

Asbestos Survey Report

H.004100 – I-10: LA 415 to Essen on I-10 & I-12

Parcel# ADV-19

2533 Honeysuckle Avenue
Baton Rouge, Louisiana 70808

February 4, 2022

Terracon Project No. ET217377



Prepared for:

Louisiana Department of Transportation and Development
Baton Rouge, Louisiana

Prepared by:

Terracon Consultants, Inc.
New Orleans, Louisiana

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials



February 4, 2022

Louisiana Department of Transportation and Development (LADOTD)
P.O. Box 94245
Baton Rouge, Louisiana 70804

Attn: Ms. Radha Kumar, DOTD Program Specialist
P: 225.242.4554
E: Radha.Kumar@la.gov

Re: Asbestos Survey Report
H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-19
2533 Honeysuckle Avenue
Baton Rouge, Louisiana 70808
Terracon Project No. ET217377


Dear Ms. Kumar:

The purpose of this report is to present the results of the asbestos survey performed at the former residential structure located at 2533 Honeysuckle Avenue in Baton Rouge, Louisiana. This survey was conducted in general accordance with Terracon's Right of Way Consultant Task Order Assignment dated January 11, 2022 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 were 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


Jason M. Maloney, P.E.
Department Manager

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ASBESTOS SURVEY REPORT
H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-19
2533 Honeysuckle Avenue
Baton Rouge, Louisiana 70808
Terracon Project No. ET217377
February 4, 2022

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the above referenced structure located at 2533 Honeysuckle Avenue in Baton Rouge, Louisiana. The survey was conducted by a Louisiana Department of Environmental Quality (LDEQ) accredited asbestos inspector. The asbestos survey was conducted in accordance with Terracon’s Right of Way Consultant Task Order Assignment dated January 11, 2022 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 site consisted of an approximately 1,323-square foot, one-story, wood framed residential house with wood siding. Interior finishes generally consisted gypsum wallboard walls and ceilings with ceramic flooring.

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3.0 FIELD ACTIVITIES

The asbestos survey was conducted by LDEQ accredited asbestos inspector, Mr. 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 observations of the interior and exterior of the building proposed for 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 glass, wood, metal or rubber were not considered suspect ACM.

Although reasonable effort was made to survey accessible suspect materials, such as under floor coverings or behind ceilings and walls, additional suspect but un-sampled materials could be located in walls, in voids, or in other concealed areas.

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 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.

Seventeen bulk samples were collected from five 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 homogeneous areas are presented in Appendix C.

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3.4 Sample Analysis

Bulk samples were submitted under chain-of-custody to CA Labs, LLC of Baton Rouge, Louisiana (NVLAP Accreditation No 200772-0, LELAP Accreditation No 03069) 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%.

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5.0 FINDINGS & RECOMMENDATIONS

5.1 Regulated Asbestos Containing Materials

Laboratory analysis of samples collected during this survey confirmed the following RACM:

- HA-03: White Wall Texture
- HA-04: White Ceiling Texture

According to LDEQ and USEPA NESHAP regulations, friable ACM is considered RACM and is required to be removed prior to disturbance or demolition.

5.2 Recommendations

Results of this survey indicated the presence of RACM in excess of established regulatory thresholds in connection with the subject structure. Therefore, these materials must be removed and disposed by a Louisiana-licensed asbestos abatement contractor prior disturbance or initiating demolition activities.

Prior to initiating renovation activities all sections of the AAC-2 (a) Form must be completed and submitted to LDEQ prior to removal activities and an Asbestos Disposal Verification Form (ADVF) requested in accordance with the requirements of as indicated in LAC 33:III.5151 Subclause F.1.a. Upon proper notification, the LDEQ will issue an ADVF to provide approval to begin demolition activities and to ensure that the ACM is removed and disposed of properly.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. If additional but un-sampled suspect ACMs are revealed during renovation or demolition activities, the material(s) must be assumed to contain asbestos and treated as such unless sampled by an accredited inspector and laboratory analysis determines otherwise.

Terracon recommends preparing specifications (Project Design) for ACM removal. The specifications should include the scope of work, personal protective equipment, work procedures, air monitoring, and documentation.

A summary of the classification, condition and approximate quantity of each identified ACM is presented in Appendix A. Laboratory analytical reports are presented in Appendix B. Room ID designations, sample locations, and ACM locations are presented in Appendix D.

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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 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, express or implied is made.

**APPENDIX A
ASBESTOS SURVEY SAMPLE SUMMARY**

TABLE 1.0
CONFIRMED ASBESTOS-CONTAINING MATERIALS
H H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-19
2533 Honeysuckle Avenue
Baton Rouge, Louisiana 70808
Terracon Project No. ET217377

HA	Material Description	Material Location	Condition	NESHAP Category ¹	Estimated Quantity ²
03	White Wall Texture	Bedrooms, Bathroom, and Hallway	Good	RACM	3,500 SF
04	White Ceiling Texture	Bedrooms, Bathroom, and Hallway	Good	RACM	500 SF

¹ RACM = regulated asbestos containing material; Cat I NF = Category I non-friable; CAT II NF = Category II non-friable

² Estimated quantities are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACM are present in hidden and/or inaccessible areas not evaluated as part of this survey. LF = linear feet; SF = square feet

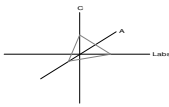
TABLE 2.0
ASBESTOS SURVEY SAMPLE SUMMARY
H H.004100 – I-10: LA 415 to Essen on I-10 & I-12
Parcel# ADV-19
2533 Honeysuckle Avenue
Baton Rouge, Louisiana 70808
Terracon Project No. ET217377

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
01	Reddish-Brown 12"x12" Ceramic Floor Tile with Brown Grout and Gray Thinset	Throughout except Utility Room	Good	01-01	None Detected
				01-02	None Detected
				01-03	None Detected
02	White Wallboard and Joint Compound	Throughout	Good	02-04	None Detected
				02-05	None Detected
				02-06	None Detected
03	White Wall Texture	Bedrooms, Bathroom, and Hallway	Good	03-07	None Detected
				03-08	3% Chrysotile
				03-09	3% Chrysotile
				03-10	3% Chrysotile
				03-11	None Detected
04	White Ceiling Texture	Bedrooms, Bathroom, and Hallway	Good	04-12	3% Chrysotile
				04-13	3% Chrysotile
				04-14	3% Chrysotile
05	Black Roof Shingles with Black Tar Paper	Roof	Good	05-15	None Detected
				05-16	None Detected
				05-17	None Detected

APPENDIX B
LABORATORY ANALYTICAL REPORTS

CA Labs
Dedicated to
Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Terracon Consultants

524 Elmwood Park Blvd #170
New Orleans, LA 70123

Attn: Steven Latiolais

Customer Project: 2533 Honeysuckle Ave.

Reference #: CBR22010510

Date: 1/20/2022

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

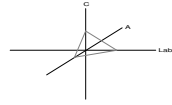
Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.



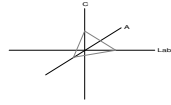
Overview of Project Sample Material Containing Asbestos

Customer Project:	2533 Honeysuckle Ave.			CA Labs Project #:	CBR22010510
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
2533-03-08	08-1		<i>Gray Paint White and Tan Compound</i>	3% Chrysotile	Gray Paint White and Tan Compound White Paint Tan Compound
2533-03-09	09-1		<i>Gray Paint White and Tan Compound</i>	3% Chrysotile	
2533-03-10	10-2		<i>Tan Compound</i>	3% Chrysotile	
2533-04-12	12-1		<i>White Paint Tan Compound</i>	3% Chrysotile	
2533-04-13	13-1		<i>White Paint Tan Compound</i>	3% Chrysotile	
2533-04-14	14-1		<i>White Paint Tan Compound</i>	3% Chrysotile	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Steven Latiolais
Terracon Consultants
 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

Customer Project:
 2533 Honeysuckle Ave.

CA Labs Project #:
 CBR22010510

Phone # 318-787-3269
 Fax #

Turnaround Time: 2 day


Date: 1/20/2022
Samples Received: 1/19/2022
Date Of Sampling:
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
2533-01-01		01-1	Brown Ceramic Tile	N	None Detected		100% qu, ma
		01-2	Gray Grout	Y	None Detected		100% qu, ma, ca
2533-01-02		02-1	Brown Ceramic Tile	N	None Detected		100% qu, ma
		02-2	Gray Grout	Y	None Detected		100% qu, ma, ca
2533-01-03		03-1	Brown Ceramic Tile	N	None Detected		100% qu, ma
		03-2	Gray Grout	Y	None Detected		100% qu, ma, ca
2533-02-04		04-1	Gray Paint White Compound	N	None Detected		100% qu, mi, bi, ca


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

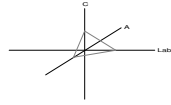

 Zo Andriampenomanana
 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 2. Fire Damage no significant fiber damages effecting fibrous percentages
 3. Actinolite in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Steven Latiolais
Terracon Consultants
 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

Customer Project:
 2533 Honeysuckle Ave.

CA Labs Project #:
 CBR22010510

Phone # 318-787-3269
 Fax #

Turnaround Time: 2 day


Date: 1/20/2022
Samples Received: 1/19/2022
Date Of Sampling:
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			<i>White Compound Beneath</i>				
		04-2	<i>Tape</i>	Y	None Detected		100% qu, mi, ca
		04-3	<i>White Drywall with Paper</i>	N	None Detected	10% ce	90% qu, gy
2533-02-05		05-1	<i>White Paint White Compound</i>	N	None Detected		100% qu, mi, bi, ca
			<i>White Compound Beneath</i>				
		05-2	<i>Tape</i>	Y	None Detected		100% qu, mi, ca
		05-3	<i>White Drywall with Paper</i>	N	None Detected	10% ce	90% qu, gy
2533-02-06		06-1	<i>Gray Paint White Compound</i>	N	None Detected		100% qu, mi, bi, ca
			<i>White Compound Beneath</i>				
		06-2	<i>Tape</i>	Y	None Detected		100% qu, mi, ca


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

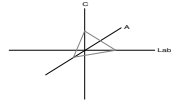

 Zo Andriampenomanana
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 Senior Analyst
 Alicia Stretz


 Laboratory Director
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 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

Customer Project:
 2533 Honeysuckle Ave.

CA Labs Project #:
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Phone # 318-787-3269
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Turnaround Time: 2 day


Date: 1/20/2022
Samples Received: 1/19/2022
Date Of Sampling:
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		06-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
2533-03-07		07-1	Gray Paint White Compound	N	None Detected		100% qu, mi, bi, ca
			Gray Paint White and Tan				
2533-03-08		08-1	Compound	N	3% Chrysotile		97% qu, mi, bi, ca
			Gray Paint White and Tan				
2533-03-09		09-1	Compound	N	3% Chrysotile		97% qu, mi, bi, ca
			Gray Paint White Compound				
2533-03-10		10-1	Compound	N	None Detected		100% qu, mi, bi, ca
			Tan Compound	Y	3% Chrysotile		97% qu, mi, ca
2533-03-11		11-1	Gray Paint White Compound	N	None Detected		100% qu, mi, bi, ca


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

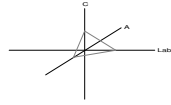

 Zo Andriampenomanana
 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 2. Fire Damage no significant fiber damages effecting fibrous percentages
 3. Actinolite in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Steven Latiolais
Terracon Consultants
524 Elmwood Park Blvd #170
New Orleans, LA 70123

Customer Project:
2533 Honeysuckle Ave.

CA Labs Project #:
CBR22010510

Phone # 318-787-3269
Fax #

Turnaround Time: 2 day


Date: 1/20/2022
Samples Received: 1/19/2022
Date Of Sampling:
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		11-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
2533-04-12		12-1	White Paint Tan Compound	N	3% Chrysotile		97% qu, mi, bi, ca
2533-04-13		13-1	White Paint Tan Compound	N	3% Chrysotile		97% qu, mi, bi, ca
2533-04-14		14-1	White Paint Tan Compound	N	3% Chrysotile		97% qu, mi, bi, ca
2533-05-15		15-1	Black Shingle with Black Gravel	N	None Detected	15% fg	85% qu, bi
		15-2	Black Felt	Y	None Detected	40% ce	60% qu, bi
2533-05-16		16-1	Black Shingle with Gray and Brown Gravel	N	None Detected	15% fg	85% qu, bi


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Zo Andriampenomanana
Analyst


Senior Analyst
Alicia Stretz

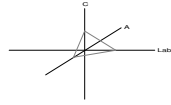

Laboratory Director
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CA Labs
Dedicated to
Quality

CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Steven Latiolais
Terracon Consultants
 524 Elmwood Park Blvd #170
 New Orleans, LA 70123

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 2533 Honeysuckle Ave.

CA Labs Project #:
 CBR22010510

Phone # 318-787-3269
 Fax #

Turnaround Time: 2 day


Date: 1/20/2022
Samples Received: 1/19/2022
Date Of Sampling:
Purchase Order #: ET217377


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		16-2	Black Felt	Y	None Detected	40% ce	60% qu, bi
2533-05-17		17-1	Black Shingle with Gray Gravel	N	None Detected	15% fg	85% qu, bi


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Approved Signatories:


 Zo Andriampenomanana
 Analyst


 Senior Analyst
 Alicia Stretz


 Laboratory Director
 Chris Williams

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C.A. Labs, LLC.
 12232 Industripex
 Suite 32
 Baton Rouge, LA 70809

Phone: 225-751-5632
 Fax: 225-751-5634
 Mobile: 225-993-3471

Chain of Custody

Client Name: Terracon New Orleans **CA Labs job # CBR 200.0510**

Client Address: 524 Elmwood Park Blvd. Billing Address: Same
 Suite 170 (if different)
 New Orleans, LA 70123

phone number: 504.818.3638 adam.mcevoy@terracon.com
 fax number: 504.818.3890 Send Reports to: jason.maloney@terracon.com

Project Number: ET217377 Project Name: 2533 Honey Suckle Ave.
Reports Results

Contact: Adam McEvoy VIA: EMAIL FAX VERBAL

Total # Samples Submitted: 17	Total # Samples to be Analyzed: 17	Material Matrix: Air / <u>Bulk</u> / Water
-------------------------------	------------------------------------	--------------------------------------------

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	Allergen Particle:	2 hour
AHERA	4 hour	Improved	4 hour	tape/bulk/swab	4 hour
EPA Level II	8 hour	Interim	8 hour	Cyclex-d cassettes	8 hour
Drinking Water	16 hour	<u>AHERA</u>	16 hour	Air-o-cell cassettes	16 hour
Wipe	24 hour		24 hour	Anderson cultures	24 hour
Micro-vac	2 days		<u>2 days</u>	Bulk/swab cultures	2 days
NIOSH 7402	3 days	Point Count -	3 days	Bacteria cultures	3 days
Chatfield Bulk	5 days	(NESHAPS)	5 days	PCM: NIOSH 7400	5-10 days

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	TCLP
TA Time:	8 hour	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
	Please See Attached		

Custody Information:

Samples relinquished: ALM 1-19-22/14:15
 Signature / Date / Time

Samples received: [Signature] 1/19/22
 Signature / Date / Time

Samples relinquished: _____
 Signature / Date / Time

Samples received: _____
 Signature / Date / Time 2:45pm

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition ¹
2533-01-01	Living Room	Reddish-Brown 12" HD Ceramic Floor Tile w/ Brown Grout & Coax Tiles etc	Throughout except Utility Room		G D SD
2533-01-02	Bedroom 1				
2533-01-03	Bedroom 2				
2533-02-04	Living Room	White Wall board w Joint Compound	Throughout		G D SD
2533-02-05	Utility Room				
2533-02-06	Bedroom 1	White Wall Texture	Bedroom 2 Bedroom & Hk 11	3 SCOSK	G D SD
2533-03-07	Hallway				
2533-03-08	Bedroom 1				
2533-03-09	Bedroom 2				
2533-03-10					
2533-03-11	Hallway	White Ceiling Texture	↓	2 SCOSK SCOSK	G D SD
2533-04-12	Hallway				
2533-04-13	Bedroom 1				
2533-04-14	Bedroom 2				
2533-05-15	Roof	Black Roof Shingles w/ Black Tar Paper			G D SD
2533-05-16	↓				
2533-05-17	↓				
					G D SD

JAC 1/19/20
2:45 PM

APPENDIX C
PHOTOGRAPH LOG



Photograph No. 1

HA-01: Reddish-Brown 12"x12" Ceramic Floor Tile



Photograph No. 2

HA-02: White Wallboard with Joint Compound



Photograph No. 3

HA-03: White Wall Texture

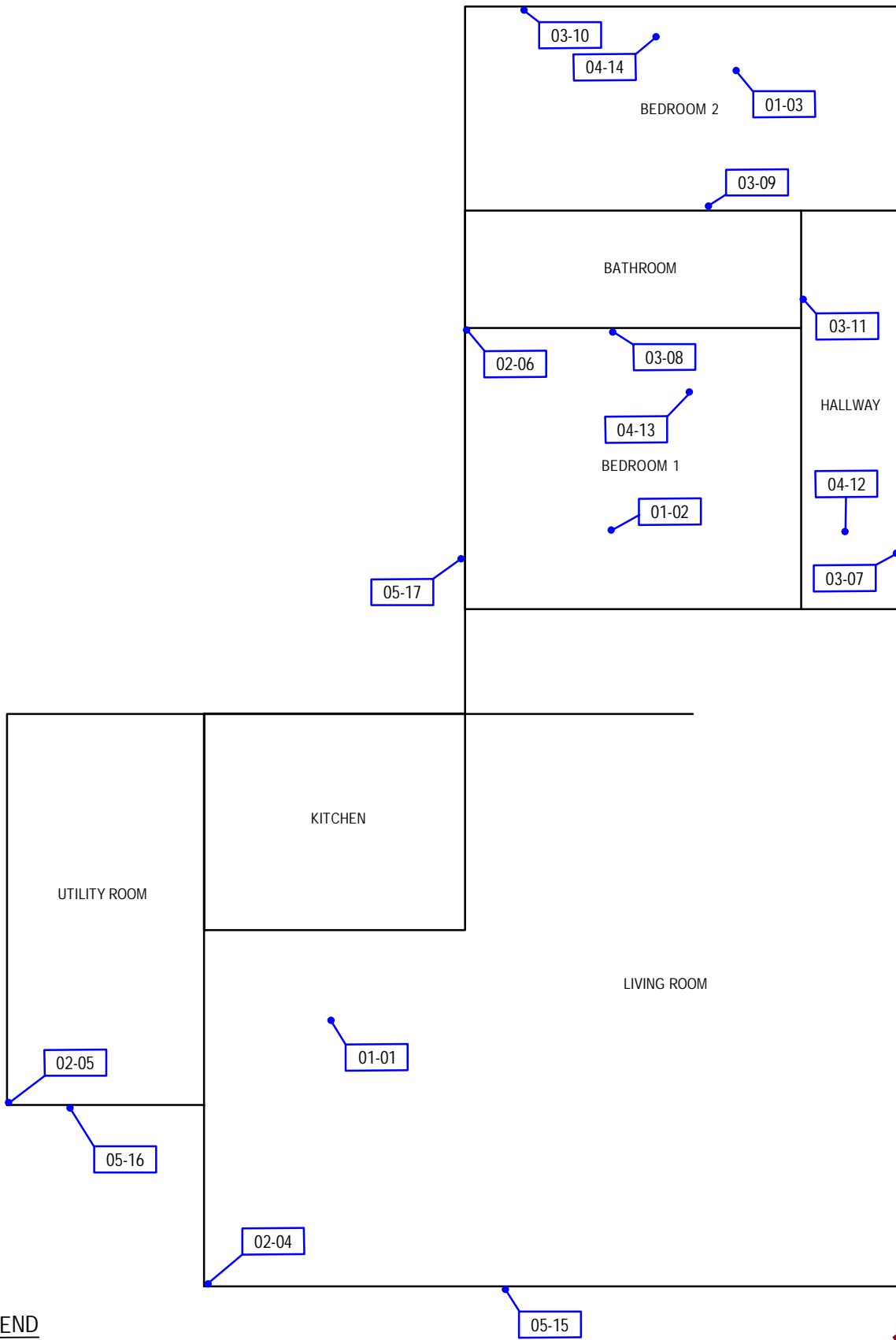


Photograph No. 4
HA-04: White Ceiling Texture



Photograph No. 5
HA-05: Black Roof Shingles with Black Tar Paper

APPENDIX D
EXHIBITS



LEGEND

● ASBESTOS BULK SAMPLE LOCATIONS

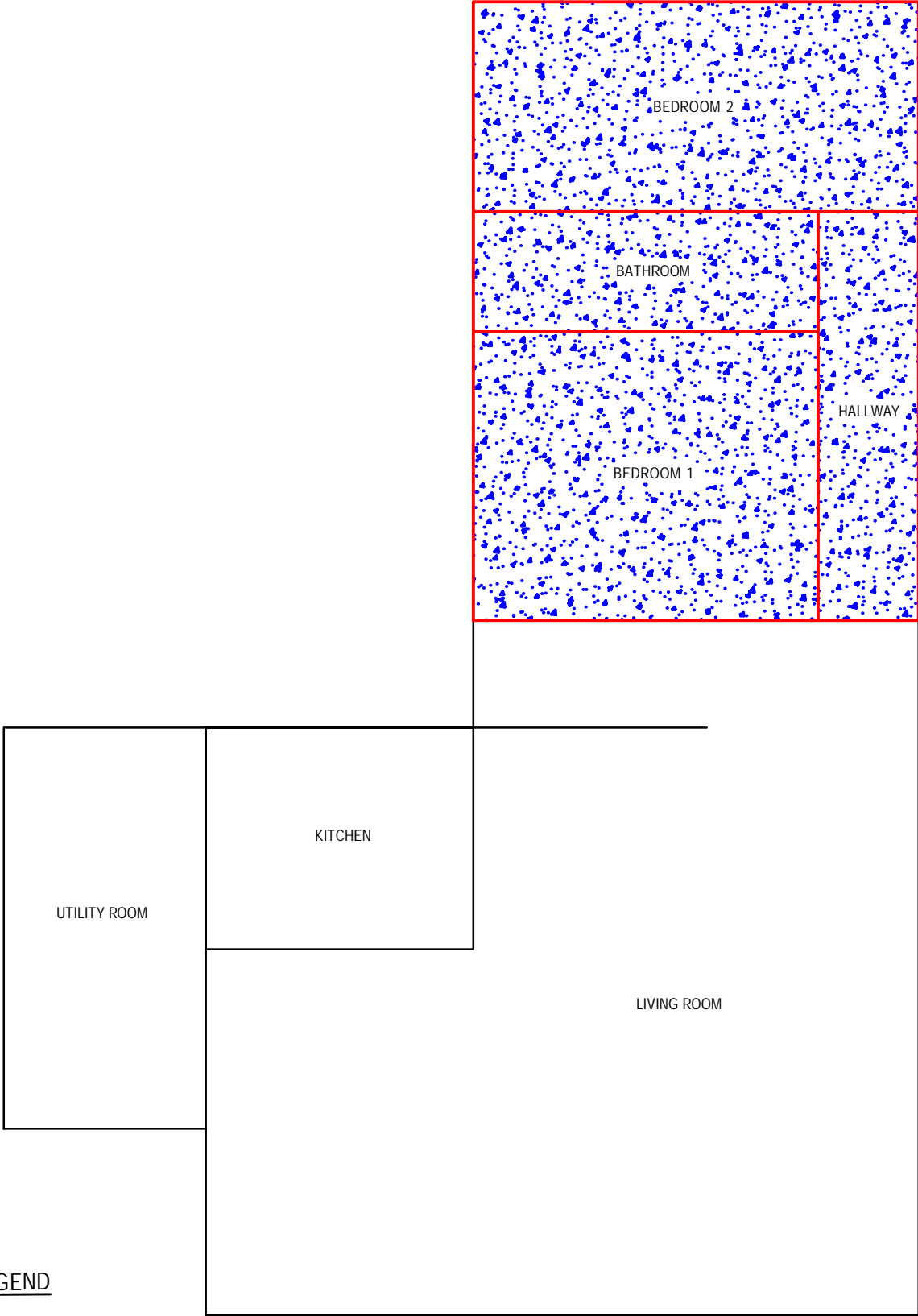
THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mng:	AMM	Project No.	ET217377
Drawn By:	AMM	Scale:	NOT TO SCALE
Checked By:	JMM	File No.	ET217377.dwg
Approved By:	JMM	Date:	FEB 2022

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

ASBESTOS BULK SAMPLE LOCATIONS
ASBESTOS SURVEY H.004100 - 1-10; LA415 TO ESSEN ON I-10 & I-12 2533 HONEYSUCKLE AVENUE BATON ROUGE, LOUISIANA

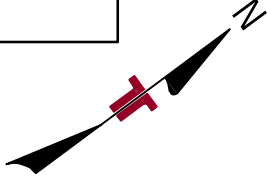
EXHIBIT
1



LEGEND

— HA-03: WHITE WALL TEXTURE

 HA-04: WHITE CEILING TEXTURE



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

Project Mng:	AMM
Drawn By:	AMM
Checked By:	JMM
Approved By:	JMM

Project No.	ET217377
Scale:	NOT TO SCALE
File No.	ET217377.dwg
Date:	FEB 2022

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

ASBESTOS-CONTAINING MATERIALS LOCATIONS
ASBESTOS SURVEY H.004100 - 1-10: LA415 TO ESSEN ON I-10 & I-12 2533 HONEYSUCKLE AVENUE BATON ROUGE, LOUISIANA

EXHIBIT
2

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

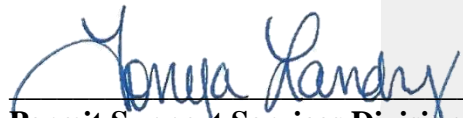
Accreditation No. J1201568

AI No. 201568

Date of Issuance November 30, 2021

Expiration January 31, 2023

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

LOUISIANA

JOHN BEL EDWARDS
GOVERNOR



CHUCK CARR BROWN, Ph.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Read Receipt Requested

AI No. 165918
Activity No. ACC20210001
LELAP Lab ID # 03069
Accreditation Year FY 2022
Renewal due FY 2025

Mr. Christopher Williams
CA Laboratories LLC
12232 Industriplex Blvd Ste 32
Baton Rouge, Louisiana 70809

Re: Renewal Scope of Accreditation

Dear Mr. Williams:

On May 12, 2021, the Louisiana Environmental Laboratory Accreditation Program (LELAP) received a renewal application for Accreditation.

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 2022. 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 only 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

Mr. Christopher Williams
CA Laboratories LLC
Page 2 of 2

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

14 May 2021

Date

CSN:KHW:jpb



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



CA Laboratories LLC
12232 Industriplex Blvd Ste 32
Baton Rouge, Louisiana 70809

Agency Interest No. 165918
Activity No. ACC20210001

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:

14 May 2021

Effective Date: **July 1, 2021**
Expiration Date: **June 30, 2022**
Certificate Number: **03069**



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

CA Laboratories LLC
AI Number: 165918
Activity No. ACC20210001
Expiration Date: June 30, 2022

Effective Date: July 1, 2021

12232 Industriplex Blvd Ste 32, Baton Rouge, Louisiana 70809

Certificate Number: 03069

Air Emissions

Analyte	Method Name	Method Code	Type	AB
100173 - Asbestos by Phase Contrast Microscopy	NIOSH 7400 (A Rules)	899	State	LA
100171 - Asbestos by Transmission Electron Microscopy	EPA Level II Contract #68-02-3266	2020	NVLAP	LA
100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA
100230 - Lead in Airborne Dust	NIOSH 7082, Rev.2	90012230	State	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	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
1075 - Lead	EPA 7000B	10157707	State	LA
100231 - Lead in Paint	EPA 7000B	10157707	State	LA
100233 - Lead in Soil	EPA 7000B	10157707	State	LA
100232 - Lead in Wipes	EPA 7000B	10157707	State	LA
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA
100171 - Asbestos by Transmission Electron Microscopy	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: 200772-0

CA Labs L.L.C.
Baton Rouge, LA

*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).*

2021-01-01 through 2021-12-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program