

Lead-based Paint and Asbestos Investigation

Old County Courthouse Santa Fe, NM



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ACME PROJECT NUMBER 13-161

11/08/13

Date:

Project Leader

Quality Control Reviewed:

Signed: Brett Engel

Brett Engel EPA Accredited Asbestos Inspector EPA Certified Risk Assessor Signed: <u>Debbie Real</u>

Date: 11/08/13

Debbie Real, EPA Certified Risk Assessor



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PROJECT SUMMARY

Asbestos Containing Materials

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials <u>are considered ACM</u> in the facility.

- Vinyl tile (not mastic) in select bathroom and closet locations (see drawings). Total of approximately 2000 sq ft.
- Roof sealant/asphalt. Assumed total of approximately 25,000 sq ft.
- Fire doors are assumed to be asbestos containing.

Lead Materials

Based on the analytical data derived from the samples analyzed, the following homogeneous materials <u>are considered Lead Containing</u> in the facility.

• All brass handrails and base plates.

Radon

Based on the analytical data derived from the samples analyzed, Radon levels within the crawlspace are 6.6 pCi/L. This level exceeds the EPA recommended acceptable level of 4 pCi/L.

LEAD-BASED PAINT INVESTIGATION

Part 1: Identifying Information

The following lead-based paint (LBP) investigation was conducted at the Old County Courthouse in Santa Fe, New Mexico. It was conducted in an effort to identify the presence of lead-based paint and or lead-containing materials.

The Public Works office of Santa Fe County contracted Acme Environmental Inc. to conduct the investigation of the designated property.

Debbie Real an EPA certified Lead-based Paint Risk Assessor performed this investigation on October 9, 2013. Sampling was performed in substantial compliance with the jointly published EPA/HUD protocols for housing. Paint was sampled by x-ray fluorescence (XRF).

Part II: Environmental Results and Analyses

XRF Testing Report

Based on sampling, only brass hand rails and base plates (unpainted) indicated lead content. No other materials sampled were identified as having lead-based paint.

LEAD-BASED PAINT (LBP) is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm² lead when analyzed by XRF.

Lead <u>containing</u> paint *is* present within the remainder of the facility. However, the lead content is very low according to the XRF. It is reasonable to believe that lead content is insignificant relative to exposure potential when standard construction methods are utilized

LEAD-CONTAINING PAINT (PAINT WITH LEAD BUT NOT CONSIDERED LEAD-BASED PAINTED) OSHA regulates occupational exposure to lead containing materials during construction activities. Any occurrence of lead in construction materials could be potentially hazardous during activities that may impact a lead containing material.

XRF SAMPLING PROTOCOL

The Radiation Monitoring Devices LPA-1TM XRF (X-Ray Fluorescence) provides near instant results of lead content. Since this technique does not harm the sample in any way, it is considered a non-destructive testing method.

The instrument was operated in Quick Mode – The measurement time is determined by the LPA-1 Analyzer to achieve a 95% confidence in accordance with guidelines established by HUD and EPA.

Test results are classified on the data sheets, under HUD guidelines, into three categories: Positive (for lead-based paint), Inconclusive (for lead-based paint), and Negative (for lead-based paint). Note: Lead content may still be present in a Negatively classified sample.

For the purpose of this survey if any readings test inconclusive (0.9 to 1.2 mg/cm²) they will be reported as positive.

Operation of the *Radiation Monitoring Devices LPA-1TM XRF* was consistent with HUD and EPA documented methodologies and the Performance Characteristic Sheet.

Part III: Recommendations and Executive Summary

Lead painted materials

Based on sampling, Acme considers the following materials to contain significant lead;

All brass hand rails and base plates

These materials are fully salvageable and can be reclaimed or recycled with no compliance requirements regarding the disposal of lead.

XRF DATA SUMMARIES REPORT LEGEND

The following abbreviations are defined in context of the XRF data summaries that follow. Please note the wall location information. This is represented on the site plan and is essential in locating the areas that the samples were analyzed.

- *Read No.* Reading Number Is the sequential number of the actual sample.
- *Lead(mg/cm²)* The reading as analyzed by the XRF. A reading of 1.0 mg/cm² is considered *Positive* for Lead-based Paint by the Environmental Protection Agency.
- *Rm No.* Room Number is an arbitrary number assigned to the specific room where samples are collected.
- *Room Name* Room identifier established by the inspector based on best judgment.
- *Wall* Walls are identified by letters. The "A" wall is generally the main entry side of the building. Walls are then identified in a clockwise fashion.
- **Structure** Establishes the general height at which the wall sample was taken. This might be "baseboard" height, or "Chair rail" height. This also may identify the specific component that was sampled.
- *Component* This is the identified part of a component, such as a window sill or a door casing.
- *Location* "U" for upper or "L" for lower. "Lft" for left, "Rgt" for right, "Ctr" for center.
- *Condition* Paint condition is identified as "I" for intact, "F" for fair and "P" for poor.
- *XRF Mode* Function mode of the XRF. "Std." Is standard mode. "QM" is quick mode. "TC" is time corrected. Quick mode is the preferred method for speed and reliability.
- *Substrate* This is the suspected construction material.
- Color Inspector's judgment

Acme Environmental Inc. EPA Certified Lead Firm # NM-02-022003-2085

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	10/09/13
Report Date:	10/11/2013
Abatement Level:	1.0
Report No.	10/09/13 13:07
Total Readings:	125
Job Started:	10/09/13 13:07
Job Finished:	10/09/13 16:32

lead		Room			Paint						Lead			
lo.	No.	Name	Wall	Structure	Locat	ion	Member	Cor	nd	Substrate	Color	(mg/cm ²)	Mode	
1		CALIBRATION										0.4	Std	
2		CALIBRATION										0.2	Std	
3		CALIBRATION										0.0	Std	
											Average		oca	
4		CALIBRATION										1.0	Std	
5		CALIBRATION										1.1	Std	
6		CALIBRATION										0.9	Std	
											Average		btu	
7		Main Entry		Partition		Ctr			I	Wood	Red	0.2	QM	
8		Main Entry	B	Partition		Ctr				Drywall	White	0.0	QM	
9		Main Entry		Wall	υ	Ctr	4			Plaster	White	-0.2	QM	
10		Main Entry		Closet			Door		_	Wood	White	-0.1	QM	
11		Main Entry		Closet		-	Door Cas	-			White	0.0	QM	
12		Rm 190		Wall	υ	Ctr				Plaster	Pink	0.0	QM	
13		Rm 190		Door			Rgt casi	ing	Ι	Metal	Tan	0.1	QM	
14		Wmns Rm		Wall	σ	Ctr			Ι	Drywall	White	0.0	QM	
15		Wmns Rm		Ceiling						Drywall	White	-0.1	QM	
16		Rm 140		Wall	υ	Ctr	1222 101 2210			Plaster	White	0.0	QM	
17		Rm 191		Door			U Lft			Wood	Tan	0.0	QM	
18		Rm 191		Door			Rgt casi	2		Metal	Tan	-0.1	QM	
19 20		Rm 143		Wall	σ	Ctr				Drywall	White	-0.1	QM	
20		Rm 143		Door			Rgt casi	-		Metal	Brown	-0.1	QM	
22		Rm 144		Wall	0	Ctr	-			Drywall	White	0.0	QM	
23		Rm 144 Rm 144		Closet			Door			Wood	Beige	-0.1	QM	
24		Rm 144		Closet			Door Cas	-			Beige	-0.1	QM	
25		Rm 144		Wall Closet	U	Ctr	-			Drywall	White	-0.2	QM	
26		Rm 144	-	Wall	**	-	Door Cas	-			Brown	0.0	QM	
27		Rm 144		Door	0	Ctr	7.64			Drywall	White	-0.1	QM	
28		Rm 144	-	Door			Lft casi U Lft	-		Metal	Brown	-0.1	QM	
29		Rm 134		Wall	TT	Ctr	0 LLC			Wood	Varnish		QM	
30		Rm 134		Closet	0		Door			Drywall Wood	Yellow	0.0	QM	
31		Rm 134		Closet			Door Cas				Yellow	0.0	QM	
32		Rm 130		Wall	TT	Ctr	JUOL CAS	-		Plaster	Yellow White	0.3	MQ	
33		Rm 103	-	Wall		Ctr				Drywall	White	-0.1	QM	
34		Rm 103	_	Door	0		Rgt casi			Metal			QM	
35		Rm 108	-	Wall	TT	Ctr	inge edst	_		Drywall	Beige White	0.0	MQ	
36		Snack Bar		Wall	-	Ctr				Drywall	Beige	-0.1	MQ	
37		Snack Bar		Ceiling	5					Drywall	White	0.3	MQ MQ	
38		Snack Bar		Door		Ctr	Rgt casi			Metal	Gray	-0.1	QM	
39		Spec.Serv.		Wall	U	Ctr	- go oubr			Drywall	White	0.2	OM	
40		Spec.Serv.		Door			Rgt casi			Wood	White	0.2	QM	
		Spec.Serv.		Shelf					-		TATT CE	0.0	Sur	

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SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

ead lo.	No.	Room Name	Wall	Structure	Locat	ion		aint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
				d								
42	014	Rm 178	С	Wall	υ	Ctr		I	Plaster	White	-0.1	QM
43	014	Rm 178	в	Door		Ctr	Rgt casing	JI	Metal	Brown	0.0	QM
44		Fileroom	С	Wall	υ	Ctr		I	Drywall	White	0.2	QM
45		Fileroom	D	Door		Ctr	Lft casing	JI	Metal	Cream	0.1	QM
46		Rm 170	С	Wall	υ	Ctr		I	Drywall	White	-0.3	QM
47		Rm 170		Door		Ctr	Rgt casing	JI	Metal	Cream	-0.1	QM
48		Hallway		Wall		Lft		I	Plaster	White	0.0	QM
49		Hallway		Wall		Lft			Plaster	Red	0.1	QM
50		Hallway		Wall		Lft			Plaster	Brown	0.0	QM
51 52		Hallway		Wall		Lft			Plaster	Tan	-0.2	QM
53		Rm 150 Rm 158		Wall Wall		Ctr			Drywall	White	-0.2	QM
54		Rm 158		Door	0	Ctr			Plaster	Tan	-0.1	QM
55		Rm 156		Wall	TT	Ctr	Lft casing		Metal Plaster	Brown	0.3	QM
56		Rm 154		Wall		Ctr			Drywall	White	-0.1	QM
57		Rm 154	_	Closet	0		Door		Wood	White	0.1	QM QM
58		Rm 154		Closet			Door Casir			White	-0.1	QM
59	022	Rm 164		Wall	υ	Ctr		-	Drywall	White	-0.1	QM
60	022	Rm 164	D	Closet		Ctr	Door		Wood	White	-0.1	QM
61		Rm 164	D	Closet		Lft	Door Casir	ng I	Metal	White	-0.1	QM
62		Rm 162	D	Wall	U	Ctr		I	Drywall	White	-0.1	QM
63		Jail		Wall	υ	Rgt		I	Plaster	White	0.3	QM
64		Jail		Bars		Ctr		I	Steel	White	0.2	QM
65		Jail		Door			Lft casing		Metal	White	-0.1	QM
66		Hallway		Window			Lft casing		Metal	White	-0.1	QM
67		Hallway		Door			Lft casing	-	Wood	White	0.0	QM
68 69		Hallway Hallway		Door			Header	_	Wood	White	0.3	QM
70		Hallway		Railing Railing			Balusters		Metal	Black	0.3	QM
71		Hallway		Railing			Railing L railing		Metal	Gold	5.3	QM
72		2nd Hall		Wall	TT	Ctr	n rarring		Metal Plaster	Gold	>9.9	QM
73		Rm 270B		Wall		Ctr			Drywall	White	-0.1	MQ MQ
74		Rm 270B		Door	0		Rgt casing		Metal	White	0.1	QM
75	027	Jury		Wall	υ	Ctr	ngo odožný		Drywall	Brown	-0.2	QM
76	028	Rm 210	С	Wall	υ	Ctr			Plaster	White	-0.1	QM
77	029	Rm 254	С	Wall	υ	Ctr			Drywall	Pink	-0.2	QM
78	029	Rm 254	D	Closet		Ctr	Door	I	Wood	Pink	0.0	QM
79		Rm 254	D	Closet		Rgt	Door Casin	g I	Metal	Pink	0.1	QM
80		Rm 254		Door			Lft casing	I	Metal	Brown	0.0	QM
81		Rm 253		Wall		Ctr			Drywall	White	-0.2	QM
82		Rm 252		Wall		Ctr			Plaster	White	-0.1	QM
83 84		Rm 259 Rm 259		Wall	σ	Ctr			Drywall	White	-0.1	QM
85		Rm 259 Rm 259		Door Door			U Lft		Wood	White	-0.1	QM
86		Rm 220		Door Wall	17	Ctr	Lft casing		Metal	White	0.2	QM
87		Rm 269		Wall		Ctr			Drywall Drywall	White White	0.1	QM
88		Rm 269	-	Chair rail		Ctr			Drywall	Red Line	-0.1	QM
89		Rm 213		Wall		Ctr			Drywall	White	-0.1	QM QM
90		Rm 213		Closet	0		Door		Metal	White	0.0	QM
91	035	Rm 213		Closet			Door Casin			White	-0.2	QM
92	036	Rm 209		Wall	υ	Ctr		-	Drywall	White	-0.1	QM
93	037	Rm 260	в	Wall		Ctr			Drywall	Pink	-0.2	QM
94		Rm 240		Wall	υ	Ctr			Drywall	Pink	0.0	QM
95		Rm 238		Wall	υ	Ctr			Drywall	Pink	0.3	QM
96	039	Rm 238	CI	Door		Ctr	Lft casing	I	Metal	Brown	-0.2	QM

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SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

	Rm	Room						aint				Lead	
No.	No.	Name	Wall	Structure	Locat	ion	Member	Cor	nd s	Substrate	Color	(mg/cm²)	Mode
97	040	Rm 236	с	Wall	U	Ctr			II	Drywall	White	-0.2	OM
98	041	Rm 244	C	Wall	U	Ctr				Drywall	White	-0.1	QM
99	041	Rm 244	C	Closet		Ctr	Door			Wood	White	0.1	QM
100	041	Rm 244	C	Closet			Door Casi				White	-0.4	QM
101	041	Rm 244	A	Window			Lft casin			Nood	White	-0.2	QM
102	042	Rm 200	С	Wall	υ	Ctr				Drywall	White	-0.3	OM
103	043	Rm 201	C	Wall	υ	Ctr				Drywall	Yellow	0.1	OM
104	043	Rm 201	C	MirrorCase	6	Ctr				Wood	Yellow	-0.2	OM
105	043	Rm 201	D	Fuse Box		Ctr				Metal	Red	-0.4	QM
106	044	Rm 200	A	Window		Ctr	Rgt casin			letal	White	0.0	OM
107	001	Building	A	Wall	υ	Lft	2	-		Stucco	White	0.6	OM
108	001	Building	A	Wall	L	Lft				Stucco	Red	-0.1	QM
109	001	Building	A	Wall	L	Lft				Stucco	Brown	0.1	OM
110		Building	A	Column		Ctr	U column		IW	food	White	-0.3	QM
111		Building	B	Window		Ctr	Lft casino	a	IM	letal	White	-0.1	QM
112		Building	B	Support		Ctr			IW	lood	White	0.0	QM
113		Building	D	Door		Ctr	U Lft			fetal	White	0.3	OM
114	001	Building	D	Door		Ctr	Lft casing	g	IM	fetal	White	0.1	QM
115		Building		Post		Ctr		:	IW	lood	White	0.2	Std
116		Building		Post		Ctr		- 0	ΙW	lood	White	-0.1	Std
117	001	Building	D	Post		Ctr		- 3	IW	lood	White	0.3	Std
											Average	= 0.1	
118	025	2nd Hall	A	Ceiling					тw	lood	White	0.0	QM
119	025	2nd Hall	A	Support		Ctr				lood	White	0.2	QM
120		CALIBRATION										-0.1	Std
121		CALIBRATION										0.0	Std
122		CALIBRATION										0.0	Std
											Average	= -0.0	
123		CALIBRATION										0.3	Std
124		CALIBRATION											Std
125		CALIBRATION											Std
											Average :		

---- End of Readings ----

Acme Lead-based Paint Inspection $\ensuremath{\mathcal{O}}$



ASBESTOS INSPECTION

Part IV: Introduction

The Public Works office of Santa Fe County contracted Acme Environmental, Inc. (Acme) to conduct an Asbestos Survey at the Old County Courthouse Santa Fe, New Mexico. The survey was conducted on October 9, 2013. Acme conducted the survey in accordance with EPA National Emission Standard for Hazardous Air Pollutants (NESHAP).

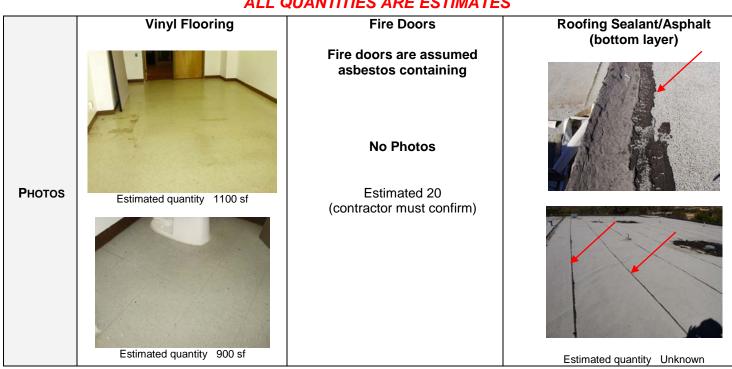
Acme performed asbestos bulk sampling in substantial compliance with the established 40 CFR 763 sampling protocol and requirements set forth in OSHA's 29 CFR 1926.1101. Brett Engel (US EPA AHERA-accredited Asbestos Inspector) conducted the survey.

Part V: Property Information

All accessible suspect asbestos-containing building materials were the focus of the survey to accommodate future renovation/demolition activities.

The two story facility with flat roof has a stucco exterior. Finished plaster systems make up the walls. Vinyl flooring is utilized in some of the facility. Carpet on concrete is present in most other areas. Suspended ceilings are present. No visible fireproofing was observed. Thermal system insulation is present on steam pipes.

Part VI: Asbestos-Containing Materials (ACM)



ALL QUANTITIES ARE ESTIMATES

Part VII: 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.

Part VIII: Conclusions

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials <u>are considered ACM</u> in the facility.

• Vinyl tile (not mastic) in select bathroom and closet locations (see drawings). Total of approximately 2000 sq ft.

• Roof sealant/asphalt. The quantity is difficult to estimate without significantly damaging the roof. If the sealant was used only at seams, the amount is significantly lower than the entire roof surface area. Further evaluation is recommended before abatement/demolition. However, it is prudent to assume the entire roof is asbestos containing. Total of approximately 25,000 sq ft.

• Fire doors are assumed to be asbestos containing.

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

- Plaster
- Vinyl floor tile and mastic (not otherwise noted as ACM)
- Ceiling tile
- Window caulking and glazing
- Exterior stucco
- Thermal system insulation
- Cove base
- Composite roof material

Project Report Limitations

Note: Materials identified by Acme were <u>estimated</u> 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. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

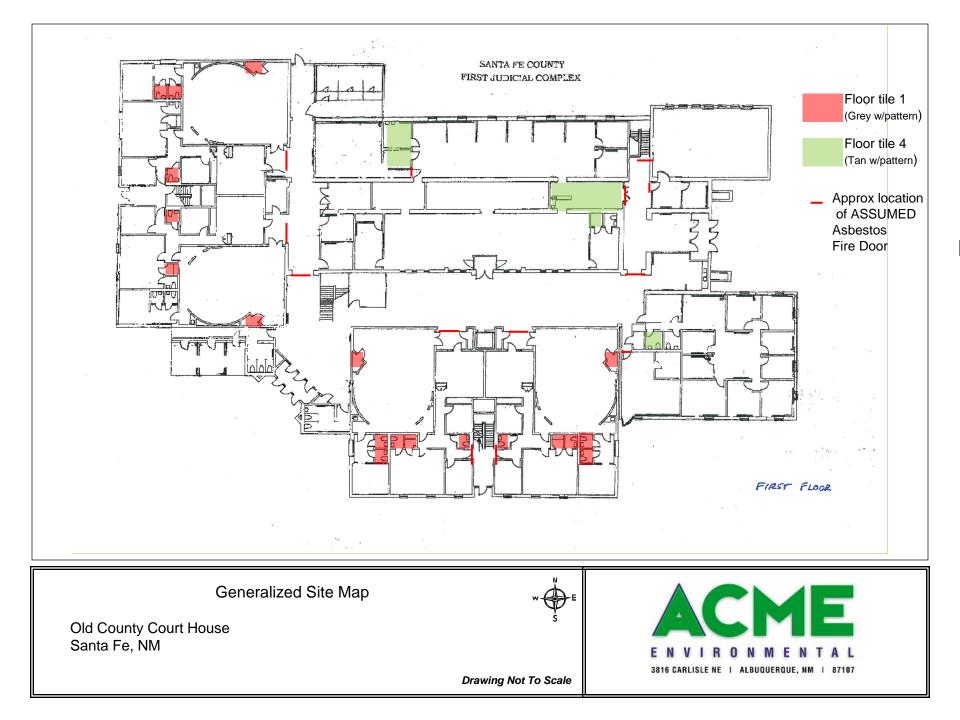
Acme's opinions and recommendations regarding environmental conditions, as presented in this report, are based on visual inspection and limited sampling only. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated.

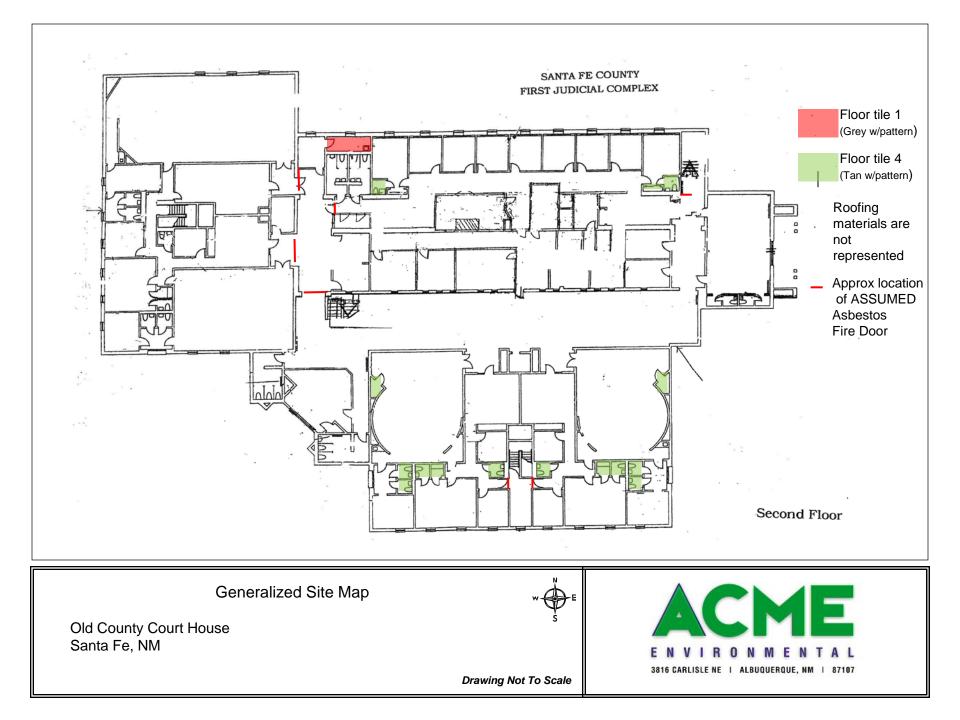
Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of activities at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme has no control.

This documents intended use is only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

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.

Appendix







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ect Location:	Santa Fe, NM				Sam	mple Date: 10/9/13			Page of	
mple Number	Component	Sample Location	Material Type	F/NF	Est. Qty.	Analysis	1st	2nd	Comment	
01FT1	Grey w/ptn Floor tile	• 	(Misc., Surf, Tsi) Misc	NF		Type PLM	Results	Results		
;	······································	· · · · · · · · · · · · · · · · · · ·		ļ			<u>.</u>	ļ		
02FT1	Grey w/ptn Floor tile		Misc	NF		PLM				
03FT1	Grey w/ptn Floor tile		Misc	NF		PLM				
04FT2	White w/red bl ptn Floor tile		Misc	NF		PLM				
05FT2	White w/red bl ptn Floor tile		Misc	NF		PLM		+ · · · · · · · · · · · · · · · · · · ·		
06FT2	White w/red bl ptn Floor tile		Misc	NF		PLM		••••••••••••••••••••••••••••••••••••••		
07FT3	White w/blu ptn floor tile		Misc	NF		PLM		+		
08FT3	White w/blu ptn floor tile		Misc	NF		PLM				
09FT3	White w/blu ptn floor tile		Misc	NF		PLM				
10FT4	Tan w/ptn floor tile	· · · · · · · · · · · · · · · · · · ·	Misc	NF		PLM				
11FT4	Tan w/ptn floor tile		Misc	NF		PLM				
12FT4	Tan w/ptn floor tile	· · · · · · · · · · · · · · · · · · ·	Misc	NF		PLM	·,	··· ·· ·		
cial Instructio	ons To Laboratory: POSITIVE ST	•	ept floor tile) b acmebrettengel			⁄o email r	esults	1		
around time	requested: Standard	(3-5 day)								
quished by:	*		teceived by:	-			Date/	time	··· ··	

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· · · · · · · · · · · · · · · · · · ·	Environmental, Inc.		··· ···			pled by (pr pled by (sig	int): Breti	t Engel	1. .		
· · · · · · · · · · · · · · · · · · ·	Santa Fe, NM	··· ··· · · · · · · · · · · · · · · ·			Sam	ple Date: 1	0/9/13		Page of T		
Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsí)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments		
13FT5	Cream w/ptn floor tile		Misc	NF		PLM		1			
14FT5	Cream w/ptn floor tile		Misc	NF	;	PLM					
15FT5	Cream w/ptn floor tile		Misc	NF		PLM					
16FT6	Lt Blue Floor tile		Misc	NF		PLM		•			
17FT6	Lt Blue Floor tile		Misc	NF		PLM		·			
18FT6	Lt Blue Floor tile		Misc	NF		PLM	···· <u>····</u> ···· · ·				
19FT7	Brown floor tile	··· · ·	Misc	NF	 	PLM					
20FT7	Brown floor tile		Misc	NF		PLM					
21FT7	Brown floor tile		Misc	NF		PLM			···· ··· · ·		
22FT8	White floor tile		Misc	NF		PLM					
23FT8	White floor tile	· •••• ••• · ••• • ••• •	Misc	NF		PLM					
24FT8	White floor tile		Misc	NF		PLM					
irn around time		NEW EMAIL ard (3-5 day)	cept floor tile) b acmebrettengel			o email r		۱	l		
linquished by:	Da	te/time: $C(1-1)$	Received by:	2/-			Date/	(time: 6/1)	13 10:30		



oject Name/N	a.: 13-161 Old Courthou	use			Sam	pled by (sig	in):	- (- 7	1			
oject Location:	Santa Fe, NM				Sam	Sample Date: 10/9/13						
ample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments			
25FT9	Dk brown floor tile		Misc	NF		PLM						
26FT9	Dk brown floor tile		Misc	NF		PLM		+ · · ·				
27FT9	Dk brown floor tile		Misc	NF		PLM		•				
28FT10	Grey floor tile	·····	Misc	NF		PLM		•				
29FT10	Grey floor tile		Misc	NF	• <u></u>	PLM	·		· · · · · · · · · · · · · · · · · · ·			
30FT10	Grey floor tile	· · · · · · · · · · · · · · · · · ·	Misc	NF		PLM						
31FT11	Black tile	· ·	Misc	NF		PLM	······					
32FT11	Black tile		Misc	NF		PLM		<u>}···</u>				
33FT11	Black tile		Misc	NF		PLM						
34FT12	White tile		Misc	NF		PLM		+ ·				
35FT12	White tile	······································	Misc	NF		PLM		+ · · · · · · · · · · · · · · · · · · ·				
36FT12	White tile		Misc	NF		PLM		↓ · · · · · · · · · · · · · · · · · · ·	·· ·· ································			

Relinquished by: Date/time: 10/11/13 = 10.32

CAL13109847



Client: ACME	Environmental, Inc.				Sam	pled by (pi	int): Brett	Engel	·.
Project Name/N	a.: 13-161 Old Courtho	ouse			Sam	pled by (sig	in):	(/	
Project Location	Santa Fe, NM	··· · · · · · ·	· . · · · ·		Sam	ple Date: 1	0/9/13	8	Page of
Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
37FT13	Pink tile		Misc	NF		PLM			
38FT13	Pink tile	····	Misc	NF	-	PLM		•••••••••••••••••••••••••••••••••••••••	
39FT13	Pink tile		Misc	NF		PLM			
40DW1	Drywall system		Misc	NF		PLM		* · · 	
41 DW1	Drywall system		Misc	NF	<u> </u>	PLM	<u></u>		
42DW1	Drywall system		Misc	NF		PLM			
43DW1	Drywall system		Misc	NF	1	PLM		·····	
44 DW1	Drywall system		Misc	NF	•··	PLM		• • • • • • • • • • • • • • • • • • • •	
45P1	Plaster Old bldg		Surf	NF		PLM		+	
46P1	Plaster Old bldg.		Surf	NF		PLM		-	· · · · · · ·
47P1	Plaster Old bldg.	· +	Surf	NF		PLM			+
48P1	Plaster Old bldg	· · · · · ·	Surf	NF		PLM			
Special Instruction	ons To Laboratory: POSITI	VE STOP Point count (ex	ccept floor tile) b	etwee	n 1-10%	6 email r	esults	l	

DP Point count (except floor tile) between 1-10% email results NEW EMAIL <u>acmebrettengel@GMAIL.com</u>

Turn around time requested: Standard (3-5 day) Date/time: Date/time: 10/11/17 10:30 ... Relinguished by:



•

	o.: 13-161 Old Courthouse	·				pled by (sig ple Date: 1		S.	Page of -
oject Location	Santa Fe, NM			, :	,		07 97 13	,	
ample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comment
49 P 1	Plaster Old bldg		Surf	NF		PLM			
50P1	Plaster Old bldg		Surf	NF		PLM			
51 P1	Plaster Old bldg		Surf	NF	±	PLM		i	
52P2	Plaster New bldg		Surf	NF	•	PLM			
53P2	Plaster New bldg.		Surf	NF	,	PLM	<u></u>	÷	
54P2	Plaster New bldg.		Surf	NF		PLM			
55P2	Plaster New bldg.		Surf	NF		PLM		·····	
56P2	Plaster New bldg.		Surf	NF	•	PLM		+	
57CT1	Ceiling tile (perp lg axis)	· · · · · · · · · · · · · · · · ·	Misc	F	• • • • • • •	PLM			
58CT1	Ceiling tile (perp lg axis)		Misc	F		PLM		•	· · · · · ·
59CT1	Ceiling tile (perp lg axis)		Misc	F	h	PLM			
60CT2	Ceiling tile (1x ptn)	· · · · · · · · · · · · · · · · · · ·	Misc	F		PLM		•· •· • • • •	
ecial Instructi	ons To Laboratory: POSITIVE		xcept floor tile) b acmebrettengel			o email r	esults	<u>!</u>	<u></u> I
rn around tim	e requested: " 🗇 Standa	rd (3-5 day)	-						

CAL13109847



BULK SAMPLE CHAIN OF CUSTODY

Client: Acme	Environmental, Inc.				Sam	pled by (pr	int): Brett	Engel	
Project Name/N	.: 13-161 Old Courthou	ISE			Sam	pled by (sig	in):		
Project Location	Santa Fe, NM				Sam	ple Date: 1	0/9/13	.\$	Page (of G
Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
61CT2	Ceiling tile (1x ptn)		Misc	F		PLM			
62CT2	Ceiling tile (1x ptn)		Misc	F		PLM			
63CT3	Ceiling tile (rdm)		Misc	F		PLM			
64CT3	Ceiling tile (rdm)		Misc	F	4 	PLM			
64CT3	Ceiling tile (rdm)		Misc	F		PLM			
65CT4	Ceiling tile (coarse)		Misc	F		PLM			
66CT4	Ceiling tile (coarse)		Misc	F		PLM		• • • • • • • • • • • • • • • • • • • •	
67CT4	Ceiling tile (coarse)	······································	Misc	F	•	PLM			,
68STU1	Ext stucco		Surf	F		PLM			
69STU1	Ext stucco		Surf	F		PLM			
70STU1	Ext stucco		Surf	F		PLM			······································
71STU1	Ext stucco	+	Surf	F	• • • •	PLM		ŧ =	

POSITIVE STOP Point count (except floor tile) between 1-10% email results NEW EMAIL <u>acmebrettengel@GMAIL.com</u>

🔨 Standard (3-5 day) Turn around time requested: Date/time: Date/time: Received by: **Relinguished by:** . Cogn 10.300-13

Special Instructions To Laboratory:



Project Name/No	a: 13-161 Old Courthou	ISE		•••••	Sam	pled by (sig	n):	- to	eren en e				
	Santa Fe, NM	···· ···· · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Sample Date: 10/9/13								
Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments				
72STU1	Ext stucco		Surf	F		PLM							
73STU1	Ext stucco		Surf	F		PLM							
74STU1	Ext stucco	· · · · · · · · · · · · · · · · · · ·	Surf	F		PLM							
75WG	Window glazing		Misc	NF		PLM							
76WG	Window glazing	·	Misc	NF	} !	PLM	-,) · ·	}				
77WG	Window glazing	+	Misc	NF		PLM	<u> </u>		+				
78WC	Window caulking	· · · · · · · · · · · · · · · · · · ·	Misc	NF		PLM			·				
79WC	Window caulking	· · · · · · · · · · · · · · · · ·	Misc	NF	:	PLM		·····					
80WC	Window caulking	<u></u>	Misc	NF	+	PLM		· · · · <u></u>	·				
81TSI	Pipe fitting	· · · · · · · · · · · · · · · · ·	TSI	NF		PLM			+ · · · · · · · · · · · ·				
82TSI	Pipe fitting	••••••••••••••••••••••••••••••••••••••	TSI	NF		PLM		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·				
83T5I	Pipe fitting		TSI	NF		PLM			+				
ipecial Instructio	requested:	•	ept floor tile) b acmebrette ng el			o email r	esults		I				
Kelinquished by:	25	Date/time: (G(+C)/13) G(+)	eceived by:	2			Date/	time: 6/11	13 10:30				



iect Name/N	o.: 13-161 Old Courtho	use			Sam	pled by (sig	n):		\mathcal{C}
ect Location	Santa Fe, NM				Sample Date: 10/9/13				
nple Number	Component	Sample Location	Material Type (Misc., Surf, Tsí)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comment
84TSI	Pipe fitting		<i>T5I</i>	NF		PLM			
85TSI	Pipe fitting		TSI	NF		PLM	·		
86RS	Roof sealant	Top layer	Misc	NF	i	PLM			
87RS	Roof sealant		Misc	NF		PLM			
88RS	Roof sealant		Misc	NF	• • •	PLM			
89RS2	Roof sealant	Bottom layer	Misc	NF		PLM			- ···
90RS2	Roof sealant		Misc	NF		PLM			
91RS2	Roof sealant		Misc	NF	+ =· ·· ···	PLM	<u>.</u>		
2ROOF	Roof		Misc	NF	í	PLM			İ
3ROOF	Roof	······································	Misc	NF		PLM		· · · · · · · · · · · · · · · · · · ·	
94ROOF	Roof		Misc	NF	 : 	PLM		···	•
95CB1	Brown cove base	· · · · · · · ·	Misc	NF	.	PLM		• • • • • • • •	- · · · ·
cial Instructio	ons To Laboratory: POSITI		ccept floor tile) b			o email r	esults	· · ··. ··	
around time	e requested: 🛛 🕺 📈 Star	n dard (3 -5 day)							



CAL13109847

Client: ACME	e Environmental, Inc.				Sam	Sampled by (print): Brett Engel					
Project Name/N	Io.: 13-161 Old Courthol	use			Sam	Sampled by (sign):					
Project Location	n: Santa Fe, NM	· · · · · · · · · · · · · · · · · · ·	Sam	ple Date: 1	0/9/13	6	Page of S				
Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st R <u>es</u> ults	2nd Results	Comments		
96CB2	Red cove base		Misc	NF		PLM					
97CB3	Violet cove base	· · · ·	Misc	NF		PLM					
98CB4	Grey cove base		Misc	NF		PLM			·····		
99CB5	Dk cove base		Misc	NF		PLM		··			
100CB6	Dk Blue cove base	· · · · · · · · · · · · · · · · · · ·	Misc	NF	· ·	PLM		······································			
101CB7	Blue Cove base		Misc	NF		PLM					
102 CB8	Pink cove base		Misc	NF	· · ··································	PLM			···· ··· ··· ···		
pecial Instruct			xcept floor tile) b acmebrettengel				results				
lelinquished by		Date/time: (3)(-1) + (5)	Received by:	N			Date/	time: [0]	11/13 10:3		

Dedicated to Quality

CA Labs

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

Date:

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Acme Environmental

3816 Carlisle NE Albuquerque, NM 87107 Attn: David PaezCustomer Project:13-161, Old CourthouseReference #:CAL13109847NT

10/16/13

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 preformed. Calibrated liquid refractive oils are used as liquid mouting 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 conjugation 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 of 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 be 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 delectable 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 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 EPA H20 TX 01402 TDH 30-0235 AIHA LAP, LLC Laboratory #102929 **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

Customer Project	:	13-161, Old Courthouse		CA Labs Project #: CAL13109847NT
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
	01FT			black streaked gray floor tile
01FT1	1-3	black streaked gray floor tile	3% Chrysotile	_ tan floor tile black tar
	10FT			
10FT4	4-1	tan floor tile	3% Chrysotile	_
	89RS			
89RS2	2-1	black tar	5% Chrysotile	_

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235 AIHA LAP, LLC Laboratory #102929

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

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other pe - perlite qu - quartz

mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite

ka - kaolin (clay)

fg - fiberglass

pa - palygorskite (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.

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

	vironmental	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Phone # Fax #	sie NE ue, NM 87107 505-872-22 505-889-82	61	Turnar 3 Day	, Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30am 10/09/13
Sample #	Com Layer ment #	 Analysts Physical Description of Subsample 	Homo geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
01FT1	01FT 1-1	gray streaked gray floor tile	у	None Detected		100% qu,ca
	01FT 1-2	black mastic with black felt	n	None Detected	63% ce	37% mi,ma
	01FT 1-3	black streaked gray floor tile	У	3% Chrysotile		97% qu,ca
02FT1	02FT 1-1	black streaked gray floor tile		Positive Stop		
	02FT 1-2	tan mastic	у	None Detected		100% mi,ma
03FT1	03FT 1-1	black streaked gray floor tile		Positive Stop		
	03FT 1-2	tan mastic	<u>y</u>	None Detected		100% mi,ma
	Preparat	Analysis Method: Interim (40CFR Par ion Method: HCL acid washing for carbonate bas	P, LLC La rt 763 Appendix sed samples, c	boratory #102929 x E to Subpart E) / Improved (hemical reduction for organica persion attaining / becke line m ss ce - cellulo	EPA-600 / R-93/116) ally bound components, oil immersion fo nethod. pse	or
		bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	wo - wollas ta - talc sy - synthet	pa - palygo	Appro	oved Signatories:
1. Fire Damage sign	nificant fiber damage - re	Keith Malone Analyst		6. Anthophyllite in association wit	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle
 Fire Damage no Actinolite in asso 	significant fiber damages iciation with Vermiculite ed - attached to previous	effecting fibrous percentages		7. Contamination suspected from	other building materials eparation on vermiculite for possible analysis b	y another method

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	61	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	f Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
04FT2	04FT 2-1	white floor tile	у	None Detected		100% qu,ca
	04FT 2-2	tan mastic	у	None Detected		100% mi,ma
05FT2	05FT 2-1	white floor tile	У	None Detected		100% qu,ca
	05FT 2-2	tan mastic	у	None Detected		100% mi,ma
06FT2	06FT 2-1	white floor tile	у	None Detected		100% qu,ca
	06FT 2-2	tan mastic	У	None Detected		100% mi,ma
07FT3	07FT 3-1	white floor tile	у	None Detected		100% qu,ca
	Preparati	Analysis Method: Interim (40CFR Pa ion Method: HCL acid washing for carbonate ba	P, LLC Lai art 763 Appendix used samples, cl	boratory #102929 x E to Subpart E) / Improved (EI nemical reduction for organicall ersion attaining / becke line me ss ce - cellulos al wool br - brucite	PA-600 / R-93/116) y bound components, oil immersion fo thod. e clay)	or oved Signatories:
		ma - matrix qu - quartz	sy - synthet	ic	ell, po	
		Keith Malone Analyst ported percentages reflect unaltered fibers		 Anthophyllite in association with 1 Contamination supported from at 	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle
3. Actinolite in asso	ciation with Vermiculite ed - attached to previous	effecting fibrous percentages positive layer and contamination is suspected		 Contamination suspected from of 8. Favorable scenario for water sep 9. < 1% Result point counted posit 10. TEM analysis suggested 	aration on vermiculite for possible analysis by	v another method

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironn		David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 505-8	87107 372-226 389-826			Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	f Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
		07FT 3-2	tan mastic	у	None Detected		100% mi,ma
08FT3		08FT 3-1	white floor tile	у	None Detected		100% qu,ca
		08FT 3-2	tan mastic	у	None Detected		100% mi,ma
09FT3		09FT 3-1	white floor tile	у	None Detected		100% qu,ca
		09FT 3-2	tan mastic	у	None Detected		100% mi,ma
10FT4		10FT 4-1	tan floor tile	у	3% Chrysotile		97% qu,ca
	4,5	10FT 4-2	tan mastic Dallas NVLAP Lab Code 200349- AIHA I A		1 EPA H20 TX 01		
		Preparati	Analysis Method: Interim (40CFR Pa on Method: HCL acid washing for carbonate ba	rt 763 Appendix sed samples, ch	E to Subpart E) / Improved nemical reduction for organ ersion attaining / becke line	I (EPA-600 / R-93/116) ically bound components, oil immersion fo e method.	or
			gypsum - gypsum ve - vermiculite bi - binder ot -other or - organic pe - perlite ma - matrix qu - quartz	mw - minera wo - wollast ta - talc sy - syntheti	al wool br - bruc inite ka - kao pa - paly	ite in (clay)	oved Signatories:
			H Mil			el., pa	
2. Fire Damage no 3. Actinolite in asso	significant fib iciation with V ed - attached	er damages e 'ermiculite I to previous	Keith Malone Analyst borted percentages reflect unaltered fibers offecting fibrous percentages bositive layer and contamination is suspected		 Anthophyllite in association 1 Contamination suspected fr Favorable scenario for water <1% Result point counted TEM analysis suggested 	m other building materials separation on vermiculite for possible analysis by	Technical Manager Chad Lytle

CA Labs

1929 Old Denton Road Carrollton, TX 75006 Phone 972-242-2754 Fax 972-242-2798

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironm		David Paez	Custom	er Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 8 505-8	37107 72-226 89-826			Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com ment	Layer #	Analysts Physical Description o Subsample	f Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
11FT4		11FT 4-1	tan floor tile		Positive Stop		
	4,5	11FT 4-2	tan mastic				
12FT4		12FT 4-1	tan floor tile		Positive Stop		
	4,5	12FT 4-2	tan mastic				
13FT5		13FT 5-1	tan floor tile	у	None Detected		100% qu,ca
		13FT 5-2	tan mastic	У	None Detected		100% mi,ma
14FT5		14FT 5-1	tan floor tile	у	None Detected		100% qu,ca
		Preparatio	Analysis Method: Interim (40CFR Pa on Method: HCL acid washing for carbonate ba	P, LLC Lak art 763 Appendix ased samples, ch	E to Subpart E) / Improved (E temical reduction for organical ersion attaining / becke line m ss ce - cellulos I wool br - brucite inite ka - kaolin (pa - palygon	PA-600 / R-93/116) ly bound components, oil immersion fo ethod. se clay)	or oved Signatories:
			Keith Malone Analyst			QAC Leslie Crisp, P.G.	Technical Manage Chad Lytle
 Fire Damage no Actinolite in asso 	significant fibe ciation with Ve ed - attached	r damages e rmiculite	orted percentages reflect unaltered fibers iffecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with Contamination suspected from o Favorable scenario for water sep < 1% Result point counted posi TEM analysis suggested 	ther building materials paration on vermiculite for possible analysis by	r another method

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	vironmental	David Paez	Custom	er Project:	CA Labs Project #: CAL13109847NT	
Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	61	Turnard 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical De Subsample	scription of Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	14FT 5-2	tan mastic	У	None Detected		100% mi,ma
15FT5	15FT 5-1	tan floor tile	У	None Detected		100% qu,ca
	15FT 5-2	tan mastic	У	None Detected		100% mi,ma
16FT6	16FT 6-1	blue floor tile	у	None Detected		100% qu,ca
	16FT 6-2	tan mastic	У	None Detected		100% mi,ma
17FT6	17FT 6-1	blue floor tile	У	None Detected		100% qu,ca
	17FT 6-2	tan mastic	У	None Detected		100% mi,ma
	Preparati	Analysis Method: Interi on Method: HCL acid washing for identifica ca - carbonate mi - mi	AIHA LAP, LLC Lab im (40CFR Part 763 Appendix carbonate based samples, ch tion of asbestos types by dispe ca fg - fiberglas rmiculite mw - minera er wo - wollasti orlite ta - talc	E to Subpart E) / Improved (Ei emical reduction for organical ersion attaining / becke line me ss ce - cellulos I wool br - brucite inite ka - kaolin (pa - palygor	PA-600 / R-93/116) ly bound components, oil immersion fo thod. e clay)	r ved Signatories:
		lf Mul			QAC	
2. Fire Damage no s 3. Actinolite in asso	significant fiber damages o ciation with Vermiculite ed - attached to previous	Keith Malon Analyst ported percentages reflect unaltered fibe effecting fibrous percentages	ərs	 Anthophyllite in association with Contamination suspected from o Favorable scenario for water sep 1% Pesult point counted position TEM analysis suggested 	Leslie Crisp, P.G. Fibrous Talc ther building materials varation on vermiculite for possible analysis by	Technical Manager Chad Lytle another method

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Customer Acme En 3816 Carlis	vironmental	David Paez	Customer Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	505-872-226 505-889-826	51	13-161, Old Courthouse Turnaround Time: 3 Day	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	of Homo- Asbestos type / geneo calibrated visual us estimate percent (Y/N)	Non-asbestos fiber type / percent	Non-fibrous type / percent
18FT6	18FT 6-1	blue floor tile	y None Detected		100% qu,ca
	18FT 6-2	tan mastic	y None Detected		100% mi,ma
19FT7	19FT 7-1	brown floor tile	y None Detected		100% qu,ca
	19FT 7-2	tan mastic	y None Detected		100% mi,ma
20FT7	20FT 7-1	brown floor tile	y None Detected		100% qu,ca
	20FT 7-2	tan mastic	y None Detected		100% mi,ma
21FT7	21FT 7-1	brown floor tile	y None Detected		100% qu,ca
	Preparati	Analysis Method: Interim (40CFR P on Method: HCL acid washing for carbonate b	AP, LLC Laboratory #102929 Part 763 Appendix E to Subpart E) / Improved (based samples, chemical reduction for organic stos types by dispersion attaining / becke line i fg - fiberglass ce - cellul mw - mineral wool br - brucit wo - wollastinite ka - kaolir	EPA-600 / R-93/116) ally bound components, oil immersion fo nethod. sse a (clay)	
		ma - matrix qu - quartz	sy - synthetic	Costile (Clay) Appro	ved Signatories:
		Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages	 Anthophyllite in association wi Contamination suspected from 	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle

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Customer Acme En 3816 Carlis	vironmental	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-22 505-889-82	63 61	Turnar 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	r Analysts Physical Description of Subsample	Homo geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	21FT 7-2	tan mastic	у	None Detected		100% mi,ma
22FT8	22FT 8-1	white floor tile	у	None Detected		100% qu,ca
	22FT 8-2	tan mastic	у	None Detected		100% mi,ma
23FT8	23FT 8-1	white floor tile	у	None Detected		100% qu,ca
	23FT 8-2	tan mastic	у	None Detected		100% mi,ma
24FT8	24FT 8-1	white floor tile	у	None Detected		100% qu,ca
	24FT 8-2	tan mastic	у	None Detected		100% mi,ma
	Preparat	Analysis Method: Interim (40CFR Par ion Method: HCL acid washing for carbonate bas	P, LLC Lal t 763 Appendix sed samples, ch	boratory #102929 E to Subpart E) / Improved (EF remical reduction for organically ersion attaining / becke line me ss ce - celluloss al wool br - brucite inite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fo thod. e slay)	r oved Signatories:
2. Fire Damage no 3. Actinolite in asso	significant fiber damages ociation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from of Favorable scenario for water sepp < 1% Result point counted positi TEM analysis suggested 	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	: David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	61	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	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
25FT9	25FT 9-1	brown floor tile	у	None Detected		100% qu,ca
	25FT 9-2	black mastic	у	None Detected		100% mi,ma
26FT9	26FT 9-1	brown floor tile	у	None Detected		100% qu,ca
	26FT 9-2	black mastic	у	None Detected		100% mi,ma
27FT9	27FT 9-1	brown floor tile	у	None Detected		100% qu,ca
	27FT 9-2	black mastic	у	None Detected		100% mi,ma
28FT10	28FT 10-1	gray floor tile	у	None Detected		100% qu,ca
	Preparati	Analysis Method: Interim (40CFR Par ion Method: HCL acid washing for carbonate bas	P, LLC Lal t 763 Appendix sed samples, ch	boratory #102929 E to Subpart E) / Improved (EF remical reduction for organically ersion attaining / becke line me ss ce - celluloss I wool br - brucite inite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fo thod. e	r wed Signatories:
2. Fire Damage no 3. Actinolite in asso	significant fiber damages iciation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with F Contamination suspected from ot Favorable scenario for water sepp <1% Result point counted positi TEM analysis suggested 	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	: David Paez	Customer	Project:	CA Labs Project #: CAL13109847NT	
	505-872-226 505-889-826		13-161, Ol Turnaroui 3 Day	ld Courthouse nd Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #		geneo	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	28FT 10-2	tan mastic	у N	one Detected		100% mi,ma
29FT10	29FT 10-1	gray floor tile	у N	lone Detected		100% qu,ca
30FT10	30FT 10-1	gray floor tile	у N	one Detected		100% qu,ca
	30FT 10-2	tan mastic	y N	lone Detected		100% mi,ma
31FT11	31FT 11-1	black floor tile	y N	lone Detected		100% qu,ca
32FT11	32FT 11-1	black floor tile	у N	one Detected		100% qu,ca
33FT11	33FT 11-1	black floor tile	,	lone Detected		100% qu,ca
	Preparati	Dallas NVLAP Lab Code 200349- AIHA LAI Analysis Method: Interim (40CFR Pa on Method: HCL acid washing for carbonate ba identification of asbesto ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot -other	P, LLC Labor rt 763 Appendix E to sed samples, chemi	ical reduction for organically on attaining / becke line me ce - cellulose bol br - brucite	A-600 / R-93/116) / bound components, oil immersion fo thod.	r
		or - organic pe - perlite ma - matrix qu - quartz	ta - talc sy - synthetic	pa - palygors		oved Signatories:
		Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages		Anthophyllite in association with F Contamination suspected from oth	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle
3. Actinolite in asso	ciation with Vermiculite ed - attached to previous	positive layer and contamination is suspected	8. F 9.		ration on vermiculite for possible analysis by	r another method

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Customer Acme En 3816 Carlis	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
	505-872-226 505-889-826	51		Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
34FT12	34FT 12-1	white floor tile	у	None Detected		100% qu,ca
	34FT 12-2	black mastic	у	None Detected		100% mi,ma
35FT12	35FT 12-1	white floor tile	y	None Detected		100% qu,ca
	35FT 12-2	black mastic	у	None Detected		100% mi,ma
36FT12	36FT 12-1	white floor tile	у	None Detected		100% qu,ca
	36FT 12-2	black mastic	у	None Detected		100% mi,ma
37FT13	37FT 13-1	pink floor tile	У	None Detected		100% qu,ca
	Preparati	Analysis Method: Interim (40CFR Parl on Method: HCL acid washing for carbonate bas identification of asbestos ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot -other or - organic pe - perlite	P, LLC Lal t 763 Appendix ed samples, ct s types by disp fg - fiberglas mw - minera wo - wollast ta - talc	boratory #102929 E to Subpart E) / Improved (EF remical reduction for organically ersion attaining / becke line me ss ce - celluloss al wool br - brucite inite ka - kaolin (c pa - palygors	A-600 / R-93/116) / bound components, oil immersion fo thod. 9	r oved Signatories:
		ma - matrix qu - quartz	sy - synthet	IC	QAC	
1. Fire Damage sig	nificant fiber damage - rer	Keith Malone Analyst		6. Anthophyllite in association with F	Leslie Crisp, P.G.	Technical Manager Chad Lytle
 Fire Damage no Actinolite in asso 	significant fiber damages e ociation with Vermiculite ed - attached to previous	offecting fibrous percentages		7. Contamination suspected from oth	her building materials aration on vermiculite for possible analysis by	another method

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Customer Acme En 3816 Carlis	vironmental	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-22 505-889-82	61	Turnar 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	 Analysts Physical Description Subsample 	n of Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	37FT 13-2	tan mastic	У	None Detected		100% mi,ma
	37FT 13-3		у	None Detected		100% qu,ca
38FT13	38FT 13-1		У	None Detected		100% qu,ca
	38FT 13-2	tan mastic	у	None Detected		100% mi,ma
	38FT 13-3		у	None Detected		100% qu,ca
39FT13	39FT 13-1	pink floor tile	у	None Detected		100% qu,ca
	39FT 13-2	tan mastic	У	None Detected		100% mi,ma
	Preparat	Analysis Method: Interim (40CFR ion Method: HCL acid washing for carbonate	AP, LLC Lai Part 763 Appendix based samples, ch	boratory #102929 k E to Subpart E) / Improved (El hemical reduction for organicall version attaining / becke line me ss ce - cellulos al wool br - brucite tinite ka - kaolin (i pa - palygor	PA-600 / R-93/116) y bound components, oil immersion fo thod. e clay)	or oved Signatories:
 Fire Damage no Actinolite in asso 	significant fiber damages iciation with Vermiculite ed - attached to previous	Keith Malone Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with 1 Contamination suspected from of 8. Favorable scenario for water sep 9. < 1% Result point counted positi 10. TEM analysis suggested 	ther building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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Customer Acme En 3816 Carlis	vironmental	David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqi Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51	Turnar 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description o Subsample	f Homo geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	39FT 13-3	white leveling compound	У	None Detected		100% qu,ca
40DW1	40DW 1-1	, white surfaced white compour	nd n	None Detected		100% mi,bi,ca
41DW1	41DW 1-1	, white surfaced white compour	nd n	None Detected		100% mi,bi,ca
42DW1	42DW 1-1	, white surfaced white compour	nd n	None Detected		100% mi,bi,ca
43DW1	43DW 1-1	, white surfaced white compour	nd n	None Detected		100% mi,bi,ca
	43DW 1-2	, white drywall with brown pape	r n	None Detected	22% ce	78% qu,gy
44DW1	44DW 1-1	white surfaced white compour		None Detected		100% mi,bi,ca
	Preparati	Analysis Method: Interim (40CFR Pa on Method: HCL acid washing for carbonate ba	P, LLC La art 763 Appendix ased samples, c	boratory #102929 k E to Subpart E) / Improved (Ef hemical reduction for organical version attaining / becke line me ss ce - cellulos al wool br - brucite tinite ka - kaolin (i pa - palygor	PA-600 / R-93/116) y bound components, oil immersion fo thod. e clay)	or oved Signatories:
		H Mul			QAC	
2. Fire Damage no 3. Actinolite in asso	significant fiber damages ciation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with 7. Contamination suspected from ot Favorable scenario for water sep < 1% Result point counted posit TEM analysis suggested 	Leslie Crisp, P.G. Fibrous Talc ther building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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Customer Acme En 3816 Carlis	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
45P1	45P1- 1	white surfaced white compound	n	None Detected		100% mi,bi,ca
46P1	46P1- 1	white surfaced tan plaster	п	None Detected		100% qu,bi,ca
47P1	47P1- 1	white surfaced tan plaster	n	None Detected		100% qu,bi,ca
48P1	48P1- 1	white surfaced tan plaster	n	None Detected		100% qu,bi,ca
49P1	49P1- 1	white surfaced tan plaster	n	None Detected		100% qu,bi,ca
	49P1- 2	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
50P1	50P1- 1	white surfaced tan plaster	n	None Detected		100% qu,bi,ca
	Preparati	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate base	763 Appendix	boratory #102929 E to Subpart E) / Improved (EP nemical reduction for organically ersion attaining / becke line me ss ce - cellulose al wool br - brucite	PA-600 / R-93/116) / bound components, oil immersion fo thod. Ə	л
		or - organic pe - perlite ma - matrix qu - quartz	ta - talc sy - synthet	pa - palygors		oved Signatories:
2. Fire Damage no s 3. Actinolite in asso	significant fiber damages e ciation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers affecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from oth Favorable scenario for water sepa <1% Result point counted positi TEM analysis suggested 	QAC Leslie Crisp, P.G. ibrous Talc ner building materials tration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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Customer Acme En 3816 Carlis	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqı Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
51P1	51P1- 1	white surfaced tan plaster	п	None Detected		100% qu,bi,ca
52P2	52P2- 1	white surfaced tan plaster	п	None Detected		100% qu,bi,ca
53P2	53P2- 1	white surfaced white finishing plaster	n	None Detected		100% qu,bi,ca
	53P2- 2	brown plaster	у	None Detected		100% qu,ca
54P2	54P2- 1	white surfaced white finishing plaster	п	None Detected		100% qu,bi,ca
	54P2- 2	brown plaster	у	None Detected		100% qu,ca
55P2	55P2- 1	white surfaced white finishing plaster	п	None Detected		100% qu,bi,ca
	Preparati	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate base	763 Appendix ed samples, ch	boratory #102929 E E to Subpart E) / Improved (EF nemical reduction for organically ersion attaining / becke line me ss ce - celluloss al wool br - brucite inite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fo thod. e slay)	or oved Signatories:
 2. Fire Damage no 3. Actinolite in asso 	significant fiber damages e iciation with Vermiculite ed - attached to previous	Keith Malone Analyst borted percentages reflect unaltered fibers affecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from vith Favorable scenario for water seps <1% Result point counted positi TEM analysis suggested 	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51		Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	55P2- 2	brown plaster	у	None Detected		100% qu,ca
56P2	56P2- 1	white surfaced white finishing plaster	п	None Detected		100% qu,bi,ca
57CT1	57CT 1-1	white surfacing	У	None Detected		100% bi
	57CT 1-2	tan ceiling tile	у	None Detected	36% ce 64% fg	
58CT1	58CT 1-1	white surfacing	у	None Detected		100% bi
	58CT 1-2	tan ceiling tile	у	None Detected	33% ce 67% fg	
59CT1	59CT 1-1	white surfacing	У	None Detected		100% bi
	Preparati	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate bas	P, LLC Lal t 763 Appendix ed samples, ch	boratory #102929 E to Subpart E) / Improved (EP nemical reduction for organically ersion attaining / becke line met ss ce - cellulose al wool br - brucite	A-600 / R-93/116) bound components, oil immersion fo hod.	or oved Signatories:
		ma - matrix qu - quartz	sy - synthet	ic	EL, po	
1. Fire Damage sig	nificant fiber damage - rer	Keith Malone Analyst		6. Anthophyllite in association with Fi	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle
2. Fire Damage no 3. Actinolite in asso	significant fiber damages e iciation with Vermiculite ed - attached to previous j	offecting fibrous percentages		7. Contamination suspected from oth	er building materials ration on vermiculite for possible analysis b	/ another method

CA Labs

Dedicated to Quality 1929 Old Denton Road Carrollton, TX 75006 Phone 972-242-2754 Fax 972-242-2798

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	: David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
	Albuquerque, NM 87107 Phone # 505-872-2263 Fax # 505-889-8261		13-161, Old Courthouse Turnaround Time: 3 Day		Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30ar 10/09/13
Sample #	Com Layer ment #	r Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	59CT 1-2		у	None Detected	32% ce 68% fg	
60CT2	60CT 2-1	white surfacing	у	None Detected		100% bi
	60CT 2-2	tan ceiling tile	у	None Detected	34% ce 66% fg	
61CT2	61CT 2-1	white surfacing	у	None Detected		100% bi
	61CT 2-2	tan ceiling tile	У	None Detected	31% ce 69% fg	
62CT2	62CT 2-1	white surfacing	у	None Detected		100% bi
	62CT 2-2	tan ceiling tile	у	None Detected	35% ce 65% fg	
	Preparat	Analysis Method: Interim (40CFR Par ion Method: HCL acid washing for carbonate bas	P, LLC Lal rt 763 Appendix sed samples, ch	boratory #102929 te to Subpart E) / Improved (EP nemical reduction for organically ersion attaining / becke line met ss ce - cellulose al wool br - brucite	A-600 / R-93/116) / bound components, oil immersion f /hod.	for
		or - organic pe - perlite ma - matrix qu - quartz	ta - talc sy - synthet	pa - palygors		oved Signatories:
2. Fire Damage no s 3. Actinolite in assoc	significant fiber damages ciation with Vermiculite	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with F Contamination suspected from oth Favorable scenario for water sepa <1% Result point counted position 	QAC Leslie Crisp, P.G. ibrous Talc ner building materials ration on vermiculite for possible analysis t	Technical Manager Chad Lytle

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	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
3816 Carlis Albuquerqu Phone # Fax #	sle NE ue, NM 87107 505-872-226 505-889-826	51	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30ar 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description Subsample	of Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
63CT3	63CT 3-1	white surfacing	y	None Detected		100% bi
	63CT 3-2	tan ceiling tile	У	None Detected	32% ce 68% fg	
64CT3	64CT 3-1	white surfacing	y	None Detected		100% bi
	64CT 3-2	tan ceiling tile	y	None Detected	36% ce 64% fg	
65CT3	65CT 3-1	white surfacing	у	None Detected		100% bi
	65CT 3-2	tan ceiling tile	у	None Detected	31% ce 69% fg	
65CT4	65CT 4-1	white surfacing	У	None Detected		100% bi
	Preparati	Analysis Method: Interim (40CFR F on Method: HCL acid washing for carbonate b	AP, LLC Lak Part 763 Appendix based samples, ch	Booratory #102929 E to Subpart E) / Improved (EF nemical reduction for organically ersion attaining / becke line me ss ce - celluloss ul wool br - brucite inite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fr thod. 9	^{or} oved Signatories:
2. Fire Damage no s 3. Actinolite in asso	significant fiber damages ciation with Vermiculite ed - attached to previous	Keith Malone Analyst borted percentages reflect unaltered fibers affecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from oth Favorable scenario for water sepsion of the second position of the second p	her building materials aration on vermiculite for possible analysis b	Technical Manage Chad Lytle

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmenta	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
	ue, NM 87107 505-872-22 505-889-82	63		Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30ar 10/09/13
Sample #	Com Laye ment #	r Analysts Physical Description of Subsample	Homo geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	65C7 4-2	tan ceiling tile	у	None Detected	30% ce 70% fg	
66CT4	66C7 4-1	- white surfacing	у	None Detected		100% bi
	66C7 4-2	- tan ceiling tile	у	None Detected	31% ce 69% fg	
67CT4	67C7 4-1	- white surfacing	у	None Detected		100% bi
	67C1 4-2	- tan ceiling tile	у	None Detected	34% ce 66% fg	
68STU1	68ST U1-1	brown plaster	у	None Detected		100% qu,ca
69STU1	69ST U1-1	brown plaster	<u>y</u>	None Detected		100% qu,ca
	Preparal	Analysis Method: Interim (40CFR Par ion Method: HCL acid washing for carbonate bas	P, LLC Lal t 763 Appendix sed samples, ch	boratory #102929 E to Subpart E) / Improved (EP remical reduction for organically ersion attaining / becke line met ss ce - cellulose al wool br - brucite inite ka - kaolin (c) pa - palygors	A-600 / R-93/116) bound components, oil immersion fo hod.	r oved Signatories:
		H Mul			el, po	
		Keith Malone Analyst		6. Anthophyllite in association with Fi		Technical Manage Chad Lytle
3. Actinolite in asso	ciation with Vermiculite ed - attached to previous	effecting fibrous percentages		 Contamination suspected from oth Favorable scenario for water sepa < 1% Result point counted position TEM analysis suggested 	ration on vermiculite for possible analysis by	another method

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	: David Paez	Custon	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	61		, Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
70STU1	70ST U1-1	brown plaster	у	None Detected		100% qu,ca
71STU1	71ST U1-1	brown plaster	У	None Detected		100% qu,ca
72STU1	72ST U1-1	brown plaster	у	None Detected		100% qu,ca
73STU1	73ST U1-1	brown plaster	у	None Detected		100% qu,ca
74STU1	74ST U1-1	brown plaster	у	None Detected		100% qu,ca
75WG	75WG 1	- white caulking	у	None Detected		100% qu,bi,ca
76WG	76WG 1	white caulking	y	None Detected	2 TDH 20 0225	100% qu,bi,ca
	Preparati	Analysis Method: Interim (40CFR Part ion Method: HCL acid washing for carbonate bas identification of asbestos ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite	P, LLC La t 763 Appendix ed samples, c s types by disp fg - fibergla mw - minera wo - wollas ta - talc	boratory #102929 x E to Subpart E) / Improved (EF hemical reduction for organically persion attaining / becke line me iss ce - celluloss al wool br - brucite tinite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fo thod. e	or oved Signatories:
		ma - matrix qu - quartz	sy - synthei	iru	el., po	
		Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from otl 	QAC Leslie Crisp, P.G.	Technical Manager Chad Lytle
3. Actinolite in asso	ed - attached to previous	positive layer and contamination is suspected			aration on vermiculite for possible analysis by	v another method

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer Acme En 3816 Carlis	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
	505-872-226 505-889-826	51	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/09/13
Sample #	Com Layer ment #	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
77WG	77WG- 1	white caulking	у	None Detected		100% qu,bi,ca
78WC	78WC- 1	tan sealant	у	None Detected		100% bi
79WC	79WC- 1	tan sealant	у	None Detected		100% bi
80WC	80WC- 1	tan sealant	у	None Detected		100% bi
81TSI	81TSI- 1	tan covering	у	None Detected	71% fg	29% bi
	81TSI- 2	tan insulation	у	None Detected	2% fg 9% ce	89% qu,bi,ca
82TSI	82TSI- 1	tan covering	у	None Detected	68% fg	32% bi
	Preparatic	Analysis Method: Interim (40CFR Par on Method: HCL acid washing for carbonate bas	P, LLC Lal rt 763 Appendix sed samples, ch	boratory #102929 E to Subpart E) / Improved (EP, hemical reduction for organically ersion attaining / becke line met ss ce - cellulose al wool br - brucite inite ka - kaolin (cl pa - palygors)	A-600 / R-93/116) bound components, oil immersion hod. ay)	^{for} oved Signatories:
2. Fire Damage no 3. Actinolite in asso	significant fiber damages e ociation with Vermiculite	Keith Malone Analyst orted percentages reflect unaltered fibers (ffecting fibrous percentages		 Anthophyllite in association with Fi Contamination suspected from oth Favorable scenario for water sepa <1% Result point counted positiv 	er building materials ration on vermiculite for possible analysis l	Technical Manager Chad Lytle

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Acme En 3816 Carlis	vironmental	David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Albuquerqu Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51	Turnaro 3 Day	Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
	82TSI 2	tan insulation	у	None Detected	3% fg 11% ce	86% qu,bi,ca
83TSI	83TSI 1	- tan covering	У	None Detected	70% fg	30% bi
	83TSI 2	- tan insulation	у	None Detected	3% fg 15% ce	82% qu,bi,ca
84TSI	84TSI 1	tan covering	у	None Detected	85% fg	15% bi
	84TSI 2	- tan insulation	у	None Detected	4% fg 12% ce	84% qu,bi,or
85TSI	85TSI 1	tan covering	у	None Detected	4% fg 10% ce	86% qu,bi,ca
86RS	86RS- 1	black tar	у	None Detected	6% ce	94% qu,ma
	Preparati	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate bas	P, LLC Lal t 763 Appendix red samples, ch	boratory #102929 E to Subpart E) / Improved (EF hemical reduction for organically ersion attaining / becke line me ss ce - celluloss al wool br - brucite inite ka - kaolin (c pa - palygors	A-600 / R-93/116) / bound components, oil immersion fo thod. 9	or oved Signatories:
		Ht Mul	sy - synaneu		el. po	
 Fire Damage no Actinolite in asso 	significant fiber damages o ociation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with F Contamination suspected from oth Favorable scenario for water sepsition of the second se	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle y another method

Page 23 of 28

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Customer			David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Acme En 3816 Carlis		ientai				GAL1310904/101	
Albuquerqu		87107		10 101	Old Courthouse	Deter	10/16/13
Albuqueiqu		57 107			Old Courthouse	Date:	
Dhara //		70.000	20		ound Time:	Samples Received:	10/11/13 10:30am
Phone #		72-226		3 Day		Date Of Sampling:	10/09/13
Fax #		89-826			A 1	Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
87RS		87RS- 1	black tar	У	None Detected	7% ce	93% qu,ma
		88RS-					000/
88RS		1	black tar	У	None Detected	7% ce	93% qu,ma
89RS2		89RS 2-1	black tar	v	5% Chrysotile		95% qu,ma
				,	,		
		90RS					
90RS2		2-1	black tar		Positive Stop		
91RS2		91RS 2-1	black tar		Positive Stop		
92ROOF		92RO OF-1	black tar with black felt	n	None Detected	12% sy	88% qu,bi,ma
		93RO					
93ROOF		OF-1	<u> </u>		None Detected	6% sy	94% qu,bi,ma
			Dallas NVLAP Lab Code 200349-			TDH 30-0235	
		Preparati	Analysis Method: Interim (40CFR Par on Method: HCL acid washing for carbonate bas	rt 763 Appendix sed samples, ch	nemical reduction for organically b ersion attaining / becke line metho ss ce - cellulose	ound components, oil immersion fo	уr
			bi - binder ot -other or - organic pe - perlite	wo - wollast ta - talc	inite ka - kaolin (clay pa - palygorski	• •	oved Signatories:
			ma - matrix qu - quartz	sy - syntheti	ic	, ippic	vou elgnatorioe.
			Ht Mul			hh, po	
			Keith Malone			QAC	Technical Manager
			Analyst			Leslie Crisp, P.G.	Chad Lytle
 Fire Damage no s Actinolite in assoc 	significant fibe ciation with Ve d - attached	er damages e ermiculite	ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with Fibr Contamination suspected from other Favorable scenario for water separal <1% Result point counted positive TEM analysis suggested 	building materials tion on vermiculite for possible analysis by	v another method

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

	vironmental	: David Paez	Custom	ner Project:	CA Labs Project #: CAL13109847NT	
Phone # Fax #	505-872-226 505-889-826	61		Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	 Analysts Physical Description of Subsample 	Homo- geneo us (Y/N)		Non-asbestos fiber type / percent	Non-fibrous type / percent
94ROOF	94RO OF-1) black tar with black felt	п	None Detected	7% sy	93% qu,bi,ma
95CB1	95CB 1-1	brown cove base	у	None Detected		100% bi
	95CB 1-2	brown mastic	у	None Detected	3% wo	97% mi,ma
96CB2	96CB 2-1	maroon cove base	у	None Detected		100% bi
	96CB 2-2	tan mastic	У	None Detected		100% mi,ma
97CB3	97CB 3-1	purple cove base	у	None Detected		100% bi
	97CB 3-2	tan mastic	У	None Detected		100% mi,ma
	Preparati	Analysis Method: Interim (40CFR Part ion Method: HCL acid washing for carbonate bas identification of asbestos ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	P, LLC Lak t 763 Appendix ed samples, ch	boratory #102929 E to Subpart E) / Improved (EF remical reduction for organically ersion attaining / becke line me ss ce - celluloss al wool br - brucite inite ka - kaolin (c pa - palygors	PA-600 / R-93/116) y bound components, oil immersion fo thod. e slay) skite (clay) Appro	r wed Signatories:
2. Fire Damage no 3. Actinolite in asso	significant fiber damages ciation with Vermiculite ed - attached to previous	Keith Malone Analyst ported percentages reflect unaltered fibers effecting fibrous percentages positive layer and contamination is suspected		 Anthophyllite in association with F Contamination suspected from otl Favorable scenario for water sepz <1% Result point counted positi TEM analysis suggested 	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

	vironmental	David Paez	Custom	er Project:	CA Labs Project #: CAL13109847NT	
Phone # Fax #	ue, NM 87107 505-872-226 505-889-826	51		Old Courthouse ound Time:	Date: Samples Received: Date Of Sampling: Purchase Order #:	10/16/13 10/11/13 10:30an 10/09/13
Sample #	Com Layer ment #	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
	97CB 3-3	white compound	у	None Detected		100% mi,ca
98CB4	98CB 4-1	gray cove base	У	None Detected		100% bi
	98CB 4-2	tan mastic	у	None Detected		100% mi,ma
	98CB 4-3	white compound	У	None Detected		100% mi,ca
99CB5	99CB 5-1	black cove base	у	None Detected		100% bi
	99CB 5-2	tan and brown mastic	п	None Detected		100% mi,ma
100CB6	100C B6-1	blue cove base	у	None Detected		100% bi
		Dallas NVLAP Lab Code 200349-0			2 TDH 30-0235	
	Preparati	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate base identification of asbestos ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite	763 Appendix ed samples, ch s types by dispe fg - fiberglas mw - minera wo - wollasti ta - talc	emical reduction for organically ersion attaining / becke line me ss ce - celluloss I wool br - brucite inite ka - kaolin (c pa - palygors	y bound components, oil immersion fo thod. e slay)	r oved Signatories:
		ma - matrix qu - quartz	sy - syntheti	c	el, po	-
2. Fire Damage no s 3. Actinolite in assoc	ignificant fiber damages e siation with Vermiculite	Keith Malone Analyst borted percentages reflect unaltered fibers offecting fibrous percentages		 Anthophyllite in association with F Contamination suspected from ot Favorable scenario for water seps < 1% Result point counted positi 	her building materials aration on vermiculite for possible analysis by	Technical Manager Chad Lytle

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Acme En 3816 Carlis	vironm		David Paez	Custom	er Project:	CA Labs Project #: CAL13109847NT	
	Albuquerque, NM 87107			13-161,	Old Courthouse	Date:	10/16/13
				Turnaro	ound Time:	Samples Received:	10/11/13 10:30am
Phone #	505-8	72-226	3	3 Day		Date Of Sampling:	10/09/13
Fax #	x # 505-889-8261		51	•		Purchase Order #:	
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
		100C B6-2	tan mastic	у	None Detected		100% mi,ma
101CB7		101C B7-1	blue cove base	V	None Detected		100% bi
		101C B7-2	brown mastic	y	None Detected		100% mi,ma
102CB8		102C B8-1	pink cove base	y	None Detected		100% bi
		102C B8-2	tan and brown mastic	n	None Detected	2% wo	98% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 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) 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 gypsum - gypsum bi - binder or - organic ma - matrix

It the

mi - mica

ot -other

pe - perlite

qu - quartz

ve - vermiculite

Keith Malone

Analyst

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. Laver not analyzed - attached to previous positive laver and contamination is suspected 5. Not enough sample to analyze

Page 27 of 28

8. Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive

ce - cellulose

br - brucite

10. TEM analysis suggested

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

el.po

QAC

Technical Manager Chad Lytle

Leslie Crisp, P.G.

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

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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

Polarized Light Asbestiform Materials Point Count Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL 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.

Qualifications

89RS2

2-1

black tar

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. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info: Attn: David Paez Acme Environmental 3816 Carlisle NE			Customer Project:	CA Labs Project #: CAL13109847NT	
Albuquerq	ue, NM 87107		13-161, Old Courthouse Turnaround Time:	Date: Samples Received:	10/16/13 10/11/13 10:30am
Phone #	505-872-2263		3 Day	Date Of Sampling:	10/09/13
Fax #	505-889-8261			Purchase Order #:	
Sample #	Layer Analysts Physical # Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type		
	89RS				

3.75% Chrysotile

Dallas NVLAP Lab Code 200349-0 TEM/PLM

EPA H20 TX 01402

TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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 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

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Keith Malone Analyst

QAC Leslie Crisp, P.G.

Approved Signatories:

Technical Manager Chad Lytle



Radon Screening

Old County Courthouse Santa Fe, NM



PREPARED BY: ACME ENVIRONMENTAL, INC. 3816 CARLISLE NE ALBUQUERQUE, NM 87107 (505) 872-2263 FAX (505) 889-8261

ACME PROJECT NUMBER 13-161

Project Leader

Brett Enge

Quality Control Reviewed:

Signed:

Date: 10/22/13

Signed:

Debbie Real

Date: 10/22/13

Brett Engel EPA Accredited Asbestos Inspector EPA Certified Risk Assessor Debbie Real, EPA Certified Risk Assessor

Acme Radon Screening ©



Results of Radon Gas Screening

Acme utilized the PRO–LAB Professional Radon Gas Test Kit to screed the radon levels within two select areas of the Old Courthouse. The test method utilizes an advanced liquid scintillation, short–term detector, containing activated charcoal and silica gel desiccants. The desiccants are necessary to remove all moisture in order to make the test results accurate and reliable.

Two radon detectors each were placed in the lowest level of the building, the crawl space and the basement.

They remained in place for a period of 96 hours to allow time for the detectors to absorb enough radon to be analyzed according to EPA standards. The detectors were then sealed with the enclosed caps, and submitted for analysis by PRO–LAB in Weston, Florida.

The Basement sample indicated very low levels of Radon 0.3 picocuries per liter (pCi/L).

The Crawlspace sample indicated a Radon level of 6.6 pCi/L.

Recommendations

If the facility is to be reoccupied, it is advised to consider doing a long term test to determine the average radon concentrations over a longer period of time.

FOR RESIDENCES, THE EPA RECOMMENDS THAT REMEDIATION BE DONE IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.

Radon levels less than 4 pCi/L still pose a risk. It is recommended to take additional measurements because radon levels can vary with the seasons.

If measured Radon levels remain above the EPA recognized level of 4.0 pCi/L, a Certified Radon Remediation contractor should be consulted regarding abatement methods.

Project Report Limitations

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. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

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.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of activities at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme has no control.

This documents intended use is only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

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.



RADON ANALYSIS REPORT

1675 North Commerce Parkway, Weston, FL 33326 (954) 384-4446

 TEST ID NUMBER:
 812137

 DATE RECEIVED:
 10/18/2013

 REPORT DATE:
 10/21/2013

TEST LOCATION

100 CATRON SANTA FE COUNTY SANTA FE, NM

BRETT ENGEL 3816 CARLISLE NE ALBUQUERQUE, NM 87107

This is a confidential report of the radon samples that were submitted to our laboratory for measurements of radon-222 levels. The results represent the amount of radon that was present in the air during the time of sampling. The radon is measured in our laboratory using the liquid scintillation method (EPA 402-R-92-004). This report will not be released to anyone without your permission except as required by individual state laws and guidelines.

HERE ARE YOUR TEST RESULTS

VIAL #	ROOM TESTED	DATE OPENED	DATE CAPPED	DATE ANALYZED	RADON LEVEL
3273113	BASEMENT CRAWL SPACE	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:54 AM	6.7 pCi/L
3273658	BASEMENT CRAWL SPACE	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 2:05 AM	6.5 pCi/L

AVERAGE RADON LEVEL (average result of two tests) : 6.6 pCi/L

THE EPA RECOMMENDS THAT YOU FIX YOUR HOME IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.

Please read the EPA Citizen's Guide to Radon at www.epa.gov/radon/pubs/citguide.html. Residents of New Jersey should read "Radon Testing and Mitigation: The Basics" at http://njradon.org/download/mitbas.pdf. Radon levels less than 4 pCi/L still pose a risk. You may want to take additional measurements because radon levels can vary with the seasons. You may also want to consider doing a long term test to determine the average radon concentrations over a longer period of time. If the radon level is 4.0 pCi/L or higher you should perform either a long-term test or a second short-term test. If the radon level is higher than 10 pCi/L you should perform a second short-term test immediately. **If you would like to learn how to lower your radon levels, or have other questions, please contact your state radon office at (505)827-1093.**

LIMITATIONS OF DATA AND PRODUCT LIABILITY

PRO-LAB expressly disclaims any and all liability for any special, incidental, or consequential damages resulting directly or indirectly from the improper use of or improper interpretation of the radon product or its results. Any delays in receipt of the test sample by PRO-LAB shall be the sole responsibility of the purchaser and their legal remedy shall be limited to recourse with their chosen carrier. Additionally, PRO-LAB shall not be responsible for the improper placement of the test canister nor shall PRO-LAB be liable for results derived directly or indirectly from the improper placement of said test canister. PRO-LAB, its agents, its retailers, its distributors, and the manufacturers' sole liability are limited to the cost for the responsement of the test canister itself only.

In D. Shane

John D. Shane, PhD, RMS NEHA-NRPP CERT# 106562RT AARST ID#779

PRO-LAB NEHA ID# 101461AL

Jomes & M Quell

James E. McDonnell IV NEHA-NRPP ID# 103456RT AARST ID#558



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HERE ARE YOUR TEST RESULTS

VIAL #	ROOM TESTED	DATE OPENED	DATE CAPPED	DATE ANALYZED	RADON LEVEL
3248357	BASEMENT	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:32 AM	0.3 pCi/L
3248538	BASEMENT	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:43 AM	0.2 pCi/L

AVERAGE RADON LEVEL (average result of two tests) : 0.3 pCi/L

THE EPA RECOMMENDS THAT YOU FIX YOUR HOME IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.

Please read the EPA Citizen's Guide to Radon at www.epa.gov/radon/pubs/citguide.html. Residents of New Jersey should read "Radon Testing and Mitigation: The Basics" at http://njradon.org/download/mitbas.pdf. Radon levels less than 4 pCi/L still pose a risk. You may want to take additional measurements because radon levels can vary with the seasons. You may also want to consider doing a long term test to determine the average radon concentrations over a longer period of time. If the radon level is 4.0 pCi/L or higher you should perform either a long-term test or a second short-term test. If the radon level is higher than 10 pCi/L you should perform a second short-term test immediately. **If you would like to learn how to lower your radon levels, or have other questions, please contact your state radon office at (505)827-1093.**

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