

# ACME

ENVIRONMENTAL

3816 CARLISLE NE | ALBUQUERQUE, NM | 87107

## **PROJECT REPORT**

### **INVESTIGATION OF SUSPECT ASBESTOS CONTAINING MATERIALS**



**101 BROADWAY  
ALBUQUERQUE, NEW MEXICO**

*Prepared by*  
**ACME ENVIRONMENTAL, INC**  
**3816 CARLISLE NE**  
**ALBUQUERQUE, NM**



## Site Investigation

April 13, 2017

**ATTENTION:** Fred Gorenz  
**SUBJECT:** Asbestos investigation  
**PROJECT LOCATION:** 101 Broadway, ABQ, NM  
**ACME PROJECT #:** 17-022

Mr. Gorenz:

*Acme Environmental, Inc. (Acme) has completed investigations of the occurrence of asbestos in building materials at the facility located at 101 Broadway in Albuquerque, New Mexico.*

### **SCHEDULED WORK**

*Acme performed bulk sampling of the following suspect materials;*

- Drywall systems*
- Ceiling drywall systems*
- Sheet vinyl flooring*
- Ceiling tile*

*Brett Engel (AHERA Accredited Asbestos Inspector) conducted the survey.*

### **SAMPLING**

**NO** *Asbestos was detected in bulk samples of the following;*

- Drywall systems*
- Ceiling drywall systems*
- Sheet vinyl flooring*
- Vinyl tile*
- Ceiling tile*

### **CONCLUSIONS**

*No asbestos was identified in the material sampled. If construction activities impact materials other than what has been sampled, asbestos content must be determined.*

*Asbestos containing materials must be properly controlled and/or removed prior to construction services that will impact them or create dust.*

*A sampling report follows. Please contact our office at (505) 433-4461 if any additional information is required.*

Respectfully,  
Acme Environmental, Inc.

Brett Engel  
President / CEO Industrial Hygiene Technician  
Acme Environmental, Inc.

# ASBESTOS INSPECTION

## ***Introduction***

Acme Environmental, Inc. (Acme) was contracted by Goodman Realty to conduct an Asbestos Survey at the cited property near downtown Albuquerque, New Mexico. The survey was conducted on April 13, 2017. Acme conducted the survey in accordance with EPA National Emission Standard for Hazardous Air Pollutants (NESHAP).

Acme performed asbestos bulk sampling in substantial compliance with the established 40 CFR 763 sampling protocol and requirements set forth in OSHA's 29 CFR 1926.1101. Mr. Brett Engel (US EPA AHERA-accredited Asbestos Inspector) conducted the survey.

## ***Property Information***

The facility contains offices, a kitchen and a gymnasium-type recreational space.

The facility is stucco finished on concrete construction. Floors are concrete. Interiors are finished drywall. Suspended ceilings are present. The roof was not investigated.

Acme investigated materials scheduled to be disturbed during renovation operations. Exteriors and mechanical systems were not investigated.

## ***Asbestos-Containing Materials (ACM)***

Based on the analytical data reported, none of the following materials were found to contain greater than 1% asbestos and therefore ARE NOT considered asbestos containing materials (ACM).

*Drywall systems  
Ceiling drywall systems  
Sheet vinyl flooring  
Ceiling tile*

*Additionally;*

- 1. The 4'x4' ceiling tiles in the main recreational/gym area were examined in the original product packaging. They are determined as non-asbestos materials.*
- 2. Floor tile within the main recreational/gym area were examined in the original product packaging. They are determined as non-asbestos materials*

## **Asbestos Bulk Sample Analysis**

Bulk samples were collected and submitted to an independent laboratory to be analyzed using Polarized Light Microscopy (PLM) in accordance with the U.S. Environmental Protection Agency "Method for the Determination of Asbestos in Bulk Samples" (EPA 600/R-93/116, July 1993). Crisp Analytical Laboratories, Carrollton, TX performed the analysis. Crisp is accredited for asbestos analysis under the National Voluntary Laboratory Accreditation Program (NVLAP), accreditation #200349-0.

Laboratory results can be found in the Appendix of this report.

**Analysis Method:** The analytical method chosen to identify asbestos within the bulk sample was the Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600/R-93/116).

**Preparation Method:** Hydrochloric Acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

## **Asbestos Data**

Results for asbestos content as reported in the comprehensive inspection report are interpreted in the following manner.

Samples were collected after the accredited inspector inventoried suspect materials. These materials were identified as to their homogeneity, specifically; materials that are considered the same, for example floor tile or ceiling plaster are sampled in a representative manner. That is, a specified number of samples are collected from each homogenous material. This is dictated by the EPA sampling rules.

These homogenous materials are grouped for analysis by the laboratory. If a single sample of a homogenous material is found to contain greater than 1% asbestos, then that homogenous material is considered asbestos containing.

## **Conclusions**

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials are NOT considered ACM in the relative facility.

- Drywall Systems
- Vinyl tile
- Sheet vinyl
- Ceiling tile

## **Asbestos-Containing Materials (ACM)**

No asbestos containing materials (ACM) were identified relative to the samples collected.

If, ACM was present those materials may remain in or on a facility if no activities are performed that will impact them or generate dust. It is recommended to have a defined asbestos management plan to ensure that the materials are properly maintained.

Prior to demolition or renovation, materials found to contain greater than 1% asbestos and considered ACM that will be impacted during activities must be removed and segregated from the general waste stream by a qualified asbestos contractor.

These materials cannot be disposed in a regular landfill in the State of New Mexico.

## ***Project Report Limitations***

**Note:** Materials identified by Acme were estimated quantities. Licensed contractors should conduct visual inspections to determine actual materials, quantities and cost estimates for abatement purposes. Acme attempted to inspect all suspect asbestos-containing building materials observed during this survey; other suspect materials may still exist in areas not readily accessible or identifiable.

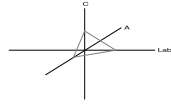
The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area.

Acme's opinions and recommendations regarding environmental conditions, as presented in this report, are based on visual inspection and limited sampling only. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated.

This report is intended exclusively for use by the clients. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

**CA Labs**  
Dedicated to  
Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



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

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Acme Environmental**

3816 Carlisle NE  
Albuquerque, NM 87107

Attn: Brett Engel

Customer Project: 17-022, First Baptist 101 Broadway

Reference #: CAL17042160JD

Date: 4/18/2017

#### **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.**

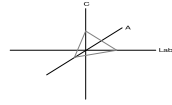
#### **Qualifications**

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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

**CA Labs**  
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**Crisp Analytical, L.L.C.**  
 1929 Old Denton Road  
 Carrollton, TX 75006  
 Phone 972-242-2754  
 Fax 972-242-2798



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## Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>	17-022, First Baptist 101 Broadway	<b>CA Labs Project #:</b>	CAL17042160JD
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
			List of Affected Building Material Types

**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**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: Brett Engel  
**Acme Environmental**  
3816 Carlisle NE  
Albuquerque, NM 87107

**Customer Project:**  
17-022, First Baptist 101  
Broadway  
**Turnaround Time:**  
24 Hours

**CA Labs Project #:**  
CAL17042160JD  
**Date:** 4/18/2017  
**Samples Received:** 4/14/17 10:30am  
**Date Of Sampling:** 4/13/2017  
**Purchase Order #:**

Phone # 505-872-2263  
Fax # 505-889-8261

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
01DW1		01D W1-1		<b>Drywall System (Splatter Tex)/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
02DW1		02D W1-1		<b>Drywall System (Splatter Tex)/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
03DW1		03D W1-1		<b>Drywall System (Splatter Tex)/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
01CT1		01CT 1-1		<b>Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
		01CT 1-2		<b>tan ceiling tile</b>	y	<b>None Detected</b>	63% ce 37% fg	
02CT1		02CT 1-1		<b>Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
		02CT 1-2		<b>tan ceiling tile</b>	y	<b>None Detected</b>	69% ce 31% fg	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

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:



Julio Robles  
Analyst



QAC  
Leslie Crisp, P.G.

Technical Manager  
Chad Lytle

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



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**Purchase Order #:**

Phone # 505-872-2263  
 Fax # 505-889-8261

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
03CT1		03CT 1-1		<b>Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
		03CT 1-2		<b>tan ceiling tile</b>	y	<b>None Detected</b>	65% ce 35% fg	
				<b>Drywall System (Knock Down</b>				
01DW2		01D W2-1		<b>Tex/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
				<b>Drywall System (Knock Down</b>				
02DW2		02D W2-1		<b>Tex/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
				<b>Drywall System (Knock Down</b>				
03DW2		03D W2-1		<b>Tex/ white surfaced white compound</b>	n	<b>None Detected</b>		100% mi,bi,ca
				<b>Sheet Vinyl (Old Small</b>				
01SV1		01SV 1-1		<b>Section)/ tan linoleum with woven backing</b>	y	<b>None Detected</b>	26% ce	74% gy,ma
				<b>Sheet Vinyl (Old Small</b>				
02SV1		02SV 1-1		<b>Section)/ tan linoleum with woven backing</b>	y	<b>None Detected</b>	22% ce	78% gy,ma

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**AIHA LAP, LLC Laboratory #102929**

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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:



Julio Robles  
 Analyst



QAC  
 Leslie Crisp, P.G.

Technical Manager  
 Chad Lytle

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9. < 1% Result point counted positive
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**Samples Received:** 4/14/17 10:30am  
**Date Of Sampling:** 4/13/2017  
**Purchase Order #:**

Phone # 505-872-2263  
 Fax # 505-889-8261

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
03SV1		1-1		<b>Sheet Vinyl (Old Small Section)/ tan linoleum with woven backing</b>	y	<b>None Detected</b>	24% ce	76% gy,ma
01SV2		2-1		<b>Sheet Vinyl (Middle Section)/ tan linoleum</b>	y	<b>None Detected</b>	25% ce	75% gy,ma
02SV2		2-1		<b>Sheet Vinyl (Middle Section)/ tan linoleum</b>	y	<b>None Detected</b>	22% ce	78% gy,ma
03SV2		2-1		<b>Sheet Vinyl (Middle Section)/ tan linoleum</b>	y	<b>None Detected</b>	23% ce	77% gy,ma
01SV3		3-1		<b>Sheet Vinyl (Large Area)/ tan linoleum</b>	y	<b>None Detected</b>	25% ce	75% gy,ma
02SV3		3-1		<b>Sheet Vinyl (Large Area)/ tan linoleum</b>	y	<b>None Detected</b>	26% ce	74% gy,ma
03SV3		3-1		<b>Sheet Vinyl (Large Area)/ tan linoleum</b>	y	<b>None Detected</b>	24% ce	76% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

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	

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 Analyst



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0417042160

**BULK SAMPLE CHAIN OF CUSTODY**

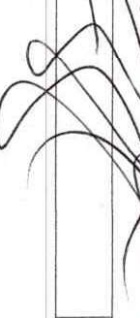
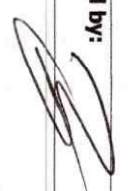
Acme Client: **Goodman Realty** Project #: **17-022** Sampled by (print): **Brett Engel**

Project Name: **First Baptist** Project Location: **101 Broadway** Sample Date: **4/13/17** Page 1 of 2

Sample Number	Material Description	Sample Location	Material Type (Misc., Surf, Tst)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
01DW1	Drywall system (splatter tex)	Main walls	Misc	NF		PLM			
02DW1	Drywall system (splatter tex)	Main walls	Misc	NF		PLM			
03DW1	Drywall system (splatter tex)	Main walls	Misc	NF		PLM			
01CT1	Ceiling Tile	Offices	Misc	F		PLM			
02CT1	Ceiling Tile	Offices	Misc	F		PLM			
03CT1	Ceiling Tile	Offices	Misc	F		PLM			
01DW2	Drywall system (knock down tex)	Ceiling in storage	Misc	NF		PLM			
02DW2	Drywall system (knock down tex)	Ceiling in storage	Misc	NF		PLM			
03DW2	Drywall system (knock down tex)	Ceiling in storage	Misc	NF		PLM			
01SV1	Sheet vinyl (old small section)	(old small section)	Misc	NF		PLM			
02SV1	Sheet vinyl (old small section)	(old small section)	Misc	NF		PLM			
03SV1	Sheet vinyl (old small section)	(old small section)	Misc	NF		PLM			

Special Instructions To Laboratory: **POSITIVE STOP Point count (except floor tile) between 1-10% email results [acmebrettengel@gmail.com](mailto:acmebrettengel@gmail.com)**

Turn around time requested:  24 Hour

Relinquished by:  Date/time: **4/13/17** Received by:  Date/time: **4/14/17 10:30am**



3816 CARLISLE NE | ALBUQUERQUE, NM | 87107

CA 17042160

### BULK SAMPLE CHAIN OF CUSTODY

Acme Client: **Goodman Realty**

Sampled by (print): **Brett Engel**

Project Name: **First Baptist**

Project #: **17-022**

Project Location: **101 Broadway**

Sample Date: **4/13/17**

Page 2 of 2

Sample Number	Material Description	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
01SV2	Sheet vinyl (middle section)	(middle section)	Misc	NF		PLM			
02SV2	Sheet vinyl (middle section)	(middle section)	Misc	NF		PLM			
03SV2	Sheet vinyl (middle section)	(middle section)	Misc	NF		PLM			
01SV3	Sheet vinyl (large area)	(large area)	Misc	NF		PLM			
02SV3	Sheet vinyl (large area)	(large area)	Misc	NF		PLM			
03SV3	Sheet vinyl (large area)	(large area)	Misc	NF		PLM			
						PLM			
						PLM			
						PLM			
						PLM			
						PLM			
						PLM			

Special Instructions To Laboratory: **POSITIVE STOP Point count (except floor tile) between 1-10% email results [acmebrettengel@gmail.com](mailto:acmebrettengel@gmail.com)**

Turn around time requested:  24 Hour

Relinquished by:		Date/time:	4/13/17 2:30	Received by:		Date/time:	4/14/17 10:30 AM
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This certifies successful  
completion of the approved 4 hour training course.

**Brett Engel**

**Asbestos Inspector Refresher**

For the purposes of accreditation required under  
TSCA Title II and AHERA

In compliance with the State of Louisiana regulation.

Conducted by

**Acme Environmental, Inc.**  
**3816 Carlisle NE**  
**Albuquerque, NM 87107**  
**(505) 433-4461**

Course Date: \_\_\_\_\_ 01/20/2017

Expires On: \_\_\_\_\_ 01/20/2018

Course Director: \_\_\_\_\_ 



Certificate Number: \_\_\_\_\_ 012017-12