim Blazek
 Re: H.009484

Date of Sampling: 08-07-2018
 Date of Receipt: 08-08-2018
 Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Location: DOT-012-PLM-005, Sheetrock + Texture

Lab ID-Version‡: 9323088-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Joint Compound	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-006, Sheetrock + Texture

Lab ID-Version‡: 9323089-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Joint Compound	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-007, Sheetrock + Texture

Lab ID-Version‡: 9323090-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Joint Compound	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-008, Sheetrock

Lab ID-Version‡: 9323091-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

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‡ 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: Leaf Environmental, LLC
 C/O: Mr. Jim Blazek
 Re: H.009484

Date of Sampling: 08-07-2018
 Date of Receipt: 08-08-2018
 Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Location: DOT-012-PLM-009, Sheetrock

Lab ID-Version‡: 9323092-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper with Paint	ND
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-010, Sheetrock

Lab ID-Version‡: 9323093-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-011, Sheetrock

Lab ID-Version‡: 9323094-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-012, Sheetrock

Lab ID-Version‡: 9323095-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Off-White Joint Compound	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

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 6301 NW 5th way, Suite#: 1410, Ft. Lauderdale, FL 33309
 (866) 871-1984 Fax (954) 776-8485 www.emlab.com

Client: LeAAF Environmental, LLC
 C/O: Mr. Jim Blazek
 Re: H.009484

Date of Sampling: 08-07-2018
 Date of Receipt: 08-08-2018
 Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Location: DOT-012-PLM-013, Octagon Linoleum

Lab ID-Version†: 9323096-1

Sample Layers	Asbestos Content
Brown Linoleum with Fibrous Backing	20% Chrysotile
Yellow Mastic	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: DOT-012-PLM-014, Octagon Linoleum

Lab ID-Version†: 9323097-1

Sample Layers	Asbestos Content
Brown Linoleum with Fibrous Backing	20% Chrysotile
Yellow Mastic	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: DOT-012-PLM-015, Gold Square Linoleum

Lab ID-Version†: 9323098-1

Sample Layers	Asbestos Content
Beige Linoleum with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-016, Gold Square Linoleum

Lab ID-Version†: 9323099-1

Sample Layers	Asbestos Content
Beige Linoleum with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

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Client: Leaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: H.009484Date of Sampling: 08-07-2018
Date of Receipt: 08-08-2018
Date of Report: 08-10-2018**ASBESTOS PLM REPORT****Location: DOT-012-PLM-017, 12x12 Tile**

Lab ID-Version†: 9323100-1

Sample Layers	Asbestos Content
Brown/White Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-018, 12x12 Tile

Lab ID-Version†: 9323101-1

Sample Layers	Asbestos Content
Brown/White Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-019, Rock Pattern Linoleum

Lab ID-Version†: 9323102-1

Sample Layers	Asbestos Content
Cream Linoleum	ND
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-020, Rock Pattern Linoleum

Lab ID-Version†: 9323103-1

Sample Layers	Asbestos Content
Cream Linoleum	ND
Sample Composite Homogeneity:	Good

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Date of Sampling: 08-07-2018
 Date of Receipt: 08-08-2018
 Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Location: DOT-012-PLM-021, Sheetrock

Lab ID-Version‡: 9323104-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper with Paint	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-022, Sheetrock

Lab ID-Version‡: 9323105-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-023, Sheetrock

Lab ID-Version‡: 9323106-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper with Paint	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-024, 12x12 Tile

Lab ID-Version‡: 9323107-1

Sample Layers	Asbestos Content
Brown Floor Tile	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

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. 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: Leaaf Environmental, LLC
C/O: Mr. Jim Blazek
Re: H.009484

Date of Sampling: 08-07-2018
Date of Receipt: 08-08-2018
Date of Report: 08-10-2018

ASBESTOS PLM REPORT

Location: DOT-012-PLM-025, 12x12 Tile

Lab ID-Version‡: 9323108-1

Sample Layers	Asbestos Content
Brown Floor Tile	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-026, Roofing

Lab ID-Version‡: 9323109-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: DOT-012-PLM-027, Roofing

Lab ID-Version‡: 9323110-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	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".



001978333

Project Name	H.009484	Project #	DOT-012
Address	4930 LA Hwy 75, St. Gabriel, LA 70776		
Leaaf Contact	Jim Blazek	Email	jimblazek@leaaf.com
Sample By	Jennifer Lindquist	Sample Date	08/07/2018

Analysis	<input checked="" type="checkbox"/> PLM (EPA method 600/R-93-116)	<input type="checkbox"/> PCM NIOSH 7400
	<input type="checkbox"/> Point Count 400 (down to <0.25%)	<input type="checkbox"/> PCM-OSHA w 8hr TWA
		<input type="checkbox"/> TEM AHERA (40 CFR part 763 Appendix A subpart E)
Turnaround	<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 hr <input type="checkbox"/> Standard (3-5 days)	

Refer to Attached Data Sheet

Sample #	Description	Volume, Area or I/A# (as Applicable)
DOT-012-PLM-001	sheetrock + texture	note: texture separated from sheetrock on removal but is included in the same bag samples 001-007
DOT-012-PLM-002	sheetrock + texture	
DOT-012-PLM-003	sheetrock + texture	
DOT-012-PLM-004	sheetrock + texture	
DOT-012-PLM-005	sheetrock + texture	
DOT-012-PLM-006	sheetrock + texture	
DOT-012-PLM-007	sheetrock + texture	
DOT-012-PLM-008	sheetrock	
DOT-012-PLM-009	sheetrock	
DOT-012-PLM-010	sheetrock	
DOT-012-PLM-011	sheetrock	
DOT-012-PLM-012	sheetrock	
DOT-012-PLM-013	octagon linoleum	
DOT-012-PLM-014	octagon linoleum	
DOT-012-PLM-015	gold square linoleum	
DOT-012-PLM-016	gold square linoleum	
DOT-012-PLM-017	12x12 tile	
DOT-012-PLM-018	12x12 tile	
DOT-012-PLM-019	rock pattern linoleum	

Receiving Laboratory	Address	Phone Number
EMLab P&K	6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309	(887) 711-8400

Relinquished By	Date / Time	Received By	Date / Time
Jennifer Lindquist	8/7/18 1545	FedEx	8132 9706 5865
FedEx	See shipping docs	CA	8/8/18 W. J. [Signature]

Positive Stop on I/A Additional Pages Attached Page 1 of 2



001978333

Project Name	H.009484	Project #	DOT-012
Address	4960 LA Hwy 75, St. Gabriel, LA 70776		
Leaaf Contact	Jim Blazek	Email	jimblazek@leaaf.com
Sample By	Jennifer Lindquist	Sample Date	08/07/2018

Analysis	<input checked="" type="checkbox"/> PLM (EPA method 600/R-93-116)	<input type="checkbox"/> PCM NIOSH 7400
	<input type="checkbox"/> Point Count 400 (down to <0.25%)	<input type="checkbox"/> PCM-OSHA w Bhr TWA
		<input type="checkbox"/> TEM AHERA (40 CFR part 763 Appendix A subpart E)
Turnaround	<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 hr <input type="checkbox"/> Standard (3-5 days)	

<input type="checkbox"/> Refer to Attached Data Sheet		
Sample #	Description	Volume, Area or HIA# (as Applicable)
DOT-012-PLM-020	rock pattern linoleum	
DOT-012-PLM-021	sheetrock	
DOT-012-PLM-022	sheetrock	
DOT-012-PLM-023	sheetrock	
DOT-012-PLM-024	12x12 tile	
DOT-012-PLM-025	12x12 tile	
DOT-012-PLM-026	roofing	
DOT-012-PLM-027	roofing	
DOT-012-PLM-		

Receiving Laboratory	Address	Phone Number
EMLab P&K	6301 NW 5th Way, Suite 2850, Ft. Lauderdale, FL 33309	(887) 711-8400

Relinquished By	Date / Time	Received By	Date / Time
Jennifer Lindquist	8/7/18 1545	FedEx	8132 9706 5865
Fedex	See shipping docs		GA 8/10/18 6:25 AM

<input type="checkbox"/> Positive Stop on HIA	<input type="checkbox"/> Additional Pages Attached	Page 12 of 12
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Appendix C

Sources of Information

Attachment

Leaaf Environmental, LLC

www.leaaf.com

812 Rupp Street, Gretna, LA 70053
New Orleans office: 3357 State Street Drive, New Orleans, LA 70125

Phone (504) 342-2687
Fax (504) 342-2715

Sources of Information

1. Louisiana Department of Environmental Quality
 - Title 33, Part III *Section* §2701. Asbestos-Containing Materials in Schools and State Buildings Regulation. 04/14
 - Title 33, Part III *Section* §5151 Emission Standards for Asbestos. 04/14
2. NIOSH Method 9002 Issue #2 Asbestos (bulk) by PLM. NIOSH Manual of Analytical Methods (NMAM), Issue 1: 15 May 1989 - Issue 2: 15 August 1994.
3. U.S Occupation Safety and Health Administration (OSHA)
 - Final Rules Title 29, Part 1910, Section 1001 of the Code of Federal Regulations
 - Final Rules Title 29, Part 1926, Section 1101 of the Code of Federal Regulations
 - Final Rules Title 29, Part 1910, Section 120 of the Code of Federal Regulations
4. U.S. Environmental Protection Agency (EPA)
 - Asbestos-Containing Materials in Schools, 40 CFR Part 763, Subpart E
 - Asbestos national Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M