

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) ASBESTOS

CURIEL PRIMARY SCHOOL – CAMPUS ROOF RESTORATIONS AND BUILDING WEATHERIZATION PROJECT

1000 North Curiel Street Eloy, Arizona WT Reference No. 2188JH269

PREPARED FOR:

Eloy Elementary School District 1011 North Sunshine Boulevard Eloy, Arizona 85131

Attn: Edward Sauceda and Ruby James

August 10, 2018

Alexander Smith
Environmental Scientist

Vicky L. Aviles, AEP, CIAQM

Environmental Project Manager/Principal

SURVEY INFORMATION SUMMARY

Consulting Firm: Western Technologies Inc. 3737 East Broadway Road Phoenix, Arizona 85040 (602) 437-3737 **Current Property Owner:** Pinal County School District 11 Eloy Site Address: 1000 North Curiel Street Eloy, Arizona Assessor's Parcel Number (APN): 405051750 **Facility Description: Elementary School** Age of Facility: Building 5 – 1953 Building 6 - 1953 Building 7 – 1953 Building 8 – 1953 Building 9 - 1953 Building 10 - 1953 Building 11 - 1953 Building 12 – 1953 Building 13 - 1953 Building 14 – 1987 Gymnasium – 2005 Date of Survey: August 6, 2018 **EPA Accredited Inspector: Alexander Smith** Theodore Stude **Certification Number & Expiration Date:** G7791 Exp. 11-08-2018 (Smith) G8459 Exp. 04-06-2019 (Stude) **Training Facility:** The Asbestos Institute (TAI) Number of Samples & Date Analyzed: Asbestos (PLM) Building 5 – 18 (8/8/2018) Building 6 – 18 (8/9/2018) Building 7 – 12 (8/9/2018) Building 8 – 18 (8/8/2018)

Building 9 – 15 (8/8/2018) Building 10 – 18 (8/8/2018) Building 11 – 15 (8/8/2018)

Building 12 – 21 (8/8/2018) Building 13 – 15 (8/8/2018) Building 14 – 21 (8/8/2018) Gymnasium – 24 (8/8/2018)

Methods of Analysis: Polarized Light Microscopy (PLM)

EPA 600/R-93/116 Method – Asbestos

Laboratory: Fiberquant Analytical Services (PLM)

5025 South 33rd Street Phoenix, Arizona 85040

National Voluntary Laboratory Accreditation

Program (NVLAP) Endorsement:

101031-0 (Fiberquant)

Arizona Department of Health Services

(AZDHS) Laboratory License:

AZ0633 (Fiberquant) & AZ0805 (Accutest)

Asbestos Containing Building Materials (ACBM) Identified:

Building 5 (RPA Building H)

None

Building 6 (RPA Building A)

Sealant @ Roof Penetrations, ~10 s.f.

Building 7 (RPA Building A)

Sealant @ Roof Penetrations, ~10 s.f.

Building 8 (RPA Building B)

Sealant @ Roof Penetrations, ~10 s.f.

Building 9 (RPA Building B)

Sealant for Roof Penetrations, ~10 s.f.

Building 10 (RPA Building C)

Sealant @ Roof Penetrations, ~10 s.f.

Building 11 (RPA Building C)

Sealant @ Roof Penetrations, ~10 s.f.

Building 12 (RPA Building D)

Sealant @ Roof Penetrations, ~10 s.f.

Building 13 (RPA Building D)

Sealant @ Roof Penetrations, ~10 s.f.

Building 14 (RPA Building F)
None

<u>Gymnasium (RPA Building G)</u> None

NOTE: This survey is limited to the sampling and analysis only of the materials identified within this report. Other materials located at the site that were not included in this survey should be assumed to be asbestos-containing until sampled to prove they are not.



August 10, 2018

Eloy Elementary School District 1011 North Sunshine Boulevard Eloy, Arizona 85131

Attn: Edward Sauceda and Ruby James

Re: Limited NESHAP Asbestos Survey WT Job No. 2188JH269

Campus Roof Restorations and Building Weatherization Project

Curiel Elementary School 1000 North Curiel Street

Eloy, Arizona

INTRODUCTION

Western Technologies Inc. (WT) presents the results of the NESHAP asbestos survey conducted at the above referenced Property. WT was authorized by Edward Sauceda and Ruby James with Eloy Elementary School District to perform these services according to the scope of work under WT's Proposal/Agreement for Professional Services (WT Ref. No. 2188PH436), dated July 13, 2018. The asbestos survey included identifying, quantifying, mapping, and sampling suspect asbestos containing building materials (ACBMs) following the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Occupational Safety and Health Administration (OSHA) protocol for the identification of ACBM prior to disturbance by planned demolitions and renovations of the structures on the Property. The scope of work included the roof systems and exterior wall components of eleven structures that may be disturbed by the planned renovation.

BUILDING DESCRIPTIONS

The EPA requires each structure to be inspected and sampled for asbestos independent of other structures. The EPA identifies a structure based on its footprint not the roofline. Eight of the structures located on this campus are separated by a breezeway and share the same roofline. Therefore, WT has conducted the asbestos inspection independent for each structure based on the footprint for walls but has determined the roofs to be homogeneous.

Building ID on WT Figure A – Labels given to the 11 buildings on Figure A, attached to this report.

<u>Building ID on RPA Plans</u> – Labels given to the 11 buildings on plans by Robert Polcar Architects, Inc (RPA) for Campus Roof Restorations and Building Weatherizations, Project No. 110411103-9999-008-BRG, dated 08/XX/2018.

Building ID on WT Figure A	Building ID on RPA Plans	Building Use
Building 5	Building "H"	Administration Offices
Building 6	Building "A" (west of breezeway)	Classrooms 5, 6, 7, and Restrooms
Building 7	Building "A" (east of breezeway)	Classrooms 1, 2, 3, and 4
Building 8	Building "B" (west of breezeway)	Classrooms 12, 13, 14, and Restrooms
Building 9	Building "B" (east of breezeway)	Classrooms 8, 9, 10, and 11
Building 10	Building "C" (west of breezeway)	Classrooms 19, 20, 21, and Restrooms
Building 11	Building "C" (east of breezeway)	Classrooms 15, 16, 17, and 18
Building 12	Building "D" (west of breezeway)	Classrooms 24, 25, 26, and Restrooms
Building 13	Building "D" (east of breezeway)	Classrooms 22 and 23, Library, and
Bullullig 15		Teacher's Lounge
Building 14	Building "F"	Cafeteria, Kitchen, and Restrooms
Gymnasium	Building "G"	Gymnasium and Restrooms

ASBESTOS SURVEY

Alexander Smith and Theodore Stude, EPA accredited asbestos inspectors with WT, conducted the survey August 6, 2018. The Property included eleven buildings. The survey was limited to the roofs and exterior walls of eleven buildings on the Property as mentioned above in the scope of the project. WT prepared an aerial photograph, which is included at the end of this report (Figure A), to identify the buildings that were surveyed. An aerial photograph was also prepared for each of the buildings on the Property that were included in the survey depicted on Figures 1 through 11 in Appendix A through K of this report.

Building 5 (RPA Building H)

General construction of the exterior of the building consisted of a wooden roof deck and framing, concrete masonry unit exterior walls, on a concrete floor slab. The area of the building was approximately 2,700 square feet. There were two breezeways to the west of the building.

WT collected 18 samples of 6 suspect homogeneous materials from the exterior of the building to include: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, none were identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 1 and/or the inspector's Asbestos Survey Sample Logs located in Appendix A of this report.

Building 6 (RPA Building A)

General construction of the exterior of the building consisted of a wooden roof deck and framing, concrete masonry unit exterior walls, on a concrete floor slab. The area of the building was approximately 4,320 square feet. The building had a shared roof with Building 7 (RPA Building A) with a breezeway between the two buildings.

WT collected 18 samples of 6 suspect homogeneous materials from the exterior of the building that included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 2 and/or the inspector's Asbestos Survey Sample Logs located in Appendix B of this report.

Building 7 (RPA Building A)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,750 square feet. The building had a shared roof with Building 6 (RPA Building A) with a breezeway between the two buildings.

WT collected 12 samples of 4 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 3 and/or the inspector's Asbestos Survey Sample Logs located in Appendix C of this report.

Building 8 (RPA Building B)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,320 square feet. The building had a shared roof with Building 9 (RPA Building B) with a breezeway between the two buildings.

WT collected 18 samples of 6 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material

samples collected, review Table 4 and/or the inspector's Asbestos Survey Sample Logs located in Appendix D of this report.

Building 9 (RPA Building B)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,750 square feet. The building had a shared roof with Building 8 (RPA Building B) with a breezeway between the two buildings.

WT collected 15 samples of 5 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 5 and/or the inspector's Asbestos Survey Sample Logs located in Appendix E of this report.

Building 10 (RPA Building C)

General construction of the exterior of the building consisted of a metal roof and wood framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,320 square feet. The building had a shared roof with Building 11 (RPA Building C) with a breezeway between the two buildings.

WT collected 18 samples of 6 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 6 and/or the inspector's Asbestos Survey Sample Logs located in Appendix F of this report.

Building 11 (RPA Building C)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,750 square feet. The building had a shared roof with Building 10 (RPA Building C) with a breezeway between the two buildings.

WT collected 15 samples of 5 suspect homogeneous materials from the exterior of the building materials which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant,

and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 7 and/or the inspector's Asbestos Survey Sample Logs located in Appendix G of this report.

Building 12 (RPA Building D)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete floor slab. The area of the building was approximately 4,320 square feet. The building had a shared roof with Building 13 (RPA Building D) with a breezeway between the two buildings.

WT collected 21 samples of 7 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 8 and/or the inspector's Asbestos Survey Sample Logs located in Appendix H of this report.

Building 13 (RPA Building D)

General construction of the exterior of the building consisted of a wooden roof deck and framing, concrete masonry unit exterior walls, on a concrete floor slab. The area of the building was approximately 4,750 square feet. The building had a shared roof with Building 12 (RPA Building D) with a breezeway between the two buildings.

WT collected 15 samples of 5 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, one was identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 9 and/or the inspector's Asbestos Survey Sample Logs located in Appendix I of this report.

Building 14 (RPA Building F)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry exterior walls, on a concrete slab. The area of the building was approximately 5,970 square feet.

WT collected 21 samples of 7 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, none were identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 11 and/or the inspector's Asbestos Survey Sample Logs located in Appendix K of this report.

Gymnasium (RPA Building G)

General construction of the exterior of the building consisted of a wooden roof deck and framing, masonry walls, on a concrete floor slab. The area of the building was approximately 4,380 square feet.

WT collected 24 samples of 8 suspect homogeneous materials from the exterior of the building which included: roof systems (asphalt shingle, felt, rolled asphalt, penetration sealant, and block and mortar wall materials. Sample collection locations were determined by measuring from the corners of the functional spaces. Of the materials sampled, none were identified by laboratory analysis to contain greater than one-percent asbestos by weight. For a record of suspect material samples collected, review Table 13 and/or the inspector's Asbestos Survey Sample Logs located in Appendix M of this report.

Laboratory Analysis

Fiberquant Analytical Services (Fiberquant) analyzed the material samples. Fiberquant is an NVLAP-accredited laboratory located in Phoenix, Arizona. Single layer sample analysis was performed in accordance with the EPA's recommended Interim Method 600/R-93/116 for the determination of asbestos in bulk sampling using Polarized Light Microscopy (PLM) with dispersion staining and asbestos analysis via Polarized Microscopy, Qualitative.

SUMMARY OF ASBESTOS CONTAINING BUILDING MATERIALS

Building 6 (RPA Building A)

Sealant for Roof Penetrations, approximately 10 square feet

Building 7 (RPA Building A)

Sealant for Roof Penetrations, approximately 10 square feet

Building 8 (RPA Building B)

Sealant for Roof Penetrations, approximately 10 square feet

Building 9 (RPA Building B)

Sealant for Roof Penetrations, approximately 10 square feet

Building 10 (RPA Building C)

Sealant for Roof Penetrations, approximately 10 square feet

Building 11 (RPA Building C)

Sealant for Roof Penetrations, approximately 10 square feet

Building 12 (RPA Building D)

Sealant for Roof Penetrations, approximately 10 square feet

Building 13 (RPA Building D)

Sealant for Roof Penetrations, approximately 10 square feet

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CLASSIFICATION & NESHAP CATEGORY FOR ABATEMENT

The following paragraphs are based on our understanding of the current regulations as interpreted by our local regulators at the time of preparation of this report. The following provides classifications and categories used to describe the regulatory requirements for the planned abatement of homogeneous materials. The OSHA classifications provide details for the personal protective equipment and engineering controls needed for abatement of these materials. The Maricopa County NESHAP requires 10-day notification with associated fees prior to the disturbance of regulated asbestos containing materials that quantify 160 square feet and/or 260 linear feet or greater than or equal to 35 cubic feet. Removal methods selected by the Owner can result in variances to the following:

Roof Penetration Sealant

The asbestos containing roof sealant is a non-friable material that appeared in good condition at the time of the inspection. Removal of the roof sealant is <u>deregulated by OSHA</u> and categorized by NESHAP as Category II, non-friable. These materials will not become friable during removal and do not trigger a NESHAP notification.

RECOMMENDATIONS

The following recommendations are based on WT's opinion and/or observations, and our understanding to the applicable Federal, State and Local regulations for asbestos.

It is recommended WT be contacted if additional suspect ACBMs are encountered during the course of the renovation project.

LIMITATIONS

Conditions can exist within structures and below the ground surface that are not apparent visually or disclosed by sampling data. This study is limited to the conditions expressly disclosed in this report, and it does not represent the assessment or absence of any other conditions on or affecting the Property. WT's findings are based on the assumption that the sampling locations, and the resulting data, are representative of assessed conditions. WT's interpretation, discussion and opinions of the results obtained from the referenced methods, observed conditions, and tested samples are applicable only to the specifically tested locations at the times stated herein.

The regulatory standards referenced in this report are based on our knowledge of applicable regulatory standards in effect at the time the work was performed. WT cannot anticipate potential future changes to regulatory standards by appropriate governmental agencies.

This asbestos inspection report is <u>not</u> intended to be used as design for abatement activities. It is prepared to identify locations and other specific information regarding the asbestos containing building materials identified at the time of the inspection under our specific scope of work tasks.

Potential damage caused to the structure(s) during the inspection was described in our proposal, accepted and acknowledged by acceptance of the proposal by the Owner, and is unavoidable when conducting asbestos surveys.

WT has performed our services in accordance with our contract with our Client, utilizing the ordinary degree of skill and care practiced by other firms providing similar services in the locality of the site. No other warranty or representation expressed, or implied, is made.

CLOSURE

Thank you for the opportunity to provide services for this project. Please call our office if you have any questions concerning the inspection, the report, or to provide a quotation for additional consulting services at (602) 437-3737.

Sincerely,

WESTERN TECHNOLOGIES INC. Environmental Services

Alexander Smith Environmental Scientist

Vicky L. Aviles, AEP, CIAQM

Environmental Project Manager/Principal

Attachment: Figure A: 2018 Aerial Photograph

Appendix A: Figure 1: General Sample Collection Location Diagram - Building 5 (RPA Building H)

Table 1: Summary of Homogeneous Materials by Functional Space
Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix B: Figure 2A: General Sample Collection Location Diagram - Building 6 (RPA Building A)

Figure 2B: Asbestos Containing Building Material Location Diagram - Building 6 (RPA Building A)

Table 2: Summary of Homogeneous Materials by Functional Space
Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix C: Figure 3A: General Sample Collection Location Diagram - Building 7 (RPA Building A)

Figure 3B: Asbestos Containing Building Material Location Diagram - Building 7 (RPA Building A)

Table 3: Summary of Homogeneous Materials by Functional Space
Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix D: Figure 4A: General Sample Collection Location Diagram - Building 8 (RPA Building B)

Figure 4B: Asbestos Containing Building Material Location Diagram - Building 8 (RPA Building B)

Table 4: Summary of Homogeneous Materials by Functional Space
Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix E: Figure 5A: General Sample Collection Location Diagram - Building 9 (RPA Building B)

Figure 5B: Asbestos Containing Building Material Location Diagram - Building 9 (RPA Building B)

Table 5: Summary of Homogeneous Materials by Functional Space
Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix F: Figure 6A: General Sample Collection Location Diagram - Building 10 (RPA Building C)

Figure 6B: Asbestos Containing Building Material Location Diagram - Building 10 (RPA Building C)

Table 6: Summary of Homogeneous Materials by Functional Space Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report

Appendix G: Figure 7A: General Sample Collection Location Diagram - Building 11 (RPA Building C)

- Figure 7B: Asbestos Containing Building Material Location Diagram Building 11 (RPA Building C)
- Table 7: Summary of Homogeneous Materials by Functional Space
 Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report
- Appendix H: Figure 8A: General Sample Collection Location Diagram Building 12 (RPA Building D)
 - Figure 8B: Asbestos Containing Building Material Location Diagram Building 12 (RPA Building D)
 - Table 8: Summary of Homogeneous Materials by Functional Space
 Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report
- Appendix I: Figure 9A: General Sample Collection Location Diagram Building 13 (RPA Building D)
 - Figure 9B: Asbestos Containing Building Material Location Diagram Building 13 (RPA Building D)
 - Table 9: Summary of Homogeneous Materials by Functional Space
 Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report
- Appendix J: Figure 10: General Sample Collection Location Diagram Building 14 (RPA Building F)
 - Table 10: Summary of Homogeneous Materials by Functional Space
 Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report
- Appendix K: Figure 11: General Sample Collection Location Diagram Gymnasium (RPA Building G)
 - Table 11 Summary of Homogeneous Materials by Functional Space
 Asbestos Survey Sample Logs, Chain-of-Custody, and Laboratory Report
- Appendix L: Inspector's Certification and Photographic Log



FIGURE A – 2018 AERIAL PHOTOGRAPH

ELOY ELEMENTARY SCHOOL 1000 NORTH CURIEL STREET ELOY, ARIZONA



	Reviewed: V. Aviles	Date: 08-06-2018		
N	Client: Eloy Elementary School	Prepared By: A. Smith		
	Western Tech	nnologies Inc.		
	Job No. 2188JH269	Figure No. A		

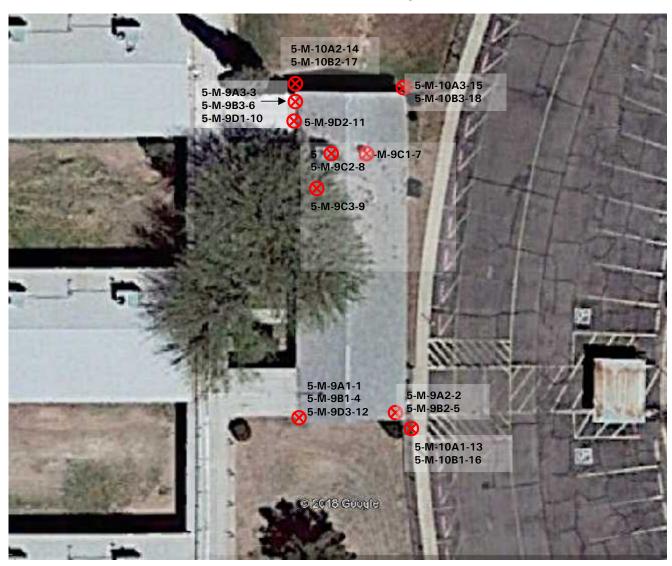


PPENDIX

FIGURE 1 - SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 5 (RPA Building H)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

	Reviewed: V. Aviles	Date: 08-06-2018			
\mathbf{N}	Client: Eloy Elementary School District	Prepared By: A. Smith			
	Western Technologies Inc.				
	^{Job No.} 2188JH269	Figure No. 1			

TABLE 1 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona		SITE ID: Building 5 (Building H)	FRIABLE/ NON FRIABLE	PROJECT NO): 2188JH20	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
5-M-9A1-1, 9A2-2 and 9A3-3	Asphalt Shingle	Roof	NF	Misc	2,760	NO
5-M-9B1-4, 9B2-5 and 9B3-6	Felt	Roof	NF	Misc	2,760	NO
5-M-9C1-7, 9C2-8 and 9C3-9	Sealant (black, on roof penetrations)	Roof	NF	Misc	12	NO
5-M-9D1-10, 9D2-11 and 9D3-12	Rolled Asphalt	Breezeway	NF	Misc	2,660	NO
5-M-10A1-13, 10A2-14 and 10A3-15	Concrete Block (4" x 18")	Exterior Walls	NF	Misc	1,950	NO

TABLE 1 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT:		SITE ID: Building 5	FRIABLE/	PROJECT NO) : 2188JH26	59
NESHAP Asbestos Survey		(Building H)	NON			
Curiel Primary School			FRIABLE			
1000 North Curiel Street						
Eloy, Arizona						
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
5-M-10B1-16, 10B2-17 and 10B3-18	Mortar (for concrete block)	Exterior Walls	NF	Misc	1950 area	NO

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com			А	SBESTOS SURVEY SAMPLE LOG
CLIENT: Eloy Elem		trict	PROJECT NO: 2	188JH269 Page of
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITES	Eloy Elementary School -
	Shingle		LOCATION BY F	UNCTIONAL SPACE (FS):
5 - M - 9			SF: 2760	TY: LF:
Sequential #	1-)	2-2	3-3	NOTES
Location/FS	Roof -		7	
Sample Origin	NW NE SW SE	NW NE	(NW) NE SW SE	30× 741
E/W Location	OFFE	eftw	OHE	
N/S Location	effn	Oftw	045	
Height ^ Floor	Dott off-		->	
Component	floor-		~	
Friable	Yes No	Yes No	Yes (10)	
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M Genera	
Activity Level	(I) M H	Омн	<u>Ф</u> м н	
Disturbance Potential	L/N PD (PSD)	L/N PD PSD	L/N PD (SD)	
% ASBESTOS	ND-		→)	
TYPE ASBESTOS		-		
		INSPECTOR(S	S) / ACCREDITATI	ON NO.
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. 0 ☐ Matt Steinhoff, TAI ID No. 0	ID No. G8456, Expiration 57027, Expiration May S Io. G7675, Expiration O	n April 5, 2019 i, 2018 ctober 6, 2018	☐ John Holmq ☐ Ryan Cleary ☐ Sean Moggri	ude, TAI, ID No. G8459, Expiration April 6, 2019 uist, TAI, ID No. G7810, Expiration November 3, 2018 TAI, ID No. G8455, Expiration April 6, 2019 dge, Field Science, Al171220001, Exp. December 20, 2018 AI, ID No. G7791, Exp. November 8, 2018
SIGNATURE:	- <i>(VVX)</i>	VALO		DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

081WT) 111014

Remarks:

laboratory report.
ND = No asbestos detected.

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com		A	ASBESTOS SURV	EY SAMPLE LOG	
CLIENT: Eloy Elem	nentary School Dis	trict	PROJECT NO: 2	2188JH269	Page 2 of 6.
SITE ADDRESS: 10	00 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -
Arizona			Bldg	5	
HOMOGENEOUS I	MATERIAL:		LOCATION BY	FUNCTIONAL SPA	ACE (FS):
Felt			Blog	5 Rent	
SAMPLE NUMBER	:		TOTAL QUANT	ITY:	
5-M-9	B		SF: 2760	LF:	
Sequential #	1-4	2-5	3-6		NOTES
Location/FS	200C -			1	
Sample Origin	NW NE	NW NE SW SE	NW NE SW SE		
E/W Location	THE	OFTW	ONE		
N/S Location	OC+N)	Offw	offs		
Height ^ Floor	Oft-		->	1	
Component	floor —		>		
Friable	Yes No	Yes No	Yes No		
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.		
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General		
Activity Level	(1) M H	<u>М</u> Н	<u>Г</u> м н		2
Disturbance Potential	L/N PD (PSD)	L/N PD (SD	L/N PD (ESD)		
% ASBESTOS	ND-		7)		
TYPE ASBESTOS			·		
		INSPECTOR(S) / ACCREDITAT	TON NO.	
☐ Vicky Aviles, The Asbes ☐ Suzette Numkena, TAI ☐ Jason Criss, TAI, ID No ☐ Matt Steinhoff, TAI ID ☐ Ryan Fasci, TAI ID No.	, ID No. G8456, Expiratio . G7027, Expiration May! No. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holm ☐ Ryan Clear ☐ Sean Mogg	quist, TAI, ID No. G7810 y, TAI, ID No. G8455, E	171220001, Exp. December 20, 2018

Remarks:

SIGNATURE:

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

DATE: 8/6/2018

laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	The Quality I Since 1955	ogies Inc. People	A:	SBESTOS SURVEY SAMPLE LOG
	CLIENT: Eloy Elementary School District			188JH269 Page <u>3</u> of <u>6</u> .
SITE ADDRESS: 100 Arizona	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -
HOMOGENEOUS N Seglan	4		Roof	UNCTIONAL SPACE (FS):
SAMPLE NUMBER:	1-9C		SF: 12	LF:
Sequential #	1- 1	2-8	3- 9	KI. I. NOTES
Location/FS	Roof -		-	Dack
Sample Origin	NW (NE) SW SE	NVV NE SW SE	NW NE SW SE	Roof penetrations
E/W Location	15(Uh)	93AE	CHE	
N/S Location	2915	30fts	3245	
Height ^ Floor	Q7+-		7	
Component	f\000c-		->	
Friable	Yes No	Yes	Yes (No	
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General	
Activity Level	О м н	(I)M H	L)M H	
Disturbance Potential	L/N PD PSD	L/N PD ESD	L/N PD@SD	
% ASBESTOS	ND -		-	
TYPE ASBESTOS		·		
		INSPECTOR(S) / ACCREDITATI	ON NO.
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. C☐ Matt Steinhoff, TAI ID No. C☐ Ryan Fasci, TAI ID No. C☐	ID No. G8456, Expiration G7027, Expiration May Solo. G7675, Expiration Of S8292, Expiration March	n April 6, 2019 5, 2018 ctober 6, 2018 h.Z. 2019	☐ John Holmq☐ Ryan Cleary☐ Sean Moggr	ude, TAI, ID No. G8459, Expiration April 6, 2019 Julist, TAI, ID No. G7810, Expiration November 3, 2018 7, TAI, ID No. G8455, Expiration April 6, 2019 Julian Field Science, AI171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018
SIGNATURE:	Clean &	HATA		DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

081WTI 111014

Remarks:

laboratory report.
ND = No asbestos detected.

4						
Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com			AS	SBESTOS SURVE	Y SAMPLE LOG	
CLIENT: Eloy Elemo	CLIENT: Eloy Elementary School District			PROJECT NO: 2188JH269 Page Of O.		
SITE ADDRESS: 100	00 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary	School -	
Arizona				5		
HOMOGENEOUS N	ATERIAL:		LOCATION BY F	UNCTIONAL SPA	CE (FS):	
Rolled	Asohal +		Breoze, Se	M		
SAMPLE NUMBER:			TOTAL QUANTI	ry:		
5-M-9	D		SF: 7660	LF:		
Sequential #	1-10	2-	3-12		NOTES	
Location/FS	Brezeway -		-7			
Sample Origin	(N) (NO) (N)	NW NE	NW NE			
Sample Origin	SW SE	SW SE	SW SE			
E/W Location	CHE	OFFE	OffE			
N/S Location	OHS	845	OHN			
Height ^ Floor	oft —		->			
Component	Aloor-		<u>آ</u>			
Friable	Yes No	Yes No	Yes No			
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M deneral	None Rare O&M General			
Activity Level	Фм н	Ш м н	Омн			
Disturbance Potential	L/N PD RSD	L/N PD 🚳	L/N PD (PSD)			
% ASBESTOS	NO		$\overline{}$			
TYPE ASBESTOS						
		INSPECTOR(S) / ACCREDITATION	ON NO.		
 □ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 201 □ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 □ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 □ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 □ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 			☐ John Holmq☐ Ryan Cleary,☐ Sean Moggri	TAI, ID No. G8455, Exp	Expiration November 3, 2018 biration April 6, 2019 21220001, Exp. December 20, 2018	
SIGNATURE:	Men	ALA		DATE: 8/6/2	018	
Remarks: The perc	ent and type asbesto	os are entered upon	completion of laborat	tory analysis. The date	e of analysis is available on the	

laboratory report.
ND = No asbestos detected.

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com			А	SBESTOS SURV	EY SAMPI	LE LOG
CLIENT: Eloy Elementary School District			PROJECT NO: 2	:188JH269	Page S	o of <u>6</u> .
SITE ADDRESS: 1000 North Curiel Street, Eloy, Arizona				: Eloy Elementar	y School -	
HOMOGENEOUS N CONCYCLE SAMPLE NUMBER	(414/81)		10.5	FUNCTIONAL SPA Walls	ACE (FS):	
5-M-18	A		sf: 1950	LF:		
Sequential #	1-13	2- /()	3-(5		NOTES	5
Location/FS	Extenorwalls		>	Octobe in A	4015	(4'X18's)
Sample Origin	NW NE SW (SE)	NW NE SW SE	NW NE SW SE	Collect		
E/W Location	DHW W	OHE	OHW	8	lock	(4/4/R/S
N/S Location	Offy	045	045			
Height ^ Floor	164	54/	2187			
Component	well -			-		
Friable	Yes No	Yes No	Yes No			
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Damaged Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M (General)	None Rare O&M General	<u>an</u>		
Activity Level	Д м н	Д м н	О м н			
Disturbance Potential	L/N PD (SD)	L/N PD (SD)	L/N PD (ESD)			
% ASBESTOS	GN		- 			
TYPE ASBESTOS						

☐ Vicky Aviles, The Asbestos Institute	ite (TAI), G7031, Expiration May S, 2	018
--	---------------------------------------	-----

- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- 🖾 Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018

DATE: 8/6/2018

- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- 🗀 Sean Moggridge, Field Science, Al 171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	The Quality F Since 1955	o gies Inc. People	ASBESTOS SURVEY SAMPLE LOG						
CLIENT: Eloy Elem	_	trict	PROJECT NO: 2188JH269 Page						
SITE ADDRESS: 100	O North Curial St	reet Floy							
Arizona	o North Carlet St	eet, Lloy,		SAMPLED SITE: Eloy Elementary School -					
	<u> </u>			9 第5					
HOMOGENEOUS N			1	FUNCTIONAL SPA					
Wocq			Exten	V					
SAMPLE NUMBER:			TOTAL QUANT						
5-M-	1		sf: 1950 a	rea LF:					
Sequential #	1- [6	2- 17	3-18		NOTES				
Location/FS	Extravorunts		2						
Sample Origin	NW NE	NW NE SW SE	NW NE	far	Concrete Block				
E/W Location	Atw	OHE	CHAD		,				
N/S Location	NED	045	045						
Height ^ Floor	44	5ff	454						
Component	Wall -								
Friable	Yes No	Yes (No)	Yes (No						
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.						
Accessibility	None Rare O&M General	None Rare O&M Genera	None Rare O&M General						
Activity Level	Д м н	Ф м н	ОМ Н						
Disturbance Potential	L/N PD (FSD)	L/N PD PSD	L/N PD(RSD)						
% ASBESTOS	ND-		\ni						
TYPE ASBESTOS									

- ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks:

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.



www.wf-us.com

Flagstaff • (928) 774-8700 • [774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NI Farmington • (505) 327-4966 • f327-5293 • 400 South Lorena Avenue • NM 874 Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84 Durango • (970) 375-9033 • f375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f798-7664 • 6633 West Post Road • NV 89118

>
Ŏ
2
S
\gtrsim
OF
J
A
7
$\overline{\mathbf{c}}$

INDUSTRIAL HYGIENE 🔲 MICROBIAI	ESTOS LEAD	PROJECT MANAGER	Vicky dwrs	JORESS	male layer analysis	COMMENTS	asphalt shingle	
IND	X ASBESTOS	PROJECT		EMAIL ADDRESS	CV	 >^	45	
M87113	401 4115	г метнор			W	乜	×	

PROJECT MANAGER	Vicky Awks	EMAIL ADDRESS	Sylva John day	COMMENTS	asphalt shinale		7	Selt)	schart (black)	\ -)	rolled asahalt	,	7	bloch		-	MONTHE			TE TIME RECEIVED BY - SIGNATURE	REDITESTED THRADIIND TIME	DAYS
		A3AA	NME /	۸٥٢																			DATE	PF0	\sim
THOD		,	γ	172	×	-																⋺			
TEST METHOD																							RE		\ \ \
-																							SIGNATURE	_	
SAMPLE TYPE				IOS																			SHED BY	TIME	
SAMPL				AW2 RIA																			RELINGUISHED BY	DATE	
_			K	JU8 MIP	×	_																5		133	1
	SHERS	AIATNO	OF CI	NO.			y				-					1.52 Y 1						3		STEMATU	
DAESS	1000 W (wire) Street, Floy	ROER NO.	SAMPLER - PLEASE PRINT NAME	SAMPLE LOCATION	Ripling S	P_																7	SALE TIME RECIVED BY SIGNATURE	THE RECEIVED FOR ABORATORY BY -)
PROJECT ADDRESS	000	CHASE O	AMPLER - PLEASE PA] IME (S/C/y	DATE	
PRO		2	SAI	- -																		4			
PROJECT NAME	CIMESHAP	2188 3H2 69	SAMPLER - SIGNATURE	SAMPLE IDENTIFICATION DATE	1_	100	5.8	5-M-901-4	1 2-5	7-6	5-M-9C 1-7	1.8	2.9	01-1 06-W-S	11-3	2-5 个	r- M-10A 1-13	1 2-14	J- 345	5-M-10B1-16	1 2-17	81-8	RELINGUISHED BY — SIGNATURE	RELINQUISHED BY — SIGNATURE	

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample Review of Analysis Request (Initials)



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807174

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples:

PLM

Rec: 8/6/2018 Method: EPA 600/R-93/116

The "New" Method; see below

Client Job:

2188JH269 / 1000 N Curiel Street, Eloy

8/8/2018

PO Number: Routing Number: -

Report Date: 8/8/2018 **Date Analyzed:**

Method and Analysis Information:

have been determined to be "negative."

Fiberquant Internal SOP: **PLMn**

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, Ilquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and

some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached, Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant Identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

DI M	Ana	lvele	Summary:	
PLM	Alla	1V515	Summary:	

PLM Analysis Summary:		Job Num	ber:	201807174	2188JH269 / 1000 N Curiel Street, Eloy
Sample Number	r La	b Number	Apparent	Sample Type *	Positive Layer Yes or No
Layer Color	Apparent Layer Type *	• Asbe	stos Results		
Sample # <u>5-M-9A1-1</u> Layer # 1 black	20 roofing roll/shingle	018-07174- 1	Roofing	d	Positive Layer? No
Sample # 5-M-9A2-2 Layer # 1 black		18-07174- 2	Roofing		Positive Layer? No
Sample # <u>5-M-9A3-3</u> Layer # 1 black		18-07174- 3	Roofing		Positive Layer? No
Sample # <u>5-M-9B1-4</u> Layer # 1 black		18-07174- 4	Roofing estos detecte		Positive Layer? No
Sample # <u>5-M-9B2-5</u> Layer # 1 black		18-07174- 5	Roofing		Positive Layer? No
Sample # <u>5-M-9B3-6</u> Layer # 1 black		018-07174- 6 no asb	Roofing	d	Positive Layer? No
Sample # 5-M-9C1-7 Layer # 1 black		18-07174- 7	Roofing estos detecte		Positive Layer? No
Sample # <u>5-M-9C2-8</u> Layer # 1 black	20 sealant	018-07174- 8 no asb	Roofing	d	Positive Layer? No
Sample # 5-M-9C3-9 Layer # 1 black		18-07174- 9	Roofing		Positive Layer? No
Sample # <u>5-M-9D1-10</u> Layer # 1 black		18-07174- 10	Roofing estos detecte		Positive Layer? No
Sample # <u>5-M-9D2-11</u> tayer # 1 black		18-07174- 11	Roofing		Positive Layer? No
Sample # <u>5-M-9D3-12</u> Layer # 1 black)18-07174- 12 no asb	Roofing	- d	Positive Layer? No
Sample # <u>5-M-10A1-13</u> Layer # 1 gray	20 block)18-07174- 13 no asb	Cementit		Positive Layer? No
Sample # <u>5-M-10A2-14</u> Layer # 1 gray	20 block)18-07174- 14 no asb	Cementit		Positive Layer? No
Sample # <u>5-M-10A3-15</u> Layer # 1 gray	20 block	18-07174- 15 no asb	Cementit		Positive Layer? No
Sample # <u>5-M-10B1-16</u> Layer # 1 gray	20 mortar)18-07174- 16 no asb	Cementit		Positive Layer? No
Sample # <u>5-M-10B2-17</u> Layer # 1 gray		118-07174- 17	Cementit	ious	Positive Layer? No
Sample # <u>5-M-10B3-18</u>		118-07174- 18	Cementit		Positive Layer? No

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

no ashestos detected

5025 S. 33rd Street

Laver # 1

gray

mortar

201807174

2188JH269 / 1000 N Curiel Street, Elo

Sample 5-M-9A1-1 Lab Number 2018-07174-1 Sampled: 8/6/2018 Condition: acceptable An? OK Analyzed By RAM 8/8/2018 Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Flb 1 FIb 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Elg Calor Mrph Iso Pleo BI Ext Oii Col Par | Col Per | RI Par | RI Per glass fiber CŁ D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9A2-2 Sampled: 8/6/2018 Lab Number 2018-07174- 2 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber **Layer Type** Color Friability Fib 1 FIb 2 FIb 3 Fib 6 roofing roll/shingle 100 black 1 5-10% Total % 100 Overall % 5-10% Fiber Identification: plass fiber **Refractive Index Determinations** Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par | Col Per | RI Par | RI Per 1 glass fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9A3-3 Lab Number 2018-07174-3 Sampled: 8/6/2018 Condition: acceptable Fibrous Solid Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Roofing Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Friability # Layer Type Color Fib 1 Fib 2 Fib 3 FIb 5 Fib 6 roofing roll/shingle 5-10% 100 Overall % Total % 5-10% Fiber Identification: class fiber Refractive Index Determinations **Fibers** Color Mrph Iso Bi Ext Col Par | Col Per | RI Par | RI Per glass fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

2188JH269 / 1000 N Curiel Street, Elo

Sample 5-M-981-4 Lab Number 2018-07174- 4 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Fib 5 Fib 6 roofing roll/shingle 100 black 5-10% 1 Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Ele Ext Oil Col Par Col Per RI Par RI Per glass fiber CL D 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9B2-5 Lab Number 2018-07174-5 Sampled: 8/6/2018 Condition: acceptable **Apparent Smp Type** Roofing Analyzed By RAM 8/8/2018 An? OK Fibrous Solid # Layers 1 Homogeneous Yes Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Color Layer Type Friability Fib 1 Fib 2 Fib 3 Fib 5 Fib 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations **Fibers** Color Mrph Iso Pleo Elg Ext Col Par Coi Per RI Par RI Per olass fiber D CL 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9B3-6 Lab Number 2018-07174- 6 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 An? OK Analyzed By RAM Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib S Fib 6 roof ply 100 black 1 60-70% 100 60-70% Total % Overall % Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo ы Elg Ext Col Par Col Per RI Par RI Per cellulose fiber W N N U 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

201807174

2188JH269 / 1000 N Curiel Street, Elo

Sample 5-M-9C1-7 Lab Number 2018-07174-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An7 OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Layer Type Friability Color FIb 1 FIb 2 FIb 3 Fib 4 FIb 5 Fib 6 sealant 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: celuiose fiber Refractive Index Determinations Fibers Iso Color Mrph Col Par Col Per RI Par RI Per Pieo Ext cellulose fiber W U N N H 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9C2-8 Lab Number 2018-07174- B Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Laver Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 sealant 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: celluiose fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo BI Elg Ext Col Par Col Per RI Par RI Per cellulose fiber W N н U 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9C3-9 Lab Number 2018-07174-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 FIb 3 Fib 4 Fib 5 FIb 6 sealant 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: cellulose fiber **Refractive Index Determinations** Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par | Col Per | RI Par | RI Per cellulose fiber W U 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

Sample 5-M-9D1-10 Lab Number 2018-07174-10 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 Fib 3 Fib 4 FIb S Flb 6 roofing roll/shingle black 100 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Mrph Iso Pleo Elg Ext OII Col Par | Col Per | RI Par | RI Per class fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9D2-11 Lab Number 2018-07174-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filter, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Flb 3 Fib 4 FIb 5 FIb 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Col Par Col Per RI Par RI Per glass fiber CL. D 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 5-M-9D3-12 Lab Number 2018-07174- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Flb 4 Fib 5 FIb 6 roofing roll/shingle 100 black 1 5-10% 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations **Fibers** Color Mrph Iso Pleo 81 Elg Ext Col Par Col Per RI Par RI Per glass fiber D 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

201807174

2188JH269 / 1000 N Curiel Street, Elo

Sample 5-M-10A1-13 Condition: acceptable Lab Number 2018-07174-13 Sampled: 8/6/2018 Analyzed By RAM 8/8/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber # Layer Type 96 Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Flb 5 Fib 6 block 100 n.d Total % 100 Overall % n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 5-M-10A2-14 Lab Number 2018-07174-14 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Flb 3 Fib 4 FIb S Fib 6 100 дгау n.d Total % 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 5-M-10A3-15 Lab Number 2018-07174- 15 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Layer Type Color Friability Fib 1 Fib 2 Fib 4 Fib 5 Fib 6 block 100 gray n.d. 100 Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per none 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

Sample 5-M-10B1-16 Condition: acceptable Lab Number 2018-07174- 16 Sampled: 8/6/2018 Analyzed By RAM 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber # 96 Color Friability Layer Type Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 mortar 100 Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Elg Color Mrph Pleo Ext Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 5-M-1082-17 Lab Number 2018-07174- 17 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Flb 3 Fib 4 FIb 5 Fib 6 mortar 100 gray Total % 100 Overall % n.d. Fiber identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per поле 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 5-M-10B3-18 Lab Number 2018-07174- 18 Sampled: 8/6/2018 Condition: acceptable Analyzed By RAM 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib S Fib 6 mortar 100 gray n.d. Total % 100 Overall % n.d Fiber Identification: **Refractive Index Determinations** Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per none 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable

Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various

Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;

D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High

Eig=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining

Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;

vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Coi Perp=same only perpendicular to fiber.

RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst:

ROBERT A. McCORMICK

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Larry S. Pieros

, Approved Accreditation Signatory

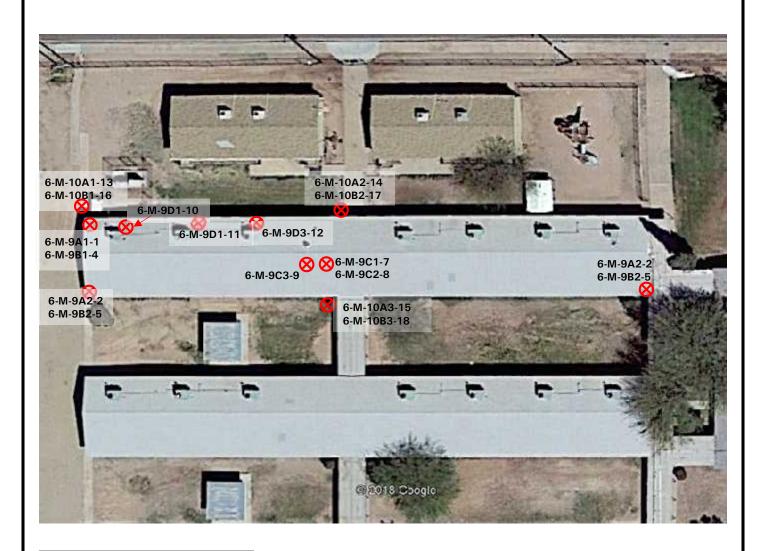


Ш

FIGURE 2A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 6 (RPA Building A)



LEGEND



General Sample Collection Location and Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

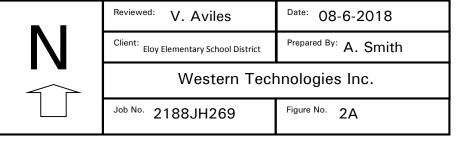


FIGURE 2B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 6 (RPA Building A)



DIAGRAM NOT TO SCALE

Date: 08-6-2018

Prepared By: A. Smith

Figure No. 2B

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet

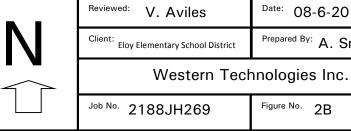


TABLE 2 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 6 (RPA Building A)	FRIABLE/ NON FRIABLE	PROJECT NO: 2188JH269			
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
6-M-9A1-1, 9A2-2 and 9A3-3	Asphalt Shingle	Roof	NF	Misc	10,140	NO
6-M-9B1-4, 9B2-5 and 9B3-6	Felt	Roof	NF	Misc	10,140	NO
6-M-9C1-7, 9C2-8 and 9C3-9	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
6-M-9D1-10, 9D2-11 and 9D3-12	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	YES
6-M-10A1-13, 10A2-14 and 10A3-15	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,240	NO

TABLE 2 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT:		SITE ID: Building 6 (RPA	FRIABLE/	PROJECT NO) : 2188JH26	59
NESHAP Asbestos Survey	Building A)	NON				
Curiel Primary School		FRIABLE				
1000 North Curiel Street						
Eloy, Arizona						
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
6-M-2A1-16, 2A2-17 and 2A3-18	Mortar (for concrete block)	Exterior Walls	NF	Misc	1240 area	NO

Geotechnical Environmental Inspections Materials Western Technologies inc. The Quality People Since 1955 wt-us.com			A	SBESTOS SURV	EY SAMPLE LOG
CLIENT: Eloy Elementary School District			PROJECT NO: 2	PROJECT NO: 2188JH269 Page of	
SITE ADDRESS: 1000 North Curiel Street, Eloy, Arizona			SAMPLED SITE: Eloy Elementary School - Bldg 6 + Bldg 7		
HOMOGENEOUS N	1ATERIAL:		LOCATION BY F	UNCTIONAL SPA	ACE (FS):
Asphala	t Stongle)	Rest		
SAMPLE NUMBER:			TOTAL QUANTI	ITY:	
6-M-	- 9 A 3 15		SF: 0140	LF:	
Sequential #	1-)	2-2	3-3		NOTES
Location/FS	haf se	POOF 6	KS957		
Sample Origin	NW NE SW SE	NW NE	NW NE SW SE	4 6	a dea Ca
E/W Location	OFFE	OHE	Of W	f 3	Dampies for
N/S Location	0445	OFTN	Oftw	roof e	Samples for of Bldg 6 and
Height ^ Floor	oft -		_ _	1 - 10000	
Component	£100r —		-	BId	g /
Friable	Yes (No	Yes No	Yes No		
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.		
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General		
Activity Level	€LM H	Фм н	@ м н		
Disturbance Potential	L/N PD (PSD)	L/N PD (PSD)	L/N PD PSD		
% ASBESTOS	ND-		- ව		
TYPE ASBESTOS					

Vicky Aviles,	The Asbestos	Institute (TAI),	G7031, Ex	piration May	5, 2018
Company Misse	-b TALIDA				

- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- 🗀 Ryan Fasci, TAl ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- 🔯 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

CLIENT: Eloy Elementary School District Western Technologies Inc. The Quality People Since 1955 wt-us.com			ASBESTOS SURVEY SAMPLE LOG			
			PROJECT NO: 2	2188JH269 Page 2_of 6.		
SITE ADDRESS: 100	O North Curiel St	reet, Eloy,		: Eloy Elementary School -		
			Blog (o + Bldg7		
HOMOGENEOUS M	IATERIAL:		LOCATION BY	FUNCTIONAL SPACE (FS):		
Felt			hod			
SAMPLE NUMBER:	_		TOTAL QUANT			
(g-M-	-9B		SF: 18140	LF:		
Sequential #	1- 4	2- 5	3-6	NOTES		
Location/FS	hoof 6	Roof 6	Roof 7			
Sample Origin	NTY NE	NW NE	NW NE			
	SW SE	(SW) SE	SW (SE)	Samples for roof of Bldg 6 + Bldg 7		
E/W Location	<u> </u>	OF AF	OH W	0 0		
N/S Location	045	04+10	0HN	root of Bldg 6 + Blog 7		
Height ^ Floor	044-					
Component	floor-					
Friable	Yes	Yes (No	Yes No			
	(G000)	(600d)	Good	N.		
Condition	Damaged	Damaged	Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.	-8		
A	None Rare	None Rare	None Rare			
Accessibility	O&M	O&M	O&M			
Activity Level	General (L)M H	General M H	General H			
Disturbance			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Potential	L/N PD (SD)	L/N PD (SD)	L/N PD PSD			
% ASBESTOS	NO-		2			
TYPE ASBESTOS						
			s) / ACCREDITAT			

☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019	Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the Remarks: laboratory report.

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com			ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Elem	CLIENT: Eloy Elementary School District			PROJECT NO: 2188JH269		
SITE ADDRESS: 100	00 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -	
Arizona			BU	g 6		
HOMOGENEOUS N	AATERIAL:		LOCATION BY	FUNCTIONAL SPA	ACE (FS):	
(0-101-	tro Bays	seglant	ℓ_{α}	$\stackrel{\mathcal{C}}{\longrightarrow}$		
SAMPLE NUMBER			TOTAL QUANT	ITY:	·	
6-M-90			SF: 15	LF:		
Sequential #	1-7	2-8	3-9		NOTES	
Location/FS	ROOF			21.1	As white	
Sample Origin	NW WE	NW NE SW (§E)	NW NE SW (ŞE)	D49C	NOTES AS WHE OF Pendration HVAC	
E/W Location	48+ W	4RW	8 FFW		304 beneficianon	
N/S Location	WEN	liftn	11541		MUAC	
Height ^ Floor	1044 -			OIL	FIV A	
Component	floor-		_			
Friable	Yes No	Yes Wo	Yes No			
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.			
Accessibility	None Rare O&M	None Rare O&M	None Rare O&M			

INSPECTOR(S) / ACCREDITATION NO.

Дм н

L/N PD

(1) M H

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018

(L)M H

L/N PD

- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- 🛘 Ryan Fasci, TAI ID No. G8292, Expiration March 7,2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- \square John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

Activity Level

Disturbance

TYPE ASBESTOS

Potential
% ASBESTOS

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

			The second secon				
Geotechnical Environmental Inspections Materials wt-us	Environmental Inspections Technologies Inc. The Quality People			ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Elemo	CLIENT: Eloy Elementary School District			Page 4 of 6.			
SITE ADDRESS: 100	00 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -			
Arizona		·	Bldg	16			
HOMOGENEOUS N	ATERIAL:		LOCATION BY F	JNCTIONAL SPACE (FS):			
Scalar	Λ +		Long				
SAMPLE NUMBER:			TOTAL QUANTIT	TY:			
6-M.		4	SF: 10	LF:			
Sequential #	1-10	2- 11	3-12	NOTES			
Location/FS	Rose	15					
Sample Origin	NE SW SE	. (NW) NE SW SE	NW NE SW SE	Black			
E/W Location	2617	RAF	204E	Roof Penetrations			
N/S Location	Coffs	445	145	Land Levellollons?			
Height ^ Floor	OF1-						
Component	£1000-		-5				
Friable	Yes (Nø	Yes No	Yes No				
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.				
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General				
Activity Level	Эмн	Омн	Омн				
Disturbance Potential	L/N PD ASD	L/N PD PSD	L/N PD (PSD)				
% ASBESTOS	10-200/0	M	10-20/0				
TYPE ASBESTOS	Chysoble	لا تا	10-2010				
		INSPECTOR(S	s) / ACCREDITATIO	DN NO.			
 □ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 201 □ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 □ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 □ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 □ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 			☐ John Holmqu☐ Ryan Cleary,☐ Sean Moggrid	de, TAI, ID No. G8459, Expiration April 6, 2019 list, TAI, ID No. G7810, Expiration November 3, 2018 TAI, ID No. G8455, Expiration April 6, 2019 lige, Field Science, AI171220001, Exp. December 20, 2018 AI, ID No. G7791, Exp. November 8, 2018			
SIGNATURE:	ally,	SHA		DATE: 8/6/2018			
Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the							

laboratory report.

Geotechnical	Western
Environmental	Technologies Inc.
Inspections	The Quality People
Materials	Since 1955

ASBESTOS SURVEY SAMPLE LOG

Inspections Materials Wt-us.com The Quality People Since 1955			ASBESTOS SURVEY SAMPLE LOG				
CLIENT: Eloy Eleme		trict	PROJECT NO:	PROJECT NO: 2188JH269 Page 5 of 6.			
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -				
Arizona			Bldg 6				
HOMOGENEOUS N	HOMOGENEOUS MATERIAL:			LOCATION BY FUNCTIONAL SPACE (FS):			
Concrete			Extenor walls				
SAMPLE NUMBER:			TOTAL QUANT				
6-M-1	0A		SF: 1240	LF:			
Sequential #	1-13	2- 14	3-15		NOTES		
Location/FS	Extualis-		->				
Sample Origin	NW NE SW SE	NW (NE) SW SE	NW NE SW(SE)	Pla	ck 41/x/8/1		
E/W Location	SLE	OFTW	OFFW				
N/S Location	045	als	afth				
Height ^ Floor	470	124	DET	1			
Component	Wall		7				
Friable	Yes No	Yes No	Yes No				
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.				
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M (General				
Activity Level	Ф м н	(I) M H	Омн				
Disturbance Potential	L/N PD (PSD)	L/N PD (PSD)	L/N PD (PSD)	1			
% ASBESTOS	110		- 5]			
TYPE ASBESTOS							
		INSPECTOR(S) / ACCREDITAT	TON NO.			
□ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 20: □ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 □ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 □ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 □ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019			☐ John Holm ☐ Ryan Clea ☐ Sean Mog	iquist, TAI, ID No. G78: ry, TAI, ID No. G8455, I	9, Expiration April 6, 2019 10, Expiration November 3, 2018 Expiration April 6, 2019 1171220001, Exp. December 20, 2018 1p. November 8, 2018		
SIGNATURE:	(OL)	lk Store	1-176	DATE: 8/6,	/2018		
	ent and type asbestory report.	os are entered upon	completion of labor	atory analysis. The d	late of analysis is available on the		

Geotechnical Environmental Inspections Materials	Western Technologies Inc. The Quality People Since 1955						
wt-us.c	om						
CLIENT: Floy Flementary School District							

Inspections Materials Wt-us.com The Quality People Since 1955			ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Eleme		trict	PROJECT NO: 21	.88JH269	Page 6 of 6.	
				Page O of O .		
	SITE ADDRESS: 1000 North Curiel Street, Eloy,			Eloy Elementar	y School -	
Arizona	Arizona			BldaC		
HOMOGENEOUS M	ATERIAL:		LOCATION BY F	4	· · · · · · · · · · · · · · · · · · ·	
Macta	5		Doglo	B Erler	185 12als	
SAMPLE NUMBER:			TOTAL QUANTIT			
(e-M-	10B		sf: 1240 are	Δ LF:		
Sequential #	1-1(e	2-17	3- 8		NOTES	
Location/FS	Exterior walk-		<i>→</i>	\cap	1 001	
Sample Origin	NW NE SW SE	NW (NE) SW SE	NW NE SW SE	tonc	oncrede Block	
E/W Location	OHE	offw	0HW			
N/S Location	845	OFFS	045			
Height ^ Floor	DH-	alt	100			
Component	wall					
Friable	Yes 🕠	Yes No	Yes (No)			
Condition	Good Damaged	Good Damaged	Good Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.			
	None	None	None			
Accessibility	Rare Q&M	Rare O&M	Rare O&M			
	General	General	General			
Activity Level	€ M H	(L) M H	Дмн			
Disturbance Potential	L/N PD(PSP	L/N PD (PSD)	L/N PD (PSD)			
% ASBESTOS	ND		7)			
TYPE ASBESTOS						
		INSPECTOR(S) / ACCREDITATION	ON NO.		
☐ Vicky Aviles, The Asbesto					Expiration April 6, 2019	
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018					O, Expiration November 3, 2018 opiration April 6, 2019	
☐ Matt Steinhoff, TAi ID No. G7675, Expiration October 6, 2018			☐ Sean Moggrid	dge, Field Science, All	171220001, Exp. December 20, 2018	
Ryan Fasci, TAI ID No. G	68292, Expiration March	7, 2019	Alex Smith, T	Al, ID No. G7791, Exp	1	
SIGNATURE:	(XXVV	SHX		DATE: 8/6/		
	ent and type asbest? ry report.	os are entered upon	completion of laborat	ory analysis. The da	te of analysis is available on the	
ND = No asbestos detected.						

Western	The Q <u>uality</u> People
Technologies	Since 1955

Flagstaff • (928) 774-8700 • f774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f470-1341 • 3737 East Broadway Road • AZ 85040 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85 Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113 Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

1 (CHAIN OF CUSTODY	
	36305	5713

☐ MICROBIAL	☐ LEAD
INDUSTRIAL HYGIENE	☑ ASBESTOS

S	
2	
<u>~</u>	
ASI	
Ś	

Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115 Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

SAMPLE TYPE

		ı
		OBCAL
		TA LIABIA TE
		21 000
ľ		
		ı

PROJECT MANAGER	WCKY AWRS	EMAIL ADDRESS	Snale laver avalysis	Сфиментя	asohalt shinsle		
		ABRA /					
T METHOD			<i>\varphi</i> .	₹/	×	~	-
T ME							_

ROIL язт<mark>а</mark>м ₽ΙΑ BAWS MIBE впгк

> SAMPLE LOCATION Buildinglo

NO. OF CONTAINERS

SAMPLER - PLEASE PRINT NAME

V TIME

DATE

SAMPLE IDENTIFICATION

1-1 AP 1-1

2-2

7-4

×

و م 1 8-2

6- M-9C

PURCHASE ORDER NO.

PROJECT ADDRESS

PROJECT NAME

www.wt-us.com

COMMEN	105	•	
	145		7
>	Alphaso		

2	•		
148	_	7	
shalf	3		
950			(

5	`		
148		7	
asphalt	,		

)		-
01101011	40000-000	404	

+01	,	sealant (wh	

,	plac	-	
	sealant (

<u>으</u> 스

7-7

3-9

カン

(- [3

<u>ا (ق</u>

3-15

3-18

LINGUISHED

black	
	_

Z	
10	
7	

)	7	_	7	RECEIVED BY - SIGNATUR
	mortar			TIME RE
				DATE

	TIME	
5.00	ROUND	
	TURNAROUND	L
	REQUESTED	DAYS
	REGUI	~
		1-2
		S

במחום	
Ŧ	3
	4
	S

 	:	-3
		 X

PAGES
_ OF _
PAGE /

HOURS

ple
Sam
P
H
¥
e; Pir
File
Job
ent
T.
ера
- De
MO.
Yell
<u> </u>
rato
apo
10
stin
<u> 1</u>
ite.
홋
1
7
CH
100
Ë
lest
Regu
Si
alys
Y.
0
- N
DE L



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807178

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone: FAX:

(602) 437-3737 (602) 470-1341

Samples:

18

PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method: see below

Client Job: 2188JH269 / 1000 N Curiel Street, Eloy

PO Number:

Report Date:

8/9/2018

Date Analyzed:

8/8/2018

Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of sefected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to Identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM	Ana	ivsis	Sum	marv:

Job Number:

201807178

2188JH269 / 1000 N Curiel Street, Eloy

Sample Number		Lab Number		Apparent Sample Type *	Positive Layer Yes or No	
Layer Color	Apparent Layer Ty	pe *	Asbesto	os Results	·	
Sample # <u>6-M-9A1-1</u>		2018-07178-	1	Roofing	Positive Layer? No	-
Layer # 1 black	roofing roll/shingle		no asbes	tos detected		
Sample # <u>6-M-9A2-2</u>		2018-07178-	_	Roofing	Positive Layer? No	
Layer # 1 black	roofing roll/shingle			tos detected		
Layer # 2 black	roofing roll/shingle			tos detected		
Sample # <u>6-M-9A3-3</u>		2018-07178-		Roofing	Positive Layer? No	
Layer # 1 black	roofing roll/shingle			tos detected		
Sample # <u>6-M-9B1-4</u>		2018-07178-	•	Raofing	Positive Layer? No	
Layer # 1 black	roof ply			tos detected		
Sample # <u>6-M-9B2-5</u>		2018-07178-		Roofing	Positive Layer? No	
Layer #1 black	roof ply			tos detected		
Sample # <u>6-M-9B3-6</u>		2018-07178-		Roofing	Positive Layer? No	
Layer #1 black	roof ply			tos detected		
Sample # <u>6-M-9C1-7</u>		2018-07178-	•	Adhesive/caulk	Positive Layer? No	
Layer #1 white	coating			tos detected		
Sample # <u>6-M-9C2-8</u>		2018-07178-	8	Adhesive/caulk	Positive Layer? No	
Layer # 1 white	coating			tos detected		
Sample # <u>6-M-9C3-9</u>		2018-07178-	9	Adhesive/caulk	Positive Layer? No	
Layer # 1 white	coating			tos detected		
Sample # <u>6-M-9D1-10</u>		2018-07178-	10	Adhesive/caulk	Positive Layer? Yes	
Layer # 1 black	caulk		10-20%	chrysotile asbestos		
Sample # <u>6-M-9D2-11</u>		2018-07178-	11	Adhesive/caulk	Positive Layer? No	
Layer #1 black	caulk		no asbes	tos detected		
Sample # <u>6-M-9D3-12</u>		2018-07178-	12	Adhesive/caulk	Positive Layer? Yes	
Layer # 1 black	caulk	1	10-20%	chrysotile asbestos		
Sample # <u>6-M-10A1-13</u>		2018-07178-	13	Cementitious	Positive Layer? No	
Layer #1 gray	block		no asbes	tos detected		
Sample # 6-M-10A2-14		2018-07178-	14	Cementitious	Positive Layer? No	
Layer #1 gray	block		no asbes	tos detected		
Sample # <u>6-M-10A3-15</u>		2018-07178-	15	Cementitious	Positive Layer? No	
Layer #1 gray	block	ı	no asbes	tos detected		
Sample # 6-M-1081-16		2018-07178-	16	Cementitious	Positive Layer? No	
Layer # 1 gray	mortar		no asbes	tos detected		
Sample # 6-M-10B2-17		2018-07178-	17	Cementitious	Positive Layer? No	
Layer # 1 gray	mortar		no asbes	tos detected		
Sample # 6-M-10B3-18		2018-07178-	18	Cementitious	Positive Layer? No	
Layer #1 gray	mortar		10 asbes	tos detected		

Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

Phone; 602-276-6139

5025 S. 33rd Street

Sample 6-M-9A1-1 Lab Number 2018-07178-1 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, filler Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 Flb 2 Flb 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Oil Col Par Col Per RI Par RI Per glass fiber α 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9A2-2 Lab Number 2018-07178- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous No # Layers 2 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, filler Layers Percents of Each Fiber **Layer Type** Color Friability FIb 1 Fib 2 Fib 3 FIb 4 FIb 5 Fib 6 roofing roll/shingle 60 5-10% black roofing roll/shingle 40 black 5-10% Total % 100 Overall % 5-10% Fiber identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo ы Elg Ext Oll Col Par Col Per RI Par RI Per 1 glass fiber 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9A3-3 Lab Number 2018-07178-3 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, filler Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Flb 4 Flb 5 Fib 6 roofing roll/shingle 100 black 5-10% 1 Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Isa Plea Bí Elg Ext OII Col Par Col Per RI Par RI Per glass fiber CL D 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

Lab Number 2018-07178- 4

201807178

2188JH269 / 1000 N Curiel Street, Elo

Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 roof ply 100 60-70% black 1 Total % 100 Overall % 60-70% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Elp Color Mrph Ext Iso Pieo Bi OII Col Par | Col Per | RI Par | RI Per cellulose fiber u 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9B2-5 Lab Number 2018-07178-5 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber Layer Type Color Friability Flb 1 Flb 2 Fib 4 Fib 5 Fib 6 roof ply 100 black 60-70% Total % 100 Overall % 60-70% Fiber Identification: celulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per cellulose fiber 1 W F N N Н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. **Sample** 6-M-9B3-6 Lab Number 2018-07178-6 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 4 FIb S Fib 6 roof ply 100 black 60-70% 1 Total % 100 Overall % 60-70% Fiber Identification: cellulose fiber Refractive Index Determinations Flbers Color Mrph Iso Pieo Elg Ext Oli Col Par Col Per RI Par RI Per cellulose fiber W N N н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Sample 6-M-9C1-7 Lab Number 2018-07178-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): polymer, filler, Layers Percents of Each Fiber Layer Type Color Friability FIb 1 FIb 2 Fib 3 Fib 4 FIb 5 FIb 6 coating 100 white 1 n.d Total % 100 Overall % Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per none 2 3 4 5 Sample Analytica: Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9C2-8 Lab Number 2018-07178-8 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): polymer, filler, Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Flb 3 FIb 4 Fib 5 Fib 6 coating 100 white n.d. Total % 100 Overall % Fiber Identification: Refractive Index Determinations **Fibers** Mrph Iso Pleo Color Bi Elg Ext Oil Col Par Col Per RI Par RI Per 1 none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9C3-9 Lab Number 2018-07178-9 Sampled: 8/6/2018 Condition: acceptable 8/9/2018 Analyzed By DMS An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): polymer, filler, Percents of Each Fiber Layer Type Color Friability Flb 1 Fib 2 Fib 3 Fib 4 Fib S Fib 6 coating 100 white n.d. 1 Total % 100 Overall % n.d Fiber Identification: none Refractive Index Determinations **Fibers** Col Par Col Per RI Par RI Per Color Mrph Iso Pleo Bi Elg Ext Oil поле 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample bag is mislabeled as "6-M-9C3-12".

201807178

2188JH269 / 1000 N Curiel Street, Elo

Sample 6-M-9D1-10 Lab Number 2018-07178- 10 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS B/9/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 caulk 100 black 1 10-20% Total % 100 **Overall %** 10-20% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Mrph Îso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per chrysotile asbestos N P 1.550 vb/g 1.556 1.549 pb/r 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. **Sample** 6-M-9D2-11 Lab Number 2018-07178- 11 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An7 OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber # Layer Type Color Friability Flb 1 Flb 2 Fib 3 FIb 4 Fib 5 Fib 6 caulk 100 black 10-20% Total % 100 Overall % 10-20% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo 81 Elg Ext 011 Col Par | Col Per | RI Par | RI Per cellulose fiber W н U 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 6-M-9D3-12 Lab Number 2018-07178- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Adhesive/caulk **Sticky** Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber # Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 caulk 100 black 10-20% 1 100 Total % Overall % 10-20% chrysotile asbestos Fiber Identification: **Refractive Index Determinations** Fibers Color Mrph Iso Pleo Elg OH Ext Col Par | Col Per RI Par RI Per chrysotile asbestos W N N A 1.550 1.556 1.549 vb/g pb/r 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807178

2188JH269 / 1000 N Curiel Street, Elo

Sample 5-M-10A1-13 Lab Number 2018-07178- 13 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 **Apparent Smp Type** Cementitious An? OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Color **Layer Type** Friability Fib 1 FIb 2 Flb 3 Fib 5 Fib 6 100 gray n.d. 100 Total % **Overall %** n.d. Fiber Identification: Refractive Index Determinations Fibers Mrph Iso Pieo BI Elg Ext Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 6-M-10A2-14 Condition: acceptable Lab Number 2018-07178- 14 Sampled: 8/6/2018 Analyzed By DMS 8/9/2018 An? OK **Apparent Smp Type Cementitious** Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Color Friability Layer Type FIb 1 Fib 2 Fib 3 Flb 4 Fib 5 FIb 6 block n.d Total % 100 Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Col Par Col Per RI Par RI Per none 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 6-M-10A3-15 Sampled: 8/6/2018 Lab Number 2018-07178-15 Condition: acceptable Analyzed By DMS B/9/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid An7 OK Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Flb 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 block 100 Total % 100 Overall % Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Oil Col Par Col Per RI Par RI Per none 3 4 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

201807178

2188JH269 / 1000 N Curiel Street, Elo

Sample 6-M-10B1-16 Lab Number 2018-07178- 16 Sampled: 8/6/2018 Condition: acceptable Analyzed By DMS 8/9/2018 An7 OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Color **Layer Type** Friability Fib 1 Fib 2 FIb 5 Fib 6 100 2 gray n.d. 100 Total % Overall % n.d. Fiber Identification: Refractive Index Determinations **Fibers** Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per none 2 3 4 S 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 6-M-10B2-17 Lab Number 2018-07178- 17 Condition: acceptable Sampled: 8/6/2018 Analyzed By DMS 8/9/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 FIb 3 Fib 4 Fib 5 FIb 6 mortar 100 2 n.d. Total % 100 Overall % n.d. Fiber Identification: none **Refractive Index Determinations** Fibers Color Mrph Iso Piec Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 6-M-10B3-18 Sampled: 8/6/2018 Lab Number 2018-07178- 18 Condition: acceptable Analyzed By DMS 8/9/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Lavers Percents of Each Fiber Layer Type Color **Friability** Fib 1 Fib 2 Flb 3 Fib 4 Fib 5 Fib 6 mortar 100 n.d. Overall % Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pico Bi Elg Ext Oil Col Par Col Per RI Par RI Per none 3 4 5 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Phone: 602-276-6139

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers, CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bl=birefringence - may be None, Low, Medium or High
Eig=sign of elongation - may be +, - or B (both); Ext=extinction - may be Paratel, Oblique, None or Undulating; Oll=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

DAVID M. SCHALLER

Printed: 09-Aug-18 Original Print Date: 09-Aug-18

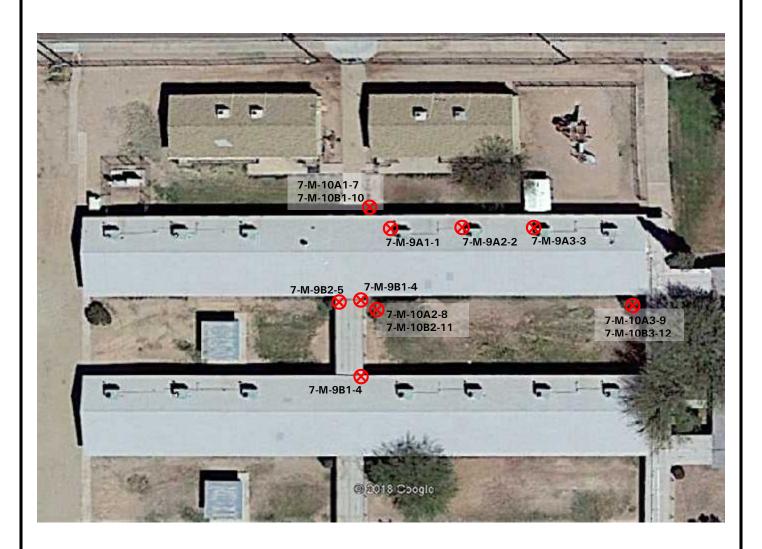
Approved Accreditation Signatory



FIGURE 3A - SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 7 (RPA Building A)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

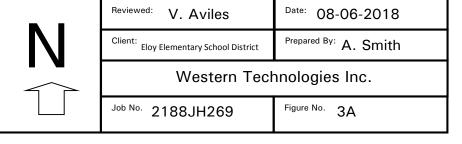


FIGURE 3B – ASBESTOS CONTAINING BUILDING MATERIALS LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 7 (RPA Building A)

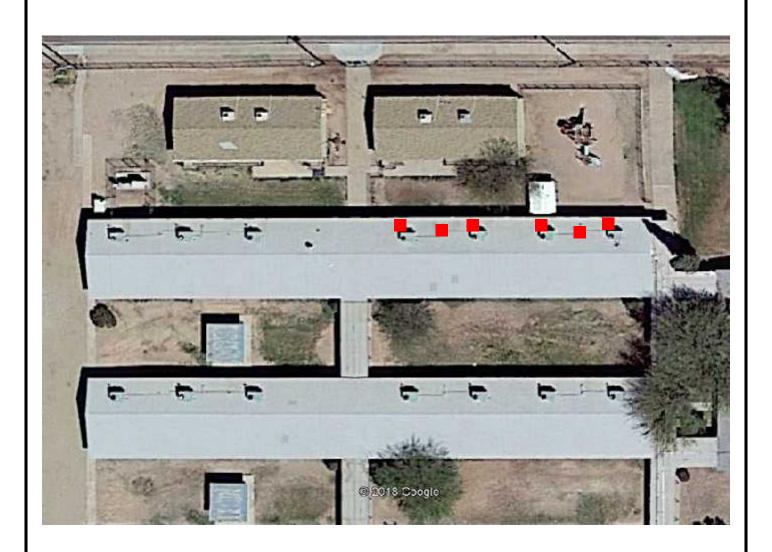
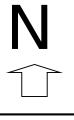


DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed:	V. Aviles	
Reviewed:	V. Aviles	

Date: 08-06-2018

Client: Eloy Elementary School District

Prepared By: A. Smith

Western Technologies Inc.

Figure No. 3B

TABLE 3 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 7 (RPA Building A)	FRIABLE/ NON FRIABLE	PROJECT NO) : 2188JH26	59	
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
7-M-9A1-1, 9A2-2 and 9A3-3	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	NO
7-M-9B1-4, 9B2-5 and 9B3-6	Rolled Asphalt	Breezeway	NF	Misc	420	NO
7-M-10A1-7, 10A2-8 and 10A3-9	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,360	NO
7-M-10B1-10, 10B2-11 and 10B3-12	Mortar (for concrete block)	Exterior Walls	NF	Misc	1360 area	NO

Geotechnical Environmental Inspections Materials	Western Technologies Inc. The Quality People Since 1955
CLIENT: Eloy Elemei	
SITE ADDRESS: 1000 Arizona	North Curiel Street, Eloy,

Inspections Materials wt-us.	The Quality I Since 1955	People	ASE	SESTOS SURV	EY SAMPLE LOG						
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 218	38JH269	Page of						
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE: E	loy Elementar	y School -						
Arizona			Bld	97							
HOMOGENEOUS N	IATERIAL:		LOCATION BY FUNCTIONAL SPACE (FS):								
Stean	+		Poor								
SAMPLE NUMBER:	1		TOTAL QUANTITY:								
7-M-	94		SF: C LF:								
Sequential #	1- \	2-2	3-3	DI	NOTES						
Location/FS	R00f -			Ba	CK ₁						
Sample Origin	SW SE	NW NE SW SE	NW NE SW SE	Ra	ck, of Penahations						
E/W Location	COSTE	WHE	24AE	1							
N/S Location	4845	495	4845								
Height ^ Floor	OCH -	1	-7								
Component	f(000	,									
Friable	Yes No	Yes 🐠	Yes (No								
	Good	Sood	GOOD								
Condition	Damaged	Damaged	Damaged								
	Sig. Dam.	Sig. Dam.	Sig. Dam.								
7	None	None	None								
Accessibility	Rare O&M	Rare O&M	Rare O&M								
	General	General	General								
Activity Level	Омн	Фм н	L) M H		d.						
Disturbance Potential	L/N PD (SD)	L/N PD (SD)	L/N PD @SD								
% ASBESTOS	2-5%-		>								
TYPE ASBESTOS	Chrisolie-		7)								
		INSPECTOR(S	S) / ACCREDITATIO	N NO.	4.5.5						
☐ Vicky Aviles, The Asbest					Expiration April 6, 2019						
Suzette Numkena, TAI, IJason Criss, TAI, ID No. 0		•	· 1		D, Expiration November 3, 2018 opiration April 6, 2019						
☐ Matt Steinhoff, TALID N					tpiration April 6, 2019 171220001, Exp. December 20, 2018						
Ryan Fasci, TAI ID No. G					. November 8, 2018						
SIGNATURE:	My ,	145		DATE: 8/6/	2018						
		os are entered upon	completion of laborato	ry analysis. The da	ite of analysis is available on the						
li .	ry report. asbestos detected.										

081WTI 111014

Geotechnical Environmental		Western Technologies Inc.
Inspections Materials	4	The Quality People Since 1955

Inspections Materials	The Quality I Since 1955	People	ASBESTOS SURVEY SAMPLE LOG								
wt-us				-1							
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 21	88JH269	Page 2 of 4.						
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary	School -						
Arizona			Bldg	7							
HOMOGENEOUS N	IATERIAL:	•	LOCATION BY FUNCTIONAL SPACE (FS):								
Robled	Asphalt		Breze way TOTAL QUANTITY:								
SAMPLE NUMBER:			TOTAL QUANTIT	Y: /							
7-M-	9B		sf: 420	LF:							
Sequential #	1-,4	2- 5	3- (NOTES						
Location/FS	Breezeway		>								
Sample Origin	NW (NE) SW SE	NW NE SW SE	NW NE SW(SE)								
E/W Location	oftw	OFFE	oftw								
N/S Location	045	offs	OFW								
Height ^ Floor	oft -		->								
Component	Floor-		-								
Friable	Yes 😡	Yes No	Yes No	Yes (No							
Condition	Good Damaged	Good Damaged	Good Damaged								
	Sig. Dam.	Sig. Dam.	Sig. Dam.								
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General								
Activity Level	LMH	LMH	LMH								
Disturbance Potential	L/N PD PSD	L/N PD PSD	L/N PD PSD		-						
% ASBESTOS	- OU										
TYPE ASBESTOS											
	,	INSPECTOR(S	S) / ACCREDITATIO	N NO.							
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. 0☐ Matt Steinhoff, TAI ID No. 0☐ Ryan Fasci, TAI ID No. 0☐ SIGNATURE:	ID No. G8456, Expiratio 37027, Expiration May Io. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	□ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 □ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 □ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 □ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 DATE: 8/6/2018								
Remarks: The perc	ent and type asbestory report. asbestos detected.	os are entered upon	completion of laborate	<u> </u>	te of analysis is available on the						

Geotechnical Environmental Inspections Materials	Western Technolo The Quality F Since 1955	ogies Inc. People	А	SBESTOS SURVI	EY SAMPLE LOG					
CLIENT: Eloy Elen		trict	PROJECT NO: 2188JH269 Page							
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -							
HOMOGENEOUS	MATERIAL:		LOCATION BY	FUNCTIONAL SPA	CE (FS):					
Concrete			Extensor u	bl(s						
SAMPLE NUMBER	R:		TOTAL QUANT							
7-M-	IOA		SF: 13606	LF:						
Sequential #	1- 7	2- \$	3-9		NOTES					
Location/FS	Externa walk		>	01 16	1011					
Sample Origin	NW NE SW SE	NW NE	NW NE SW SE	1500 K	4/1/8/1					
E/W Location	OHE	OFFE	OFTW							
N/S Location	845	EXTN	CFT N							
Height ^ Floor	424	1 30	DH							
Component	wall	Wall	Wall							
Friable	Yes No	Yes (No	Yes (No	-						
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Good Damaged Sig. Dam.	151						
Accessibility	None Rare O&M General	None Rare O&M	None Rare O&M General							
Activity Level	Ø M H	€ DMH	Омн							
Disturbance Potential	L/N PD PSD	L/N PD PSD	L/N PD PSD							
% ASBESTOS	ND-		G							
TYPE ASBESTOS										
	·	INSPECTOR(S	S) / ACCREDITAT	ION NO.						

ш	vicky Aviles,	The Aspestus Institute	(TAI), G/USI,	Expiration May	/ D, ZU12

- 🗆 Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

Geotechnical Environmental Inspections Materials	Western Technol The Quality Since 1955	ogies Inc. People	Δ	SBESTOS SURV	EY SAMPLE LOG				
CLIENT: Eloy Elen		trict	PROJECT NO: 2	2188JH269	Page 4 of 4.				
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -						
HOMOGENEOUS	MATERIAL:		LOCATION BY	FUNCTIONAL SPA	ACE (FS):				
Ma	Har		Exten	Molla					
SAMPLE NUMBER			TOTAL QUANT	 	<u> </u>				
9-M.	-10B		SF: 1360 A	frea LF:					
Sequential #	1- 10	2- [[3-12		NOTES				
Location/FS	Extende Walls		7	1	CCD - a a l				
Sample Origin	NW NE SW SE	NW NE	NW NE SW SE	40	concrete				
E/W Location	EST E	OF E	OFF VI	\mathbb{F}	olocak				
N/S Location	EA3	047-N	OFF N						
Height ^ Floor	124	4	OF						
Component	wall-		>						
Friable	Yes 📢	Yes No	Yes 🔞						
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.						
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General						
Activity Level	€M H	Ом н	(L)M H						
Disturbance Potential	L/N PD PSD	L/N PD (SD)	L/N PD(ESD)						
% ASBESTOS	NO								

INSPECTOR(S) / ACCREDITATION NO.

- ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- 🗖 Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- $\hfill \square$ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- 🔲 Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- 🛕 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

TYPE ASBESTOS

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

Western Technologinc.	
0	

| Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004

K ASB	ington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401 ake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115
ONI	egas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118
	on • (3.20) /48-2.26 • 1/48-0435 • 3480 South Dodge Boulevard • A.2. 85/13 ngo • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303
<u>ن</u>	off • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305
_	nix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040
	The state of the s

				W 92													10.00	05-10	10000									
CHAIN OF CUSTODY	☐ INDUSTRIAL HYGIENE ☐ MICROBIAL	🛛 ASBESTOS 🔲 LEAD	PROJECT MANAGER	EMAIL ADDRESS		Snalp leylor Lualysis	COMMENTS	scalant black		, }	rolled asonult	-V 1	٧-	ploch		→	north)			÷		<i></i>)	DATE TIME RECEIVED BY - SIGNATURE	REQUESTED TURNAROUND TIME	DAYS
			_	∀	/ ARE,	TUME																	Ц					7
	87113	វេវា	TEST METHOD			- v	¥	~																	→			(/ X
28630 85713	303 • NM • NM	л 87401 JT 8411	TEST M							_												\forall				TURE	1	\subseteq
AZ 850 e C • AZ rd • AZ	CO 81. V 89112 Ce, N.E	ue • NA				•																				- SIGNATURE	TIME	
Koad ve, Suit ouleva	No. 2 • Sad • N Ston Pla	ia Aven ndale ⊡	SAMPLE TYPE			A3T/																				RELINOUISHED BY		
adway etto Dri odge B	Drive, Post Re Vashing	h Lorer est Law	SAMP			8A/																				RELINOU	DATE	
East Bro Sandre South D	Sawyer 33 West 8305 V	30 Sout 420 We			VINO	гк 1. ОF С		×														4			ストイ		IRE	\
• 3/3/ East Broadway Road • AZ 85040 2 • 1040 Sandretto Drive, Suite C • AZ 8630 • 3480 South Dodge Boulevard • AZ 85713	4 • 278 54 • 66: -2963 •	293 • 4 -3653 •		33,41	V 1140	5 30								ay Co							1				-		- SIGNATURE)
Phoenix • (602) 437-3737 • 1470-1341 • 3737 East Broadway Koad • AZ 85040 Prescott • (928) 443-5010 • (443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Tucson • (520) 748-2262 • f748-0435 • 3480 South Dodge Boulevard • AZ 85713	Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118 Albuquerque • (505) 823-4488 • f 821-2963 • 8305 Washington Place, N.E. • NM 87113	Farmington • (505) 327-4966 • (327-5293 • 400 South Lorena Avenue • NM 87401 Salt Lake City • (801) 972-3650 • (972-3653 • 420 West Lawndale Drive • UT 84115	ļ.	FLOY		دعا	SAMPLE LOCATION	(M																		IVED BY SIGNATURE	EIVED FOR ABORATORY BY -)
Phoenix • (602) 4 Prescott • (928) 4 Tucson • (520) 74	Durango • (970) 3 Las Vegas • (702) Albuquerque • (5	Farmington • (50) Salt Lake City • (8)	PROJECT ADDRESS	PURCHASE ORDER NO.		SAMPLER - PLEASE PRINT NAME A. SAWALM		BWICKING		1	*		<u> </u>													Wolfe 15:32	崖/	
			ROJECT	OCC I		A C	TIME																			S/C/	DAT	
gies	ople	ш	_			0.7	DATE	3/40/10											<u> </u>	.				1				
Western Technologies Inc	The Q <u>uality</u> People Since 1955	www.wt-us.com	(**			1 1	9 1	2-2	28	17 -	2.5	26	1-7	28	3-9	0-1	2-11	8-12	中	2- H	3-15	چ	中	3-18	# 1 (ER P	
Western Technol	The Qui	mmm		ARTHE A	1269	SWATURE	TIFICAT	Ψ	fe en		0	2	Ŋ.	4	2	8	2	O	8	f	2	61,	1	2	נא	SIGNATUR	SIGNATU	
			l	C.M. P. C. JOB NO.	3.74	- 816	SAMPLE IDENTIFICATION	6-W	-)	1 - g	_	}	M-10		4	1-18	-	ゔ		-	7			P	SHED BY -	SAED BY.	
			PROJECT NAME	LC MY JOB WT JOB W	218	SAMPLER Off LL	SAMP	7-1			N-6			7-M			7-1			1-			7			RELINGUISHED BY	RELINGUI	

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

PAGES

Review of Analysis Request (Initials)

352 - 1993 ©03/04/11 WTI, Inc.



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807177

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone: FAX:

(602) 437-3737 (602) 470-1341

Samples:

Report Date:

12 PL

PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 2188JH269 / 1000 N Curiel Street, Eloy

8/9/2018

Date Analyzed:

8/9/2018

PO Number: Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM Analysis Summar	y:	Job Num	ber:	201807177	2188JH269 / 1000 N Curiel Street, Eloy
Sample Num	ber Lab	Number	Apparent	Sample Type *	Positive Layer Yes or No
Layer Color	Apparent Layer Type *	Asbe	stos Results		
Sample # 7-M-9A1-1	201	8-07177- 1	Roofing		Positive Layer? Yes
Layer #1 black	caulk	2-5%	chrysotile ast	estos	
Sample # <u>7-M-9A2-2</u>	201	8-07177- 2	Roofing		Positive Layer? Yes
Layer # 1 black	caulk	2-5%	chrysotile ast	estos	•
Sample # <u>7-M-9A3-3</u>	201	8-07177- 3	Roofing		Positive Layer? Yes
Layer #1 black	caulk	2-5%	chrysotile ast	estos	•
Sample # 7-M-9B1-4	201	8-07177- 4	Roofing		Positive Laver? No
Layer # 1 black	roofing roll/shingle	no ast	bestos detecte	d	•
Sample # <u>7-M-9B2-5</u>	201	8-07177- 5	Roofing		Positive Laver? No
Layer # 1 black	roofing roll/shingle	no ast	bestos detecte	d	,
Sample # 7-M-9B3-6	201	8-07177- 6	Roofing		Positive Layer? No
Layer #1 black	roofing roll/shingle		bestos detecte	ď	
Sample # 7-M-10A1-7	201	8-07177- 7	Cementit	ious	Positive Layer? No
Layer #1 gray	block	no ast	bestos detecte	d	
Sample # 7-M-10A2-8	201	8-07177- 8	Cementit	lous	Positive Layer? No
Layer #1 gray	black	no ast	bestos detecte		
Sample # 7-M-10A3-9	201	8-07177- 9	Cementit	ious	Positive Layer? No
Layer # 1 gray	black		bestos detecte		
Sample # 7-M-10B1-10	201	8-07177- 10	Cementit	ious	Positive Layer? No
Layer #1 gray	mortar	no ast	bestos detecte	d	
Sample # 7-M-10B2-11	L 201	8-07177- 11	Cementit	ious	Positive Layer? No
Layer # 1 gray	mortar		estos detecte		
Sample # <u>7-M-10B3-12</u>	201	8-07177- 12	Cementit	ious	Positive Layer? No

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

no asbestos detected

5025 S. 33rd Street

Page 2 of 8

201807177

2188JH269 / 1000 N Curiel Street, Elo

Sample 7-M-9A1-1 Lab Number 2018-07177- 1 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Lavers Percents of Each Fiber Color Layer Type Friability FIb 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 caulk 2-5% 100 black 1 Total % 100 Overall % 2-5% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Elg Color Pieo OII Col Par Col Per RI Par RI Par Mrph Isa Bi Ext 1 chrysotile asbestos W 1.550 db/ly sb/o 1.561 1.553 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 7-M-9A2-2 Lab Number 2018-07177- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An7 OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber **Layer Type** Color Friability FIb 1 Fib 2 Fib 3 FIb 5 Fib 6 FIb 4 caulk 100 black 1 2-5% Total % 100 Overall % 2-5% Fiber Identification: chrysctile asbestos Refractive Index Determinations Fibers Color Mrph Iso Pieo ы Ela Ext 011 Col Par Col Per RI Par RI Per chrysotile asbestos W N 1,550 db/ly sb/o 1.561 1.553 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 7-M-9A3-3 Lab Number 2018-07177- 3 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solld Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Percents of Each Fiber # Layer Type Color Friability Fib 1 FIb 2 FIb 3 FIb 4 Fib 5 Fib 6 caulk 100 black 2-5% Total % 100 Overall % 2-5% Fiber Identification: chrysotile asbestos Refractive Index Determinations **Fibers** Color Oil Mrph Iso Plea Bi Elg Ext Col Par | Col Per | RI Par | RI Per chrysotile asbestos W 1.550 N N db/ly sb/o 1.561 1.553 2 3 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

201807177

2188JH269 / 1000 N Curiel Street, Elo

Sample 7-M-9B1-4 Lab Number 2018-07177- 4 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber Layer Type Color Friability Flb 1 FIb 2 Flb 3 Fib 4 FIb 5 FIb 6 roofing roll/shingle 100 black 5-10% 1 1 Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo Bi Elg Ext Oil Col Par | Col Per | RI Par | RI Per glass fiber 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 7-M-9B2-5 Lab Number 2018-07177- 5 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber # Layer Type Color Friability Flb 1 FIb 2 Flb 3 Fib 4 FIb 5 Flb 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations **Fibers** Pleo Color Mreh I Iso BI Elg Ext Col Par | Col Per | RI Par | RI Per 1 glass fiber ÇL. D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent, Sample 7-M-9B3-6 Lab Number 2018-07177-6 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/9/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes Pos Layer? No # Layers 1 Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber **Layer Type** Calor Friability Fib 1 Fib 2 FIb 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Oll Col Par Col Per RI Par RI Per glass fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807177

2188JH269 / 1000 N Curiel Street, Elo

Sample 7-M-10A1-7

Lab Number 2018-07177-7

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018 An7 OK **Apparent Smp Type** Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Lay	reis				Percents of Each Fiber									
#	Layer Type	%	Color	Friability	FIb 1	Flb 2	Fib 3	Fib 4	Fib 5	Fib 6				
1	block	100	gray	1	n.d.	I -	-							
	Total %	100		Overall %	n.d.	-	I -	-	-	-				
			Elber I	dantifications	0000	T	T	1		1				

	Fibers										Refractive Index Determinations					
	IDEIS	Color	Mrph	Îso	Pieo	BI	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per			
1	none															
2					2000											
3																
4																
5										1 - 3						
6							7-			-			-			

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 7-M-10A2-8

Lab Number 2018-07177-8

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

An? OK

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

LHY	yers				Percents of Each Fiber										
#	Layer Type	%	Color	Friability	Fib 1	FIb 2	Fib 3	Fib 4	Fib 5	Fib 6					
1	block	100	gray	1	n.d.		-		-	-					
	Total %	100		Overall %	n.d.	-	-	-	-	-					
			Fiber Ide	entification:	none										

	1	20.1	576, 350	100					F	tefractive I	ndex Dete	rminatio	15
	Fibers	Color	Mrph	Iso	Pleo	BI	Elg	Ext	Oll	Col Par	Col Per	RI Par	RI Per
1	none										1		
2													
3				COST									
4												-	
5	The second of th				-					-			
6						10.07						1	

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Phone: 602-276-6139

201807177

2188JH269 / 1000 N Curiel Street, Elo

Sample 7-M-10A3-9

Lab Number 2018-07177- 9

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

An? OK

Pos Layer? No

		* Part 1/21	-
Non-Fibrous Com	ponents (in approx	. decreasing order):	powder, rock,

# Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fi 1 block 100 gray 1 n.d				Percents of				rs .			
1 block 100 gray 1 n.d	5 Fib 6	Flb 5	Fib 4	FIb 3	FIB 2	Flb 1	Friability	Color	%	Layer Type	#
		-	-		-	n.d.	1	gray	100	biock	1
Total % 100 Overall % n.d		-	-	-		n.d.	Overall %		100	Total %	

mth							Refractive Index Determinations						
Fibers		Color	Mrph	Iso	Pleo	BI	Elg	Ext	Oit	Col Par	Col Per	RI Par	RI Per
1	none										9.3	7.00	
2		1										-	
3				. 15		7							
4										100000			
5		14 14 14 14 14											
6									1 month	1	-		

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 7-M-10B1-10

Lab Number 2018-07177- 10

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

An? OK

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Lay	/ers				Percents of Each Fiber											
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	FIb 6						
1	mortar	100	gray	2	n.d.				-							
	Total %	100		Overall %	n.d.	-	-			-						
			Fiber I	dentification:	nona											

	m14	98 45		100				100	1	Refractive I	ndex Dete	rmination	ns .
	Fibers	Color	Mrph	Iso	Pieo	BI	Elg	Ext	OH	Col Par	Col Per	RI Par	RI Per
1	none	1 2 2 2 2								2			
2													
3			100						4.00				
4					700	100					7-10		3
5						-0.00					300	1	
6		100				-			100				

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Job Number:

201807177

2188JH269 / 1000 N Curiel Street, Elo

Sample 7-M-1082-11

Lab Number 2018-07177- 11

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Lay	yers						Percents o	f Each Fiber		
#	Layer Type	%	Color	Friability	Flb 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	mortar	100	gray	2	n.d.	-		-	-	
	Total %	100		Overall %	n.d.		-	-	-	-
			Elbar I	dentification:	none		1		1	

	601								F	lefractive I	ndex Dete	rmination	ns
-	Fibers	Color	Mrph	Iso	Pleo	BI	Elg	Ext	Oll	Col Par	Col Per	RI Par	RI Per
1	none				-				1000	()			
2		2 3.00										-	
3												0 0	100000
4	100000000000000000000000000000000000000						-				-		
5													75.5
6			1						-				

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 7-M-10B3-12

Lab Number 2018-07177- 12

Sampled: 8/6/2018

Condition: acceptable

Analyzed By MAC

8/9/2018

An? OK

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Lity	rers						Percents o	f Each Fiber	61 - 10	
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Flb 3	Fib 4	Fib 5	Fib 6
1	mortar	100	gray	2	n.d.	-		-		
	Total %	100		Overali %	n.d.	-	-	-		
			Fiber I	dentification:	none				I	

	400.						100		F	tefractive I	ndex Deter	mination	15
	Fibers	Color	Mrph	Iso	Pleo	BI	Eig	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3	h strange	10000		-						1			
4	E	2 -	3									<u> </u>	
5										i			
6			1										

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends; Define to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/iy=dark blue/lemon yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber. RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Phone: 602-276-6139

Analyst: MICHAEL A. COOK

Printed: 09-Aug-18

Original Print Date: 09-Aug-18

, Approved Accreditation Signatory

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

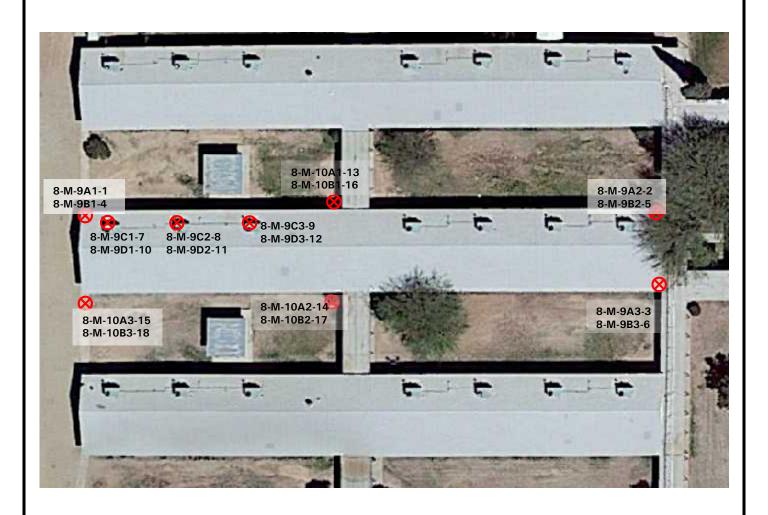
FAX: 602-276-4558



FIGURE 4A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 8 (RPA Building B)



LEGEND

General Sample Collection
Location & Identification
Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

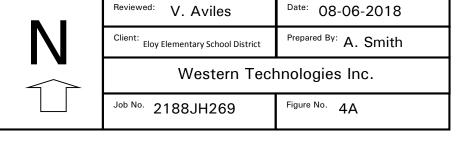


FIGURE 4B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 8 (RPA Building B)

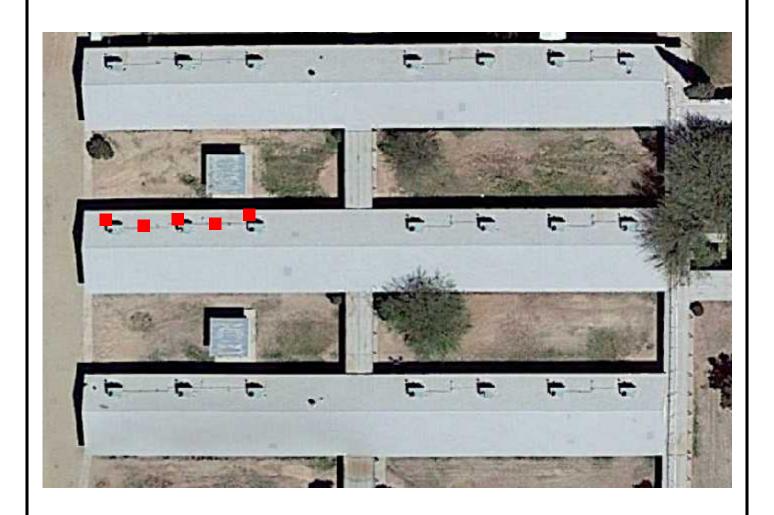


DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed: V. Aviles	Date: 08-06-2018					
Client: Eloy Elementary School District	Prepared By: A. Smith					
Western Technologies Inc.						
Job No. 2188JH269	Figure No. 4B					

TABLE 4 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	IESHAP Asbestos Survey Guriel Primary School 000 North Curiel Street				/ PROJECT NO: 2188JH269		
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM	
8-M-9A1-1, 9A2-2 and 9A3-3	Asphalt Shingle	Roof	NF	Misc	10,140	NO	
8-M-9B1-4, 9B2-5 and 9B3-6	Felt	Roof	NF	Misc	10,140	NO	
8-M-9C1-7, 9C2-8 and 9C3-9	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO	
8-M-9D1-10, 9D2-11 and 9D3-12	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	YES	
8-M-10A1-13, 10A2-14 and 10A3-15	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,240	NO	

TABLE 4 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT:		SITE ID: Building 8 (RPA	FRIABLE/	PROJECT NO) : 2188JH26	59
NESHAP Asbestos Survey		Building B)	NON			
Curiel Primary School			FRIABLE			
1000 North Curiel Street						
Eloy, Arizona						
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
8-M-10B1-16, 10B2-17 and 10B3-18	Mortar (for concrete block)	Exterior Walls	NF	Misc	1,240	NO

Geotechnical Environmental Inspections Materials	Western Technologies Inc. The Quality People Since 1955
wt-us.c	om
CLIENT: Eloy Elemen	tary School District

ASBESTOS SURVEY SAMPLE LOG

Materials	Since 1955	eopie							
wt-us.									
CLIENT: Eloy Eleme	ntary School Dis	trict	PROJECT NO: 21	88JH269	Page of				
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementar	y School -				
Arizona			Bldg 8 + Bldg 9						
HOMOGENEOUS M	IATERIAL:		LOCATION BY FL	LOCATION BY FUNCTIONAL SPACE (FS):					
Assualt	Shingle		B conf						
SAMPLE NUMBER:	July		TOTAL QUANTIT	Υ:					
8-M.9A:	A5		sf: 10140	LF:					
Sequential #	1-1	2-2	3-3		NOTES				
Location/FS	1,00f 8	hoof a	R0099						
Sample Origin	(NW) NE SW SE	NW (NE) SW SE	NW NE SW (SE)						
E/W Location	OFFE	WHO	Oft W	Sau	inles for real				
N/S Location	045	SIS	OHN	Ott	aples for roof dg 8 + Bldg 9				
Height ^ Floor	Oft-			of B	dg 8 + Bldg 9				
Component	floor-				9				
Friable	Yes No	Yes No	Yes No						
	(O)	600A	Good		4.0				
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.	8					
	None	None	None						
Accessibility	Rare	Rare	Rare						
	0&M	O&M	M&O						
A abitation Laural	General	General	General						
Activity Level Disturbance	<u>Ф</u> мн	<u>С</u> м н	Эмн		1 6				
Potential	L/N PD (SD)	L/N PD (SD)	L/N PD (PSD)						
% ASBESTOS	ND-		7						
TYPE ASBESTOS									
		INSPECTOR(S) / ACCREDITATIO	N NO.					
☐ Vicky Aviles, The Asbesto					Expiration April 6, 2019				
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019			E), Expiration November 3, 2018				
☐ Jason Criss, TAI, ID No. G		•		22	piration April 6, 2019				
Matt Steinhoff, TAI ID NRyan Fasci, TAI ID No. G		•	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018						
SIGNATURE:	alle	Shin	DATE: 8/6/2018						
Remarks: The perce	ent and type asbesto	os are entered upon o	completion of laborate	ory analysis. The da	te of analysis is available on the				
laborator	y report. asbestos detected.								
140 - 140	assestos detected.								

Geotechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG						
	nentary School Dis	trict	PROJECT NO: 2188JH269 Page 2 of 6.						
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,		Eloy Elementar	Λ _				
HOMOGENEOUS MATERIAL:			l_ ho	UNCTIONAL SPA	ACE (FS):				
SAMPLE NUMBEI	n: M-9 B		SF: 040	TY: LF:					
Sequential #	1- 4	2- 5	3-6		NOTES				
Location/FS	Roof8	Rnof9	Roof 9						
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE SW SE	Same	des la los				
E/W Location	OFTE	OHW	OPFIN	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	IN TOLL INTS				
N/S Location	alls	offs	OHN	OF B	des for roofs 1898 + Blog9				
Height ^ Floor	1 oft -								
Component	GOD1 -		-5						
Friable	Yes No	Yes No	Yes No						
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.						
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General						
Activity Level	€М Н	Фм н	<u>О</u> м н						
Disturbance Potential	L/N PD PSD	L/N PD (SD)	L/N PD PSD						
% ASBESTOS	ND-		7						
TYPE ASBESTOS									
		INSPECTOR(S) / ACCREDITATI	ON NO.					

- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technolo The Quality F Since 1955	ogies Inc. People	A	SBESTOS SURV	EY SAMPLE LOG	
	nentary School Dist	trict	PROJECT NO: 2	188JH269	0 0	
					Page <u>3</u> of <u>6</u> .	
	000 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -	
Arizona			Bldg		_	
HOMOGENEOUS	MATERIAL:		LOCATION BY	FUNCTIONAL SPA	ACE (FS):	
Seal	ant		hoof	_		
SAMPLE NUMBER			TOTAL QUANT	ITY:		
8-M-	90		SF: 15	LF:		
Sequential #	1- 7	2- 8	3-9		NOTES	
Location/FS	hoof			1.21.5		
Sample Origin	MAY NE	NW NE	NW (NE)	WW	te, 1004 penetral2011s	
	SW SE	SW SE	SW SE	۵	of maladons	
E/W Location	CoffE	18+FE	loff W	\ \h	and powerare	
N/S Location	Cofts	Q675	idis			
Height ^ Floor	Q+-		7	\bigcirc	1U4C =	
Component	Cloar-		 5		1040	
Friable	Yes No	Yes No	Yes (No			
	669	Good	Goods			
Condition	Damaged	Damaged	Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.			
	Rare	None Rare	None Rare			
Accessibility	0&M	O&M	O&M			
	General	General	General			
Activity Level	(L)M H	⊕ M H	€ M H			
Disturbance Potential	L/N PD PSD	L/N PD PO	L/N PD (PSD)		in the second se	
% ASBESTOS	ND		<u> </u>			
TYPE ASBESTOS			A 702			
		INSPECTOR(S	S) / ACCREDITAT	ION NO.		
	estos Institute (TAI), G7031)		Expiration April 6, 2019	
	AI, ID No. G8456, Expiration o. G7027, Expiration May 9		1		7), Expiration November 3, 2018	
	o. G7027, Expiration May 5 D No. G7675, Expiration Oc		 □ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 □ Sean Moggridge, Field Science, Al171220001, Exp. December 2 			
	o. G8292, Expiration March		_	TAI, ID No. G7791, Exp		
SIGNATURE:	COPA	1/ 1/4		DATE: 8/6/2	2018	

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

Remarks:

laboratory report.

ND = No asbestos detected.

		<u> </u>	<u> </u>					
Geotechnical Environmental Inspections Materials wt-us	The Quality 1 Since 1955	ogies Inc. People	Α	SBESTOS SURVEY SAMPLE LOG				
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2188JH269 Page 7 of 6.					
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	: Eloy Elementary School -				
Arizona		- -	Bld	98				
HOMOGENEOUS N	NATERIAL:		LOCATION BY	UNCTIONAL SPACE (FS):				
Se	Eglant		l has	2				
SAMPLE NUMBER:			TOTAL QUANT	ITY:				
4-	N-9D		SF: \(()	LF:				
Sequential #	1- 0	2-	3-12	NOTES				
Location/FS	Soot -		->	Black Roof penutrations				
Sample Origin	NW NE	NW NE	NW NE	Dack				
	SW SE	SW SE	SW SE	Roof penutrations				
E/W Location	COLTE	1847	1641m					
N/S Location	4445	4445	445					
Height ^ Floor	04-							
Component	£1000-							
Friable	Yes Nø	Yes No	Yes No					
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.					
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General					
Activity Level	(1) м н	_ Ø м н	<u>ф</u> мн					
Disturbance Potential	L/N PD (PSD)	L/N PD (SD)	L/N PD@SD					
% ASBESTOS	2-590 -	<u> </u>	- -					
TYPE ASBESTOS	Chrysotile -							
		INSPECTOR(S) / ACCREDITATI	ON NO.				
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. (☐ Matt Steinhoff, TAI ID No. (☐ Ryan Fasci, TAI ID No. (☐ Control of the contr	ID No. G8456, Expiration 37027, Expiration May!	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmq ☐ Ryan Cleary ☐ Sean Moggri	ude, TAI, ID No. G8459, Expiration April 6, 2019 juist, TAI, ID No. G7810, Expiration November 3, 2018 r, TAI, ID No. G8455, Expiration April 6, 2019 idge, Field Science, Al171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018				
SIGNATURE:	<u> </u>	K XIIIO	•	DATE: 8/6/2018				
laborato	ent and type asbestory report. asbestos detected.	s are entered upon	completion of labora	tory analysis. The date of analysis is available on the				

Western Technologies Inc. Geotechnical Environmental

Inspections Materials wt-us	The Quality I Since 1955	People	ASBESTOS SURVEY SAMPLE LOG					
CLIENT: Eloy Elementary School District			PROJECT NO: 2188JH269 Page 5 of 6.					
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementar	y School -			
Arizona		<u> </u>	Bldg	8				
HOMOGENEOUS M	IATERIAL:		LOCATION BY FU	. //-	and the second s			
Concrete			100	300 Ex.	terior Walls			
SAMPLE NUMBER:	-		TOTAL QUANTIT					
B-M-16	DAAC		sf: 1240	LF:				
Sequential #	1-3	2- /4	3-15		NOTES			
Location/FS	Extenor walls		7	Plack	L1"X18"			
Sample Origin	NW (E) SW SE	NW NE	NW NE	MOOK	Z NO			
E/W Location	Offw	SHW	OHE					
N/S Location	8R4S	of 15	OHN					
Height ^ Floor	364	36+	4(+					
Component	1/4/1-		\rightarrow					
Friable	Yes (No	Yes No	Yes (No					
Condition	Good Damaged	Good Damaged	Good					
	Sig. Dam.	Sig. Dam.	Sig. Dam.					
Accessibility	None Rare O&M	None Rare O&M	None Rare O&M					
	General	General	General					
Activity Level	Фм н	(r) w H	DEM H					
Disturbance Potential	L/N PD (PSD)	L/N PD PSD	L/N RD (PSD)					
% ASBESTOS	ND		9	8				
TYPE ASBESTOS								
) / ACCREDITATIO	N NO.				
□ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 □ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 □ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 □ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 □ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 □ Ryan Fasci, TAI ID No. G8292, Expiration May 5, 2019 □ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018								
SIGNATURE:	W AT	KO .		DATE: 8/6/2	2018			
		s are entered upon	completion of laborato	ry analysis. The dat	te of analysis is available on the			
laboratory report. ND = No asbestos detected.								

Environmental Inspections Materials wt-us	The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG				
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2188JH269 Page 6 of 6.				
SITE ADDRESS: 100 Arizona	0 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -				
HOMOGENEOUS MATERIAL:			LOCATION BY	UNCTIONAL SPA	ACE (FS):		
Mater			Blogs	T3 Extent	or walls		
SAMPLE NUMBER:			TOTAL QUANT	ITY:			
8-M-10	B		SF: 1240 Q	rla LF:			
Sequential #	1-1Ce	2-	3-18		NOTES		
Location/FS	Externa wall						
Sample Origin	SW SE	NW NE SW Œ	NW NE				
E/W Location	Offw	Oftw	OHE				
N/S Location	offs	Offi	oftw				
Height ^ Floor	344	3/1	4(+				
Component	Wall -						
Friable	Yes No	Yes (No	Yes No				
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.				
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General				
Activity Level	О м н	(L)м н	∩мн				
Disturbance Potential	L/N PD PSD	L/N PD (PSD)	L/N PD PSD				
% ASBESTOS	NO		Ŷ				

INSPECTOR(S) / ACCREDITATION NO.

SIGNATURE:	DATE: 8/6/2018			
Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019	Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018			
☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018			
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	Ryan Cleary, TA1, ID No. G8455, Expiration April 6, 2019			
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018			
☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019			
☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019			

SIGNATURE: Remarks:

TYPE ASBESTOS

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Western Technologic Inc. The Quality People Since 1955	
0	

logies

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

Tucson • (520) 748-2262 • f748-0435 • 3480 South Dodge Boulevard • AZ 85713 Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113 Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115 Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

0
F
CUS
5
0
7
a
_
天
\overline{c}
O

☐ LEAD
X ASBESTOS

PROJECT MANAGER

TEST METHOD

SAMPLE TYPE

PROJECT ADDRESS

PROJECT NAME

www.wt-us.com

EMAIL ADDRESS	384 ∧ \	The state of the s	CARK		x asshult shingle		}	felt		<i>></i>	500/4nt(white)		り、	scalant (black)		 		Dock
W.	V	V.	2		*													
	,TNO	8.	AVIPE AW: AIIA	δ 8 8	· ×													
		SAMPLER - PLEASE PRINT NAME	W+12		Buldwa 3	>												
_		SAMP		DATE TIME	Yorks											_		
	2188 SHZ69	SAMPLER - SIGNATURE		SAMPLE IDENTIFICATION	8-M-9A1-1 0904/8	2-2	4 3-3	8-M-90 1-4	2-5	4 3-6	5-M-9C 1-7	1 2-8		01-1 Ob -W-8	11-2	7-2-12	8-M-104 1-13	

15

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample Review of Analysis Request (Initials

PAGES

OF

PAGE

HOURS

REQUESTED TURNAROUND TIME

DAYS

R

RECEIVED BY - SIGNATURE

TIME

DATE

- SIGNATUR

RELINGUISHED BY

10) -1

N N

RELINQUISHED B

3-5

DATE

352 - 1993 © 03/04/11 WTI, Inc.



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807175

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples:

Report Date:

18

PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 2188JH269 / 1000 N Curiel Street, Eloy

8/8/2018

Date Analyzed:

8/8/2018

PO Number: Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

iberquant Internal SOP: PLM

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber quantitation. The mounted sildes are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tites reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive Index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM Analysis Summary.	PL	MA	naly	sis .	Sumi	nary	
-----------------------	----	----	------	-------	------	------	--

Job Number:

201807175

2188JH269 / 1000 N Curiel Street, Eloy

Sai	mple Number		Lab Number		Apparent Sample Type *	Positive Layer Yes or No
Layer	Color	Apparent Layer Typ	ne *	Asbesto	s Results	
Sample # 8-1	M-9A1-1 1 black	roofing roll/shingle	2018-07175-	_	Roofing os detected	Positive Layer? No
Sample # 8-1 Layer #	1-9A2-2 1 black	roofing roll/shingle	2018-07175-		Roofing os detected	Positive Layer? No
•	4-9A3-3	roofing roll/shingle	2018-07175-	3	Roofing as detected	Positive Layer? No
-	4-9B1-4	roof ply	2018-07175-	4	Roofing os detected	Positive Layer? No
	4-9B2-5	,	2018-07175-	5	os detected Roofing os detected	Positive Layer? No
•	4-9B3-6	roof ply	2018-07175-	6	os detected Roofing os detected	Positive Layer? No
Sample # 8-1	4-9C1-7	roaf ply	2018-07175-	7	Adhesive/caulk	Positive Layer? No
	1-9C2-8	sealant	2018-07175-	8	os detected Adhesive/caulk	Positive Layer? No
	1-9C3-9	sealant	2018-07175-	9	os detected Adhesive/caulk	Positive Layer? No
	4-9D1-10	sealant 	2018-07175-	10	os detected Roofing	Positive Layer? Yes
	<u>4-9D2-11</u>	caulk	2018-07175-	11	<i>ysotile asbestos</i> Roofing	Positive Layer? Yes
	4-9D3-12	caulk	2018-07175-		ysotile asbestos Roofing	Positive Layer? Yes
Layer # Sample # 8-N	1 black 4-10A1-13	caulk	2018-07175-		ysotile asbestos Cementitious	Positive Layer? No
Layer # Sample # 8-1	1 gray 4-10A2-14	block	2018-07175-		os detected Cementitious	Positive Layer? No
Layer # Sample # 8-N	1 gray 4-10A3-15	block	2018-07175-		os detected Cementitious	Positive Layer? No
Layer #		błock		no asbest	os detected Cementitious	Positive Layer? No
Layer #		mortar		no asbest	os detected Cementitious	
Layer #	1 gray	mortar		no asbest	os detected	Positive Layer? No
Sample # <u>8-N</u> Layer #	<u>4-1083-18</u> 1 gray	mortar	2018-07175-		Cementitious os detected	Positive Layer? No

Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

5025 S. 33rd Street

Phone: 602-276-6139

201807175

2188JH269 / 1000 N Curiel Street, Elo

Sample 8-M-9A1-1 Condition: acceptable Lab Number 2018-07175- 1 Sampled: 8/6/2018 Analyzed By MAC 8/8/2018 Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 FIb 2 Fib 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 1 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo Bi Elg Ext Coi Par Coi Per RI Par RI Per glass fiber ÇL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9A2-2 Lab Number 2018-07175- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber Friability Layer Type Color Fib 1 Fib 2 Fib 3 FIb 4 Flb 5 FIb 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg OII Col Par Col Per RI Par RI Per 81 Ext glass fiber CL. D 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9A3-3 Lab Number 2018-07175- 3 Sampled: 8/6/2018 Condition: acceptable An? OK **Analyzed By MAC** 8/8/2018 **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, Layers Percents of Each Fiber # Layer Type Color Friability Flb 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass liber Refractive Index Determinations Fibers Mrph Iso Pleo Elg Color BI Ext Col Par Col Per RI Par RI Per glass fiber CL Đ 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807175

2188JH269 / 1000 N Curiel Street, Elo

Sample 8-M-981-4 Lab Number 2018-07175-4 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC An? OK 8/8/2018 **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber Layer Type Color Friability Fib 2 FIb 3 Fib 4 FIb 5 Fib 6 roof ply 100 60-70% black 1 100 Total % Overall % 60-70% Fiber Identification: celulose fiber Refractive Index Determinations Fibers Color Col Par Col Per RI Par RI Per Mrph Pieo Bi Elg Iso Ext cellulose fiber W N N U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9B2-5 Lab Number 2018-07175-5 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber **Layer Type** Color Friability Fib 1 Fib 2 Fib 3 Flb 4 Fib 5 Fib 6 roof ply 100 black 60-70% Total % 100 Overall % 60-70% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Iso Pleo Вi Elg Ext Col Par Col Per RI Par RI Per Mrph 1 cellulose fiber w N N н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9B3-6 Lab Number 2018-07175-6 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solld Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber # Laver Type % Color Friability Fib 2 Fib 1 Fib 3 Fib 4 Fib 5 Fib 6 100 roof ply 60-70% Total % 100 Overall % 60-70% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Col Par | Col Per | RI Par | RI Per cellulose fiber W N u N 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

Sample 8-M-9C1-7 Lab Number 2018-07175-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC B/8/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): polymer, mica/vermiculite, filler Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 **ПЬ 3** FIb 4 FIb 5 Fib 6 sealant 100 white 1 n.d. 100 Total % Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Col Par Col Per RI Par RI Per Iso Pieo BI Elg Ext Mrph none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9C2-8 Lab Number 2018-07175-8 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): polymer, mica/vermiculite, filler Layers Percents of Each Fiber Color **Layer Type** Friability Fib 1 Flb 2 FIb 3 Fib 5 FIb 6 sealant 100 white n.d Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo 51 Elg Ext Oil Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9C3-9 Lab Number 2018-07175-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): polymer, mica/vermiculite, filler Layers Percents of Each Fiber # Laver Type % Color Friability Fib 1 Fib 2 Fib 3 FIb 4 Flb 5 Fib 6 sealant 100 n.d. Total % Overall % 100 n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

201807175

2188JH269 / 1000 N Curiel Street, Elo

Sample 8-M-9D1-10 Lab Number 2018-07175- 10 Sampled: B/6/2018 Condition: acceptable Analyzed By MAC An? OK B/8/2018 **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Fib 1 FIb 3 Fib 4 Fib 5 Fib 6 caulk 100 black 2-5% 1 Total % 100 Overall % 2-5% Fiber identification: chrysotile asbestos Refractive Index Determinations Fibers Color Iso Pleo BI Elg Ext Oil Col Par | Col Per | RI Par | RI Per Mrph chrysotlie asbestos 1.561 1.553 db/ly sb/o 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9D2-11 Lab Number 2018-07175-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An7 OK **Apparent Smp Type** Roofing Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 Flb 2 Fib 3 Flb 4 FIb S FIb 6 caulk 100 black 2-5% Total % 100 Overall % 2-5% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Ext Oli Col Par Col Per RI Par RI Per Mrph Iso Pieo Bi Ela 1 chrysotlle asbestos w N N 1.550 sb/a 1.561 1.553 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 8-M-9D3-12 Lab Number 2018-07175- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Roofing Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, filler, Percents of Each Fiber Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fłb 4 Fib 5 FIb 6 caulk 100 2-5% Total % 100 Overall % 2-5% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Mrph Iso Pieo Elg Ext Oil Col Par Col Per RI Par RI Per chrysotile asbestos W N N 1.550 db/ly sb/o 1.561 1.553 2 3 4 5 6 Sample Analytical Note

5025 S. 33rd Street

Phoenix Arizona 85040-2816

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Sample 8-M-10A1-13 Lab Number 2018-07175- 13 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By MAC An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid # Layers 1 Homogeneous Yes Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability FIb 2 FIb 3 FIb 4 Fib 5 Flb 6 block 100 gray 1 n.d. 100 Total % Overall % Fiber identification: Refractive Index Determinations **Fibers** Color Mrph Pleo Col Par | Col Per | RI Par | RI Per BI Ext Iso Elg none 2 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 8-M-10A2-14 Lab Number 2018-07175- 14 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 FIb 2 Fib 4 Fib 5 Fib 6 block 100 n.d gray Total % 100 Overall % n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg BI Ext Col Par | Col Per | RI Par | RI Per 1 none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 8-M-10A3-15 Lab Number 2018-07175- 15 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Percents of Each Fiber Layer Type 96 Calor Friability Fib 1 Fib 2 FIb 3 Fib 4 Fib 5 Fib 6 100 n.d gray Total % 100 Overall % n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Oil Col Par Col Per RI Par RI Per none 3 3 4 5 Б Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample 8-M-10B1-16 Lab Number 2018-07175- 16 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid # Layers 1 Homogeneous Yes Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability FIb 2 Fib 1 FIb 3 FIb 4 Fib 5 FIb 6 100 mortar gray 2 n.d. 100 Total % Overall % Fiber Identification: Refractive Index Determinations Fibers Col Par | Col Per | RI Par | RI Per Color Mrph Iso Pleo Bi Ext Elg none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 8-M-1082-17 Lab Number 2018-07175- 17 Sampled: 8/6/2018 Condition: acceptable **Analyzed By MAC** An? OK 8/8/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber # Layer Type Color Friability Flb 1 Fib 2 Fib 3 Fib 4 FIb 5 Fib 6 mortar 100 n.d. gray Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Elg Color Mrph Iso Pleo 81 Ext Col Par Col Per RI Par RI Per 1 none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 8-M-10B3-18 Lab Number 2018-07175- 18 Sampled: 8/6/2018 Condition: acceptable Analyzed By MAC 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solld Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type 4 Color Friability Fib 1 Fib 2 Fib 3 Fib 4 FIb 5 Fib 6 mortar 100 n.d. gray Total % 100 Overall % n.d Fiber Identification: none Refractive Index Determinations **Fibers** Color Mrph Iso Pleo Elg Ext Oil Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers, CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Eig=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

MICHAEL A. COOK Analyst:

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Approved Accreditation Signatory

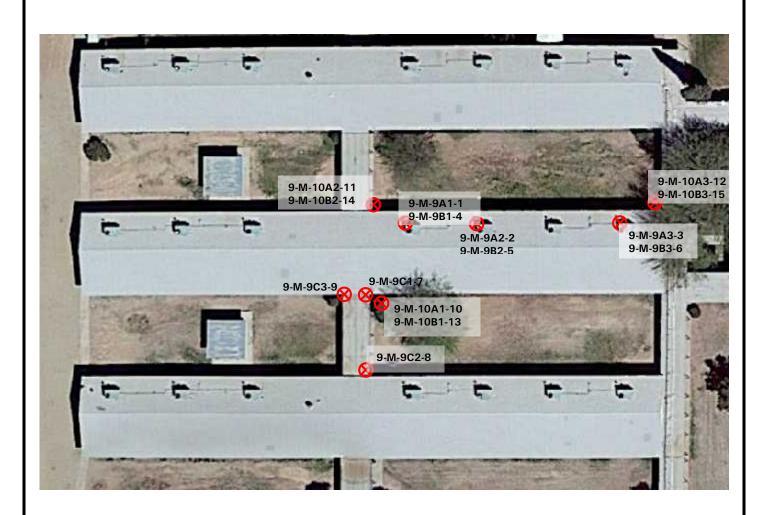


PPENDIX

FIGURE 5A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 9 (RPA Building B)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

	Reviewed: V. Aviles	Date: 08-06-2018				
N	Client: Eloy Elementary School District	Prepared By: A. Smith				
	Western Technologies Inc.					
	Job No. 2188JH269	Figure No. 5A				

FIGURE 5B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 9 (RPA Building B)

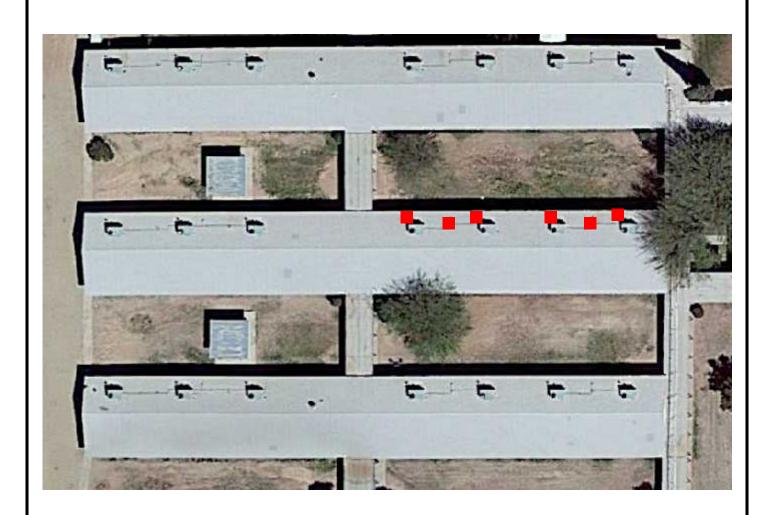
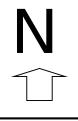


DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed: V. Aviles	Date: 08-06-2018				
Client: Eloy Elementary School District	Prepared By: A. Smith				
Western Technologies Inc.					

Job No. 2188JH269

Figure No. 5B

TABLE 5 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona		SITE ID: Building 9 (RPA Building B)	FRIABLE/ NON FRIABLE	PROJECT NO) : 2188JH26	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
9-M-9A1-1, 9A2-2 and 9A3-3	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
9-M-9B1-4, 9B2-5 and 9B3-6	Sealant (Black, roof penetrations)	Roof	NF	Misc	10	YES
9-M-9C1-7, 9C2-8 and 9C3-9	Rolled Asphalt	Breezeway	NF	Misc	420	NO
9-M-10A1-10, 10A2-11 and 10A3-12	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,360	NO
9-M-10B1-13, 10B2-14 and 10B3-15	Mortar (for concrete block)	Exterior Walls	NF	Misc	1360 area	NO

Geotechnical Environmental Inspections Materials	Western Technol The Quality Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG					
CLIENT: Eloy Elen	nentary School Dis	trict	PROJECT NO: 2	Page 1 of 5.				
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School - Rldg 9					
HOMOGENEOUS	MATERIAL:		LOCATION BY	FUNCTIONAL SPA	ACE (FS):			
Soulant	F		Rose					
SAMPLE NUMBER	R:		TOTAL QUANT	TTY:				
9-M-	74		SF: 15	LF:				
Sequential #	1-	2-7	3- 3		NOTES			
Location/FS	Roof -							
Sample Origin	W NE SW SE	NE SW SE	NW (NE SW SE	more	Penetrabons			
E/W Location	10HE	24AE	ICKTW	hoot	Penetra Donz			
N/S Location	Cefts	CoffS	GAS					
Height ^ Floor	044		-		Alcohot I			
Component	floor-		-9		HUAC			
Friable	Yes No	Yes No	Yes 😡					
V	Geod	Good	Good					
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.					
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General					
Activity Level	Ф м н	Ю м н	Э мн					
Disturbance Potential	L/N PD PSD	L/N PD (PSD)	L/N PD					
% ASBESTOS	NO-		9					
TYPE ASBESTOS				1				

INSPECTOR(S) / ACCREDITATION NO.

- ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
- 🗅 Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technol The Quality Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG					
	nentary School Dis	trict	PROJECT NO: 2	2188JH269 Page 2 of 5.				
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School - Bldg9					
HOMOGENEOUS SCULA	wt		LOCATION BY FUNCTIONAL SPACE (FS):					
SAMPLE NUMBE	_		TOTAL QUANT	птү:				
9-M-	9B		SF: [O	LF:				
Sequential #	1-4	2-5	3-6	NOTES				
Location/FS	ROOF-		-D	1				
Sample Origin	SW SE	NW NE SW SE	NW NE SW SE	Black, On Roof pendrations				
E/W Location	IOFIE	ZIGE	10AW	On Roof Dendrodons				
N/S Location	465	465	465					
Height ^ Floor	0ft -		→ D	1				
Component	£(000-		-5	1				
Friable	Yes No	Yes 😡	Yes 🐠	1				
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.					
Accessibility	None Rare O&M General	Rare O&M General	None Rare O&M General					
Activity Level	Омн	₩ н	Дм н					
Disturbance Potential	L/N PD PSD	L/N PD (PSD)	L/N PD_PSD					
% ASBESTOS	5-10% -		-3					
TYPE ASBESTOS	Chrysotile -		->					
		INSPECTOR(S) / ACCREDITAT	TION NO.				
☐ Suzette Numkena, T/	estos Institute (TAI), G703 Al, ID No. G8456, Expiratio o. G7027, Expiration May	n April 6, 2019 5, 2018	☐ John Holm ☐ Ryan Clear	stude, TAI, ID No. G8459, Expiration April 6, 2019 Iquist, TAI, ID No. G7810, Expiration November 3, 2018 ry, TAI, ID No. G8455, Expiration April 6, 2019 gridge, Field Science, Al171220001, Exp. December 20, 2018				

SIGNATURE:

Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019

☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018

Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Remarks:

Geotechnical Environmental Inspections Materials	Western Technol The Quality Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG					
	mentary School Dis	trict	PROJECT NO: 2	188JH269	Page <u>3</u> of <u>5</u>			
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -					
HOMOGENEOUS	Asohalt		Brea	FUNCTIONAL SPA	ACE (FS):			
SAMPLE NUMBE 9-M-			SF: 420	ITY: ` LF:				
Sequential #	1- 7	2-8	3-9		NOTES			
Location/FS	Brezway -		7					
Sample Origin	SW SE	NW (E) SW SE	NW NE · SW (SE)					
E/W Location	OHE	Offw	OFTW					
N/S Location	OHS	0.45	OHN					
Height ^ Floor	04-		7					
Component	floor-		->					
Friable	Yes No	Yes (No	Yes No					
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.					
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General	_				
Activity Level	Q м н	<u>О</u> м н	L)M H					
Disturbance Potential	L/N PD (PS)	L/N PD (SD)	L/N PD (PSB)					

INSPECTOR(S) / ACCREDITATION NO.

-	vicky Aviles, The Aspestos Institute (TAI), G7031, Expiration May 5, 2018
	Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
_	Janes Color TALLIDADE CTORT Fundanting Agents 2040

- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- \square John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- 🔲 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- □ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

Potential
% ASBESTOS

TYPE ASBESTOS

DATE: 8/6/2018

Remarks:

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials wt-us.c	Western Technologies Inc. The Quality People Since 1955
CLIENT: Eloy Elemen	ntary School District
SITE ADDRESS: 1000 Arizona	North Curiel Street, Eloy,

Inspections Materials	The Q <u>uality</u> F Since 1955	'eople	ASBESTOS SURVEY SAMPLE LOG					
Wt-us.			DECLECT NO. 3	2211260				
CLIENT: Eloy Eleme	entary School Disi	trict	PROJECT NO: 21	PROJECT NO: 2188JH269 Page of				
SITE ADDRESS: 100	O North Curiel St	reet, Eloy,	SAMPLED SITE:	SAMPLED SITE: Eloy Elementary School -				
Arizona			Bldg.	Bldg 9				
HOMOGENEOUS M	ATERIAL:		LOCATION BY FU	UNCTIONAL SPA	CE (FS):			
CONCRETE SAMPLE NUMBER:			Exterior	r valls				
l	_		TOTAL QUANTIT	ΓY:				
9-M-1		1 45 4 11	SF: 13/20	LF:				
Sequential #	1- 12/10/0	2- 194 11	3- 15 12		NOTES			
Location/FS	Exteriorvale	5	>	DINK	4"x18"			
Sample Origin	NW NE SW SE	NW NE SW SE	NW ND SW SE	Blur	\ 4 X(6			
E/W Location	SHE	OFFE	DAW		1			
N/S Location	Ofth	0415	. OHS					
Height ^ Floor	54+	Sff	格料		47			
Component	Wall -		→ >					
Friable	Yes Wa	Yes 🐠	Yes 👀					
Condition	Good	Damaged	Good Damaged					
Containe	Sig. Dam.	Sig. Dam.	Sig. Dam.					
	None	None	None					
Accessibility	Rare O&M	Rare O&M	Rare					
	General	General	O&M General					
Activity Level	Т М Н	№ Н	О м н					
Disturbance Potential	L/N PD (SD)	L/N PD (SD)	L/N PD PSD					
% ASBESTOS	ND		5					
TYPE ASBESTOS								
		INSPECTOR(!	S) / ACCREDITATION	ON NO.				
☐ Vicky Aviles, The Asbest	tos Institute (TAI), G703				, Expiration April 6, 2019			
☐ Suzette Numkena, TAI, I		•	· ·		0, Expiration November 3, 2018			
☐ Jason Criss, TAI, ID No. (· · · · · · · · · · · · · · · · · · ·			, TAI, ID No. G8455, Ex				
 Matt Steinhoff, TAI ID N Ryan Fasci, TAI ID No. G 	No. G7675, Expiration Of G8292, Expiration March			age, Fiela Science, All [Al, ID No. G7791, Exp	171220001, Exp. December 20, 2018 5. November 8, 2018			
SIGNATURE:	all &	1960		DATE: 8/6/2				
II		s are entered upon	completion of laborat	tory analysis. The da	ite of analysis is available on the			
	ory report. asbestos detected.							

Geotechnical Environmental Inspections	Western Technologies Inc. The Quality People
Materials	Since 1955
wt-us.e	com
CLIENT: Eloy Elemen	ntary School District

Inspections Materials	The Quality P	People	ASBESTOS SURVEY SAMPLE LOG				
wt-us.							
CLIENT: Eloy Eleme	ntary School Dist	rict	PROJECT NO: 2188JH269 Page of				
SITE ADDRESS: 1000	D North Curiel Str	eet, Eloy,	SAMPLED SITE:	Eloy Elementary	School -		
Arizona			Bld	99			
HOMOGENEOUS M	ATERIAL:		LOCATION BY FU	INCTIONAL SPA	CE (FS):		
Moctar			Extendo	00-0			
SAMPLE NUMBER:			TOTAL QUANTIT	Υ:			
9-M-1	0B		SF: 1360 RV	ea LF:			
Sequential #	1- 16/13	2- 1714	3-18 5		NOTES		
Location/FS	Extentor nalls			C			
Sample Origin	NW NE	SW SE	NW (NE) SW SE	tor Co	pacrete Block		
E/W Location	OFFE	OHE	WHO				
N/S Location	OFTN	PAS	245		1		
Height ^ Floor	561	58	461				
Component	Wall-		5				
Friable	Yes 😡	Yes 😡	Yes (No				
Condition	Good Damaged	Good Damaged	Good Damaged				
	Sig. Dam.	Sig. Dam.	Sig. Dam.		0		
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General				
Activity Level	L)M H	LM H	()м н				
Disturbance Potential	L/N PD SD	L/N PD (PS)	L/N PECPSD				
% ASBESTOS	ND -	2-5	->				
TYPE ASBESTOS							
		INSPECTOR(S	S) / ACCREDITATIO	ON NO.			
☐ Vicky Aviles, The Asbesto ☐ Suzette Numkena, TAI, I ☐ Jason Criss, TAI, ID No. G ☐ Matt Steinhoff, TAI ID No. G	D No. G8456, Expiration 57027, Expiration May S lo. G7675, Expiration O	n April 6, 2019 6, 2018 ctober 6, 2018	D18 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Sean Moggridge, Field Science, AI171220001, Exp. December 20, 2018 ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018				
SIGNATURE:	Max Y	MA.		DATE: 8/6/2			
laborator		s are entered upon	completion of laborat	ory analysis. The dal	te of analysis is available on the		



Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113

Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

PROJECT NAME

www.wf-us.com

Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

(C)
\supset
7
ш
$\overline{}$
U
7
4
I
\overline{a}

MICROBIAL	☐ LEAD	
INDUSTRIAL HYGIENE	⊠ ASBESTOS	PROJECT MANAGER

	Utcky Aules	UNESS	Smale layer Analysis	COMMENTS	sculant (white)			seulant (black)	`	7	rolled asphalt)	Dak		>	morbar		÷				TIME RECEIVED BY SIGNATURE
PROJEC			Drnwe.	Н	36			25			7			a			٤						DATE
TEST METHOD			4	₹	7															>	•		
SAMPLE TYPE TES	F		341 84V	V2 IA																			RELINGUISHED BY — SIGNATURE
	ИЕВЗ	IATNO). OF C		<u>-</u>															<u>≯</u>			(
PROJECT ADDRESS	DOON CONST. ELS	RCHASE UNDER NO.	SAMPLEN - PLEASE PRINT NAME A. SMOLV	TIME SAMPLE LOCATION	Buildme 9				*** u														96/R S:32 4
		·	SA	DATE TI	States					_						_			_ >		-		
PROJECT NAME	CLASSED NESSIAP	21885 54 6 LOG	SAMPLER - PROMATURE	FICATION	9-M-94 1-10	2-2	3-3	9-M-9B 1-4	1 2.5	2-6	1-1 76-W-8	1 2-8	3-0	9-M-10A 1-10	11-2	7.6	F1-1 801-M-P	1 2-14	4 25	4-	421	J 3-18	RELINGUISHED BY — SIGNATURE

Review of Analysis Request (Initials) Zalo

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

PAGES

OF

PAGE

HOURS

REQUESTED TURNAROUND TIME

DAYS

352 - 1993 ©03/04/11 WTi. Inc



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807168

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

B5040-2966

Office Phone:

FAX:

8/8/2018

(602) 437-3737 (602) 470-1341

PLM Rec: 8/6/2018 N

Method: EPA 600/R-93/116

The "New" Method; see below

Samples: Client Job: 3 Report Date:

Client Job: 2188JH269 / 1000 N Curlel St, Eloy

St. Elav

Date Analyzed:

8/8/2018

PO Number: Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive Index oils (media of known refractive Index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interiab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

01	84	4	termin	Summary:	
r_{L}	इंग	MIND	IVSIS	SUITINIALLY:	

PLM Analy	sis Sum		Job Number:			201807168	2188JH269 / 1000 N Curiel St, Eloy	
	Sample	Number		Lab Numbe	r A	pparent S	Sample Type *	Positive Layer Yes or No
La	yer (Color	Apparent Layer Ty	pe *	Asbestos	Results		
Sample #	9-M-9A	1-1		2018-07168	3-1 A	dhesive/d	aulk	Positive Laver? No
La	yer#1	white	sealant		no asbesto:			
Sample #	9-M-9A	<u>2-2</u>		2018-07168	3-2 A	dhesive/d	caulk	Positive Layer? No
La	yer#1 (white	sealant		no asbestos	s detected		,,,,,,,, .
Sample #	9-M-9A	3-3		2018-07168	3-3 A	dhesive/d	aulk	Positive Layer? No
La	yer#1 i	white	sealant		no asbesto:	s detected		
Sample #	9-M-9B	1-4		2018-07168	3-4 A	dhesive/d	caulk	Positive Layer? Yes
		olack	sealant		5-10% chry	ysotile asb	estos	
Sample #	9-M-9B	2 <u>-5</u>		2018-07168	3-5 A	dhesive/d	aulk	Positive Laver? Yes
La	yer#1 I	olack	sealant		5-10% chry	ysotile asb	estos	, ,
Sample #	9-M-9B	3-6		2018-07168	3-6 A	dhesive/d	aulk	Positive Laver? Yes
La		olack	sealant		5-10% chr)			, , , , , , , , , , , , , , , , , , , ,
Sample #	9-M-9C	L-7		2018-07168		oofing		Positive Laver? No
		olack	roofing roll/shingle		no asbestos			, , , , , , , , , , , , , , , , , , , ,
Sample #	9-M-9C	2-8		2018-07168	3-8 R	oofing		Positive Laver? No
La	yer#1 t	olack	roofing roll/shingle		no asbestos	_		,,,
Sample #	9-M-9C	3-9	-	2018-07168	3-9 R	pofing		Positive Laver? No
La	yer#1 i	olack	roofing roll/shingle		no asbestos	_		, , , , , , , , , , , , , , , , , , , ,
Sample #	9-M-10/	41-10		2018-07168	3-10 C	ementitio	านร	Positive Laver? No
		/arlous	block		no asbestos			The state of the s
Sample #	9-M-10/	A2-11		2018-07168	- 11 C	ementitio	าบร	Positive Layer? No
		/arious	block		no asbestos	s detected		7 3 3 4 7 1 1 1 1 1
Sample #	9-M-10/	A3-12		2018-07168	3- 12 C	ementitio	us	Positive Laver? No
La	•	/arious	block		no asbestos			
Sample #	9-M-10	31-13		2018-07168	- 13 C	ementitio	us	Positive Layer? No
•		off-white	mortar		no asbestos			
Sample #	9-M-10	32-14		2018-07168		ementitio	HIS	Positive Layer? No
	. —	ff-white	mortar		no asbestos			t mentura ne meneg ner e 2010
Sample #	,			2018-07168		ementitio		Positive Layer? No
		off-white	mortar		no asbestos			

Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

5025 S. 33rd Street

Job Number:

201807168

2188JH269 / 1000 N Curiel St, Eloy

lomoge	ed By US 8/8,		An7	OK A	nnare	nt Smi	Type	Adhaci	ve/cau	lk .		Rubber		ion; acce	ptable
Non-Fil			Layers 1			_	yer? No		ve/cau	ik.		Kuppei	У		
	brous Component								binder						
Laye	ers									Percents	of Each	Fiber			53
#	Layer Type % Color		Friability		Fib 1	T	Fib 2		Fib 3	Fib 4		Fib 5	1	1b 6	
1	sealant 100		white	1	חר	n.d.		T		1 .		. 1			
	Total %	100		Overall o	*	n.d.			1		1	· 1		1	
			Elber Ir	dentification:	none		1		-						
			i laci la	jenanosuom.	Simila							afenethus T	Index Deter		_
Fibe	ers			Color	Mrph	Iso	Pleo	Bi	Elg	Ext	OII	Col Par	Col Per		
	non	8	100000										1		
-				-			-		-			-	-		-
							_	_				L			
-	olytical Note e: tweased apart us	ing forces	E Drocodes	n- directes	ion of -	nately .	cinc se	luech							_
	o, encusca apart us		J. FIOCEGUI	C. GISSUIGL	1011 01 1	HEU IA	22111Y 3U	TEIR.							
mple	9-M-9A2-2		Lat	Number	2018-0	07168-	2	Sampl	ed: 8/	6/2018			Conditi	on: acce	ntahl
moger	neous Yes		An? (Layers 1			Pos La	Type yer? No					Rubber	У		
lon-Fit Laye	brous Component	s (in app	rox. decre	asing ord	er): fil	ler, mi	ca/verm	iculite,							
			e-1	E-1 1 100		67h. A					of Each Fiber				
	Layer Type	%	Color	Friability		Fib 1		FIb 2		FIb 3		Fib 4	Fib 5	-	ib 6
	sealant	100	white	1		n.d.	-		-		-	-			-
	Total %	100		Overall 9	1/0	n.d.		•		5-7	-1	-	-		0
			Fiber Id	lentification:	none						_				
Fibe	HIR .							-	-1-				index Deter		_
T	none			Color	Mrph	Iso	Pieo	Bi	Elg	Ext	011	Col Par	Col Per	RI Par	RIF
				2											
								10			7				
										-		-			-
_													- 3		
				- 000											
ple Ana	nlytical Note														
nple Ana	nlytical Note 2: tweased apart us	ing forcep	s. Procedun	e: dissoluti	ion of n	natrix (ısing sol	lvent.							
ocedure	e: tweased apart us	ing forcep									-				
ocedure ample	e: tweased apart us		Lab	Number	2018-0	07168-	3	Sampl	ed: 8/		-			on: acce	ptabl
ocedure ample analyze	e: tweased apart us 9-M-9A3-3 ed By US 8/8/	/2018	Lab An? (Number	2018-0	07168- n t Sm j	3 Type	Sampl Adhesi				Rubber		on: acce	ptabl
ample Analyze	9-M-9A3-3 ed By US 8/8/ neous Yes	/2018	Lab An? (Number DK A	2018-0 pparer	07168- nt Sm; Pos La	3 Type	Sampl Adhesi	ve/caul	k	_	Rubber		on: acce	ptabl
nple And ocedure ample Analyze omoger Non-Fit	e: tweased apart us 9-M-9A3-3 ed By US 8/8/ neous Yes prous Component	/2018	Lab An? (Number DK A	2018-0 pparer	07168- nt Sm; Pos La	3 Type	Sampl Adhesi	ve/caul	k				on: acce	ptabl
ample Analyze omoger Non-Fit	e: tweased apart us 9-M-9A3-3 ed By US 8/8/ neous Yes prous Component	/2018 # :s (in app	Lab An? (Layers 1 rox, decrea	Number OK A asing orde	2018-0 Apparer Apparer Fer): fill	07168- nt Sm; Pos La ler, mi	3 Type yer? No ca/verm	Sampl Adhesi iculite,	ve/caul	k Percents		Fiber	Υ		
ample And ocedure ample Analyze omoger Non-Fit Laye	e: tweased apart us 9-M-9A3-3 ed By US 8/8/ neous Yes prous Component rs Layer Type	/2018 # s (in app	Lab An? (Layers 1 rox, decrea	Number OK A asing orde	2018-0 Apparer Apparer Fer): fill	07168- nt Smp Pos La ler, mi	3 Type yer? No ca/verm	Sampl Adhesi	ve/caul	k					ptabl
ampie Analyze Amoger Aon-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component trs Layer Type scalant	/2018 ## :s (in app	Lab An? (Layers 1 rox, decrea	Number OK A asing order Friability	2018-0 Apparer Fer): fill	07168- nt Sm; Pos La ler, mi	3 Type yer? No ca/verm	Sampl Adhesi iculite,	ve/caul	k Percents		Fiber	Υ		
ampie Inalyze Imager Ion-Fit Laye	e: tweased apart us 9-M-9A3-3 ed By US 8/8/ neous Yes prous Component rs Layer Type	/2018 # s (in app	Lab An? (Layers 1 rox, decrea	Number OK A asing orde	2018-0 Apparer Fer): fill	07168- nt Smp Pos La ler, mi	3 Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	ve/caul	k Percents		Fiber	Υ		
ampie Inalyze Imager Ion-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component trs Layer Type scalant	/2018 ## :s (in app	Lab An? (F Layers 1 rox. decrea Color white	Number OK A asing order Friability	2018-0 Apparer Fer): fill	07168- nt Sm; Pos La ler, mid Fib 1 n.d.	3 Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	ve/caul	k Percents Fib 3		Fiber	Y Fib S		
ampie Analyze Innoger Non-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component trs Layer Type sealant Total %	/2018 ## :s (in app	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	1b 6
ample Analyze Imager Hon-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component tayer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Number DK A asing order Friability 1 Overall 9	2018-Capparer ;	07168- nt Sm; Pos La ler, mid Fib 1 n.d.	3 Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	ve/caul	k Percents Fib 3		Fiber Fib 4	Fib S	T F	1b 6
mple And rocedure ample Analyze omoger Non-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component trs Layer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	1b 6
nple Ana rocedure ample Analyze omoger Non-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component tayer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	1b 6
mple Antipocedure ample Analyze pmoger Non-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component tayer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	1b 6
ample Analyze pmoger ton-Fit Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component tayer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	7b 6
ampie Analyze Analyze I Laye	9-M-9A3-3 ad By US 8/8/ neous Yes prous Component tayer Type sealant Total %	/2018 #s (in app % 100	Lab An? (F Layers 1 rox. decrea Color white	Principles Number OK A asing order Friability 1 Overall 9 Jentification:	2018-C	07168- nt Smp Pos La ler, min Fib 1 n.d.	3 : Type yer? No ca/verm	Sampl Adhesi iculite, Fib 2	binder	Percents		Fiber Fib 4	Y Fib S	F	1b 6

Job Number:

201807168

2188JH269 / 1000 N Curiel St, Eloy

Sample 9-M-9B1-4 Lab Number 2018-07168- 4 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 Apparent Smp Type Adhesive/caulk An? OK Sticky Homogeneous Yes # Lavers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 FIb 4 Fib S Fib 6 sealant 100 black 5-10% 100 Overall % Total % 5-10% chrysotile asbestos Fiber Identification: Refractive Index Determinations **Fibers** Color Mrph Iso Pleo Elg Ext Oil Col Par Cal Per RI Par RI Per chrysotile asbestos W N 1.550 1.561 1.553 2 3 4 5 -6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 9-M-9B2-5 Lab Number 2018-07168-5 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By US Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Color Friability Layer Type FIb 1 Flb 2 Fib 3 FIb 5 Fib 6 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: chrysotile asbestos Refractive Index Determinations **Fibers** Color Mrph Isa Pieo 81 Elg Ext Coi Par Coi Per RI Par RI Per chrysotile asbestos w 1.561 1.553 N N 1.550 db/ly sb/o 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 9-M-9B3-6 Lab Number 2018-07168- 6 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Laver Type Color Friability Fib 1 Fib 2 Fib 3 Fih 4 Flb 5 Fib 6 sealant 100 black 5-10% 100 Overall % 5-10% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Mrph Iso Piec Bi Elg Ext Oll Col Par Col Per RI Par RI Per chrysotile asbestos N 1.550 db/ly 1.561 1.553 sb/o 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807168

21883H269 / 1000 N Curiel St, Eloy

Total % 100 black 1 2.5%	•	9-M-9C1-7			Number			•	Sample		0/2018			Conditi	on: acce	ptable
Control Cont					JK A		•		-)			Fibrous	s Solid		
Layer Type	_				asino neda			-								
Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6			o (m app		asing ora		,, ,,	2111011, 1	UCK				-			- 500
roofing roofin	10			0-1	8 -1-4-100-		=10. 0			т -		-				
Fibers Fibers	#		-		_			-	FID 2	+	FID 3	-	-	FID 5		
Fibers Color Mryh Iso Pfeo Bi Elg Ext Oil Col Par Col Per R1 Par R1	1		[recent of the last of the las	DIBOK		-		-	-	+				-	1	
Pibers Color Mrgh Iso Pice Bi Eig Ext Oil Col Par Col Per R1 Par R2		10tal %	100						-	-	-	1	-			-
glass fiber				Fiber id	lentification:	igless	fiber		5.55			_				
glass fiber	Fil	bers			Color	Menh	Ten	Plea	BI I	Ela	Ewe					_
Implie 9-M-9C2-8 Lab Number 2018-07168-8 Sampled: 8/6/2018 Condition: acceptable malyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Fib	1	glass fi	ber		-			FIGO		Lip	EAL	- Oil	COLPAI	COIPE	RI Par	RI F
Implie 9-M-9C2-8 Lab Number 2018-07168-8 Sampled: 8/6/2018 Condition: acceptable malyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Fib						(. sec										
Implie 9-M-9C2-8 Lab Number 2018-07168-8 Sampled: 8/6/2018 Condition: acceptable malyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Fib	+		<u> </u>				-					-	-			
Implie 9-M-9C2-8 Lab Number 2018-07168-8 Sampled: 8/6/2018 Condition: acceptable malyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Fib	1								-			-	-			-
Implie 9-M-9C2-8 Lab Number 2018-07168-8 Sampled: 8/6/2018 Condition: acceptable malyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Fib	1													-		
Imple 9-M-9C2-8	iple A	nalytical Note														
No continue	ocedu	re: tweased apart us	ing forcep	s. Procedur	e: dissoluti	on of r	natrix u	ising so	lvent.							
No continue	male	D-M-0C2-9		1 -1-	Marechen	2010			Camal	nd. 0/	E/2019			Cdial		
Post Layer Pos			/20+0						•		0,2010				OII. BCCC	puab
Layer Superior Layer L		and the second s			JK A		•	• •		J			Fibrous	Solid		
Layer Type	_			•												
Layer Type			a (in abbi	rox. decre	asing orot	3FJ2 111	ier, bitt	ımen, r	UCK							
Total % 100 black 1 2.5% -						_				-						
Total % 100 Overall % 2-5% - - - - - -		100-00-00-00-00-00-00-00-00-00-00-00-00-							Fib 2	-	Fib 3		ib 4	FIb 5		ib 6
Fibers Color Mrph Iso Pleo BI Elg Ext Oil Col Per RI Per RI glass fiber CL D Y BI Elg Ext Oil Col Per RI Per RI glass fiber CL D Y BI Elg Ext Oil Col Per RI Per RI cedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Imple 9-M-9C3-9 Lab Number 2018-07168- 9 Sampled: 8/6/2018 Fibrous Solid Fibrous S			100	black		الـ	2-5%						-	-		*
Color Mrph Iso Pleo Bi Eig Ext Oil Col Par Col Par R Par R		Total %	100		Overall 9	6	2-5%	1	-		-		• 1		1	-
glass fiber Color Mrph Iso Pleo Bi Eig Ext Oil Col Par Col Par RI Par RI I glass fiber Cl. D Y				Fiber Id	entification:	glass	fiber									
glass fiber CL D Y	Ell	1					-					F				
ple Analytical Note scedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Imple 9-M-9C3-9	T						-	Pleo	BI	Elg	Ext	OII	Col Par	Col Per	RI Par	RI F
recedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Mark	-	glass ri	per		UL.	_ U	1			21 e						
redure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Imple 9-M-9C3-9																
recedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Imple 9-M-9C3-9	-			_						Cwars						1
redure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Imple 9-M-9C3-9	_						-		-				-	-	_	-
mple 9-M-9C3-9 Lab Number 2018-07168-9 Sampled: 8/6/2018 Condition: acceptable nalyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 1 2-5% Fiber Identification: glass fiber Fibers Color Mrph Iso Pieo Bi Eig Ext Oil Col Par Col Per RI Par RI glass fiber CL D Y Fibrous Fibrous Condition: acceptable Solid Col Par Col Per RI Par RI per R	1 4															
Postage Post						on of	matrix I	rina se	luent				-	200		
nalyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Solid mogeneous Yes # Layers 1 Pos Layer? No on-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 1 2-5%			ing forces	e Procedue	a• diecakuti											
mogeneous Yes # Layers 1 Pos Layer? No on-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 1 2-5%			ing forcep	s. Procedun	e: dissoluti			isiliy sc	IVEIIC.	-						
mogeneous Yes # Layers 1 Pos Layer? No on-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type % Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 roofing roll/shingle 100 black 1 2-5%	cedu	re: tweased apart us	ing forcep						-	ed: 8/	6/2018			Conditi	on: acce	ptabl
Layer Type	mple	re: tweased apart us		Lab	Number	2018-	07168-	9	Sample		6/2018		Fibrous		on: acce	ptabl
Layer Type	mple	re: tweased apart us 9-M-9C3-9 zed By US 8/8/	2018	Lab An? (Number	2018-0 ppare	07168- nt Smp	9 Type	Sampl Roofing		6/2018		Fibrous		on: acce	ptabl
Layer Type	mple naly:	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes	'2018 #	Lab An? (Layers 1	Number DK A	2018-0	07168- nt Smp Pos Lay	9 Type yer? No	Sample Roofing		6/2018		Fibrous		on: acce	ptabl
roofing roll/shingle 100 black 1 2-5%	mple naly: moge on-F	re: tweased apart us 9-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component	'2018 #	Lab An? (Layers 1	Number DK A	2018-0	07168- nt Smp Pos Lay	9 Type yer? No	Sample Roofing			of Each			on: acce	ptabl
Total % 100 Overalt % 2-5% Refractive Index Determinations Fibers Color Mrph Iso Piec Bi Eig Ext Oil Col Par Col Per RI Par RI I glass fiber CL D Y S S S S S S S S S S S S S S S S S S	mple naly; moge on-F	re: tweased apart us 9-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component	/2018 # s (in app	Lab An? (Layers 1 rox. decrea	Number OK A asing orde	2018-(ppare (er): fil	07168- nt Smp Pos Lay ller, bitu	9 Type yer? No	Sample Roofing ock		Percents	-	Fiber	s Solid		
Fibers Color Mrph Iso Pleo Bi Elg Ext Oil Col Par Col Per RI Par RI I glass fiber CL D Y	mple naly: moge on-F	p-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component yers Layer Type	/2018 # s (in app	Lab An? (Layers 1 rox. decrea	Number DK A asing order Friability	2018-(ppare (er): fil	07168- nt Smp Pos Lay ller, bitu	9 Type yer? No	Sample Roofing ock Fib 2		Percents Fib 3	-	Fiber	s Solid Fib 5		Fib 6
Fibers Color Mrph Iso Pleo Bi Eig Ext Oil Col Par Col Per RI Par RI I glass fiber CL D Y Pleo Bi Eig Ext Oil Col Par Col Per RI Par RI I glass fiber CL D Y Pleo Analytical Nota	mple naly: moge on-F	p-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component yers Layer Type roofing roll/shingle	72018 # s (in app	Lab An? (Layers 1 rox. decrea	Number OK A asing order Friability	2018-(07168- nt Smp Pos Lay ller, bitu Fib 1 2-5%	9 Type yer? No	Sample Roofing ock Fib 2		Percents Fib 3	-	Fiber	Solid Fib 5		ib 6
Fibers Color Mrph Iso Pleo Bi Eig Ext Oil Col Par Col Per RI Par RI I glass fiber CL D Y D A D D D D D D D D D D D D D D D D D	mple naly: moge on-F	p-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component yers Layer Type roofing roll/shingle	72018 # s (in app	Lab An? (Layers 1 rox. decrea Color black	Number OK A asing order Friability 1 Overall 9	2018-0	07168- nt Smp Pos Lay Iller, bitu Fib 1 2-5%	9 Type yer? No	Sample Roofing ock Fib 2		Percents Fib 3	-	Fiber	Solid Fib 5		ib 6
glass fiber CL D Y	mple naly: moge on-F	p-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component yers Layer Type roofing roll/shingle	72018 # s (in app	Lab An? (Layers 1 rox. decrea Color black	Number OK A asing order Friability 1 Overall 9	2018-0	07168- nt Smp Pos Lay Iller, bitu Fib 1 2-5%	9 Type yer? No	Sample Roofing ock Fib 2		Percents Fib 3		Fiber	s Solid Fib S	I I	ib 6
ple Analytical Nota	mple naly: moge on-F	re: tweased apart us a 9-M-9C3-9 zed By US 8/8/ eneous Yes ibrous Component vers Layer Type roofing roll/shingle Total %	72018 # s (in app	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall %	2018-(ppare) er): fil	07168- nt Smp Pos Lay Iller, bitu Fib 1 2-5% 2-5%	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	ib 6
	mple naly: moge on-F Lay	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component /ers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	ib 6
	mple naly: moge on-F Lay	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component /ers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	ib 6
	mple naly: moge on-F	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component /ers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	Fib 6
	mple naly: moge on-F Lay	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component /ers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	ib 6
	mple naly: moge on-F Lay	re: tweased apart us 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component /ers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	Fib 6
	mple naly: moge lon-F Lay	re: tweased apart us a 9-M-9C3-9 zed By U5 8/8/ eneous Yes ibrous Component rers Layer Type roofing roll/shingle Total %	/2018 # s (in app % 100	Lab An? (Layers 1 rox. decrea Color black	Number DK A asing orde Friability 1 Overall % entification:	2018-(ppare er): fil class Mrph	07168- nt Smp Pos Lay ller, bitu Fib 1 2-5% 2-5% (iber	9 I Type yer? No umen, r	Sample Roofing ock		Percents Fib 3		Fiber Fib 4	s Solid Fib 5	I I	ib 6

Job Number:

201807168

2188JH269 / 1000 N Curiel St, Eloy

Sample 9-M-10A1-10 Lab Number 2018-07168- 10 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type % Color Friability FIb 1 Fib 2 Fib 3 FIb 5 Fib 4 Fib 6 block 100 various n.d. 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pieo 81 Elg Ext OII Col Par Col Per RI Par RI Per поле 3 4 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 9-M-10A2-11 Lab Number 2018-07168-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Friability Layer Type Color Fib 1 Fib 2 Fib 3 Fib 4 FIb S Fib 6 100 block various n.d 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 9-M-10A3-12 Lab Number 2018-07168- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 block 100 various 1 n.d. Total % 100 Overall % n.d. Fiber Identification: **Refractive Index Determinations** Fibers Color Mrph Iso Pleo Elg Ext Bi Col Par | Col Per | RI Par | RI Per none 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Job Number:

201807168

2188JH269 / 1000 N Curiel St, Eloy

Sample 9-M-10B1-13 Lab Number 2018-07168-13 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By US An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Color Friability Fib 1 FIb 2 Fib 3 Flb 4 Fib 5 Fib 6 mortar 100 off-white 2 n.d. 100 Overall % Total % Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pieo BI Elg Ext Oil Col Par | Col Per | RI Par | RI Per none 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 9-M-10B2-14 Lab Number 2018-07168-14 Sampled: 8/6/2018 Condition: acceptable **Analyzed By US** 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Color Friability Layer Type Flb 1 FIb 2 FIb 3 Fib 4 FIb S Fib 6 100 off-white mortar 2 n.d 100 Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Oll | Col Par | Col Per | RI Par | RI Per Color Mrph Iso Pleo Elg Bi Ext none 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 9-M-10B3-15 Lab Number 2018-07168- 15 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Lavers Percents of Each Fiber # Layer Type Color Friability Fib 2 Fib 3 Fłb 4 fib 5 Fib 6 mortar 100 off-white 2 n.d. Total % 100 Overall % Fiber Identification: none Refractive Index Determinations Fibers Elg Color Mrph Iso Pleo Bi Ext Oil Col Par Col Per RI Par RI Per попе 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

FAX: 602-276-4558

Fr=Frlability: 1=very non-friable; 2= non-friable; 3=frlable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;DR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yelkow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers, CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Eig=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oli=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/iy=dark blue/temon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber: RI Perp=refractive index perpendicular to fiber.

RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Larry S. Pierof, Approved Accreditation Signatory



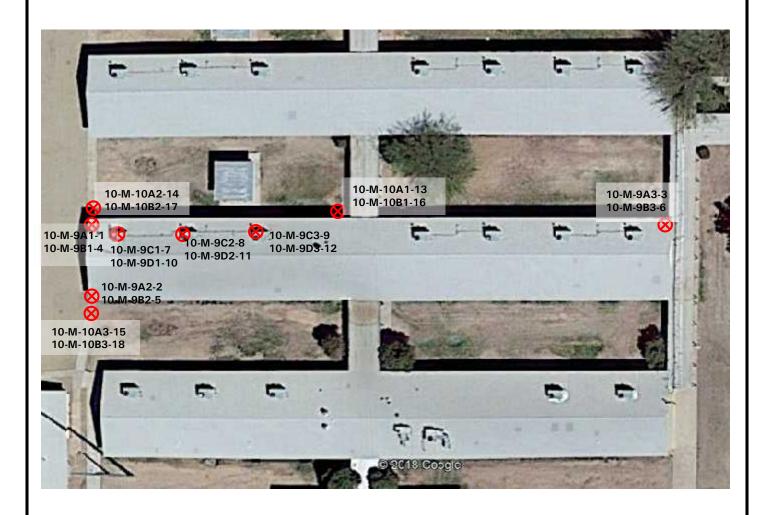
APPENDIX

щ

FIGURE 6A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 10 (RPA Building C)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

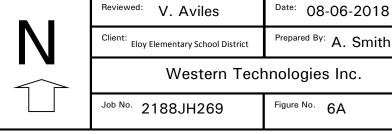


FIGURE 6B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 10 (RPA Building C)

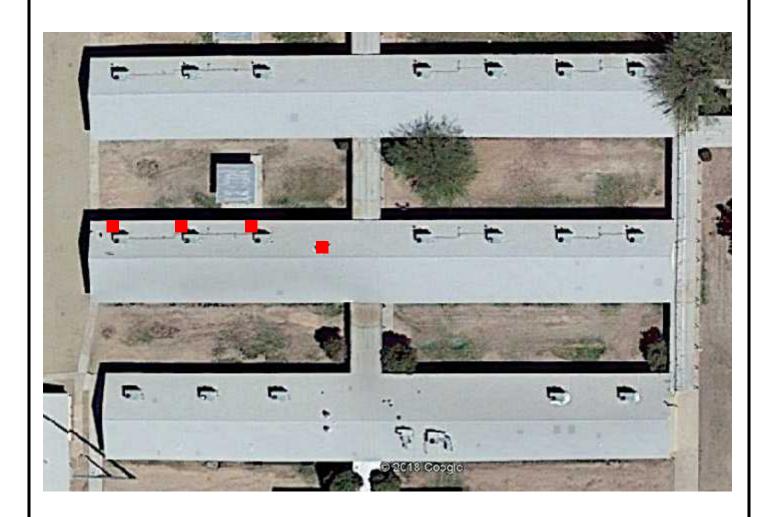


DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed: V. Aviles	Date: 08-06-2018		
Client: Eloy Elementary School District	Prepared By: A. Smith		
Western Tech	nnologies Inc.		
Job No. 2188.JH269	Figure No. 6B		

TABLE 6 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 10 (RPA Building C)	FRIABLE/ NON FRIABLE	PROJECT NO: 2188JH269			
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	АСВМ
10-M-9A1-1, 9A2-2 and 9A3-3	Asphalt Shingles	Roof	NF	Misc	10,140	NO
10-M-9B1-4, 9B2-5 and 9B3-6	Felt	Roof	NF	Misc	10,140	NO
10-M-9C1-7, 9C2-8 and 9C3-9	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
10-M-9D1-10, 9D2-11 and 9D3-12	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	YES
10-M-10A1-13, 10A2-14 and 10A3-15	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,240	NO

TABLE 6 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT:	SITE ID: Building 10	FRIABLE/	PROJECT NO) : 2188JH26	59	
NESHAP Asbestos Survey		(RPA Building C)	NON			
Curiel Primary School			FRIABLE			
1000 North Curiel Street						
Eloy, Arizona						
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
10-M-10B1-16, 10B2-17 and 10B3-18	Mortar (for concrete block)	Exterior Walls	NF	Misc	1,240	NO

		-82		2.8
Geotechnical Environmental Inspections Materials wt-us	The Quality I Since 1955	ogies Inc. People	A	SBESTOS SURVEY SAMPLE LOG
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2	Page of
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	: Eloy Elementary School -
Arizona			Blag 1	0 + Bldg 11
HOMOGENEOUS M			LOCATION BY F	FUNCTIONAL SPACE (FS):
ASDHALT SAMPLE NUMBER:	Shinales		hoof	
SAMPLE NUMBER:	9.00		TOTAL QUANT	ITY:
10-M-9	A		SF: 10140	LF:
Sequential #	1-	2-2	3-3	NOTES
Location/FS	h00f10	Racto	Roof-11	
Sample Origin	NM NE	NW NE	NW (NE)	
Sumple Origin	SW SE	⟨SW SE	SW SE	Sounder Co
E/W Location	OHE	CHE	Offu	samples for
N/S Location	045	OffN	0f42	Samples for 100f of Blog 10 +
Height ^ Floor	oft -		->	
Component	floor -		7	Bldg 11
Friable	Yes No	Yes No	Yes No	-
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	
	eene .	None	Anne	
Accessibility	Rare O&M General	Rare O&M General	Rare O&M General	
Activity Level	(I) M H	Фм н	(L)M H	,
Disturbance Potential	L/N PD (PSD)	L/N PD (SD)	L/N PD (PSD)	
% ASBESTOS	NO-		7	
TYPE ASBESTOS				
		INSPECTOR(S) / ACCREDITATI	ION NO.
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. (☐ Matt Steinhoff, TAI ID N	ID No. G8456, Expiratio G7027, Expiration May ! Io. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmo ☐ Ryan Cleary ☐ Sean Moggr	tude, TAI, ID No. G8459, Expiration April 6, 2019 quist, TAI, ID No. G7810, Expiration November 3, 2018 y, TAI, ID No. G8455, Expiration April 6, 2019 ridge, Field Science, Al171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018
SIGNATURE:	Celly	Sh		DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

081WTI 111014

Remarks:

laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	The Quality F Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Eleme		trict	PROJECT NO: 2	188JH269	0 0	
					Page 2 of 6.	
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -	
Arizona			Blog	10 + Bldg	11	
HOMOGENEOUS M	A			UNCTIONAL SPA	ACE (FS):	
Asotra	# 8hs F	Felt		Pot.		
SAMPLE NUMBER:		. •	TOTAL QUANT	ITY:		
10-M-0	18		SF: 040	LF:		
Sequential #	1-4	2- 5	3- 6		NOTES	
Location/FS	heaf -		7			
Sample Origin	NW NE SW SE	NW NE	NW (NE) SW SE			
E/W Location	EFIE	EATE	OFF W			
N/S Location	8HS	effn	015			
Height ^ Floor	oft-		ラ			
Component	floor -		>->	8		
Friable	Yes No	Yes No	Yes No			
Condition	Good Damaged	Good	Good Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General			
Activity Level	(J) М Н	Ф м н	© м н			
Disturbance Potential	L/N PD RSD	L/N PD (PSD)	L/N PD (SD)			
% ASBESTOS	ND-		ラ			
TYPE ASBESTOS						
		INCRECTOR/				

INSPECTOR(S) / ACCREDITATION NO.

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
Ryan Fasci, TALID No. G8292, Expiration March 7, 2019	Alex Smith TAL ID No. G7791 Evo. November 9, 2019

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955 s.com	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Elem	nentary School Dis	trict	PROJECT NO: 2	188JH269	2 (
				Page	<u>3</u> of <u>6</u> .	
SITE ADDRESS: 10	00 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementary School	ol -	
Arizona			Bld	g (O		
HOMOGENEOUS	MATERIAL:			FUNCTIONAL SPACE (FS):	
Slala	int	,	h	80ct		
SAMPLE NUMBER	l:		TOTAL QUANT	ITY:		
10-M-	90		SF: 15	LF:		
Sequential #	1-7	2- 🖇	3-9	NO	OTES	
Location/FS	Reaf-		>	1212/0		
Sample Origin	ANV) NE	NW NE	NW (NB	WWHe, penetration		
· ·	SW SE	SW SE	SW SE	2007 Penetrat	HON	
E/W Location	IOHE	AGTE	18(+W			
N/S Location	645	Cd+S	GHN			
Height ^ Floor	Of 4 -			On HUAC		
Component	£100r-		->	On Horse		
Friable	Yes No	Yes (No	Yes 😡			
	6000	600d	Good			
Condition	Damaged	Damaged	Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.	,		
Accordibility	None Rare	None Rare	None Rare			
Accessibility	O&M	O&M	O&M General			
Activity Level	General M H	General M H	General H			
Disturbance Potential	L/N PD SD	L/N PD (SS)	L/N PD (SD)			
% ASBESTOS	NO-		S			
TYPE ASBESTOS						
		INSPECTOR(S) / ACCREDITAT	ION NO.		
☐ Vicky Aviles, The Asbe☐ Suzette Numkena, TA☐ Jason Criss, TAI, ID No	I, ID No. G8456, Expiratio	n April 6, 2019	☐ John Holm	tude, TAI, ID No. G8459, Expiratio quist, TAI, ID No. G7810, Expirat y, TAI, ID No. G8455, Expiration	ion November 3, 2018	

SIGNATURE:

DATE: 8/6/2018

Remarks:

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

SC Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019

Geotechnical Environmental Inspections Materials	The Q <u>uality</u> I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Eleme		trict	PROJECT NO: 2	2188JH269		
				Page 4 of 6.		
SITE ADDRESS: 100 Arizona	O North Curiel St	reet, Eloy,	SAMPLED SITE	Eloy Elementary School -		
Arizona			Bla	da 10		
HOMOGENEOUS N	ATERIAL:		LOCATION BY	PUNCTIONAL SPACE (FS):		
Slalar	νŦ		Roof	•		
SAMPLE NUMBER:		.,	TOTAL QUANT			
10- M	1-90		SF: O	LF:		
Sequential #	1-10	2-	3-12	NOTES		
Location/FS	20ct-					
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE SW SE	Black,		
E/W Location	SHE	2CHTE		Hoof penulration		
N/S Location	445	4045	v	Moot benealed a		
Height ^ Floor	Oft-		->			
Component	floor -		- - >			
Friable	Yes No	Yes (No)	Yes 🐿			
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General			
Activity Level	О м н	Фм н	Фм н			
Disturbance Potential	L/N PD (PSD)	L/N PD (SD)	L/N PD-PSD			
% ASBESTOS	5-18-6		Ð			
TYPE ASBESTOS	Chrisolile-		-			

INSPECTOR(S) / ACCREDITATION NO.

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
Matt Steinhoff, TALID No. G7675, Expiration October 6, 2018	Sean Mogeridge Field Science Al171220001 Eyn December 20, 2018

 \square Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019

SIGNATURE: DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Elem		trict	PROJECT NO: 2	2188JH269	Page 5_ of 6	
SITE ADDRESS: 100 Arizona	JO North Curiei St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -	
HOMOGENEOUS N	/IATERIAL:	. And June 2		FUNCTIONAL SPA	ACE (FS):	
Concrete			Exterior	Walls		
SAMPLE NUMBER			TOTAL QUANT	TTY:	***	
10-M-10	DA		sf: 1240	LF:		
Sequential #	1- 13	2- 14	3-15		NOTES	
Location/FS	Exterior walls-			Plank	1111.101	
Sample Origin	NW (NE) SW SE	SW SE	NW NE	DIECK	4"118"	
E/W Location	0 ft12	OHE	OFF			
N/S Location	SHS	045	WHO			
Height ^ Floor	464	Coft	5€1			
Component	wall		->			
Friable	Yes No	Yes No	Yes No			
Condition	Good Damaged Sig. Dam.	Damaged Sig. Dam.	Good Damaged Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General			
Activity Level	Фм н	Д м н	(L) M H			
Disturbance Potential	L/N PD RSD	L/N PD PSD	L/N PD (PSD)			
% ASBESTOS	ND-		-			
TYPE ASBESTOS						

INSPECTOR(S) / ACCREDITATION NO.

10/10/	
Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019	☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018
☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Western Technologies Inc

Inspections Materials wt-us	The Q <u>uality</u> I Since 1955	People	ASBESTOS SURVEY SAMPLE LOG					
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 21	PROJECT NO: 2188JH269 Page 6 of 6.				
SITE ADDRESS: 100	00 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -					
Arizona			Bldg11	Blato				
HOMOGENEOUS N	MATERIAL:		LOCATION BY FUNCTIONAL SPACE (FS):					
Morta	<u>ر</u>		Exterior lu	alls				
SAMPLE NUMBER:			TOTAL QUANTIT	TY:				
10-M-1	OB		SF: 1240 Are	ቪ LF:				
Sequential #	1- 10	2- 17	3-18		NOTES			
Location/FS	Exterpo wells		>	\wedge	o			
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE SW SE	for 1	Oncresc OCK			
E/W Location	OFFW	OHE	OHE	Bla	xk			
N/S Location	OF+5	045	OCTN		`			
Height ^ Floor	426	(of)	5(1)					
Component	walls-		->					
Friable	Yes No	Yes	Yes 🐿					
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.					
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General					
Activity Level	4 M H	(L)M H	<u>Г</u> м н					
Disturbance Potential	L/N PD (SD)	L/N PD (RSD)	L/N PD PSD					
% ASBESTOS	ND-		3					
TYPE ASBESTOS								
		INSPECTOR(S	S) / ACCREDITATION	ON NO.				
Usicky Aviles, The Asbest	ID No. G8456, Expiratio G7027, Expiration May ! No. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	O18					
SIGNATURE:	Illy Sy	KA		DATE: 8/6/	2018			
Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.								

Western	Technologies	Inc.	The Quality People	Since 1955

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040 Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

Albuquerque • (505) 823-4488 • f 821-2963 • 8305 Washington Place, N.E. • NM 87113

Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

www.wf-us.com

>
\overline{a}
\succeq
7
3
$\boldsymbol{\pi}$
O
Ш
<u></u>
_
Z
7
7
六
O

☐ MICROBIA	☐ LEAD	
I INDUSTRIAL HYGIENE	X ASBESTOS	PROJECT MANAGER

"	FINAL ADDRESS		(Single layer dialysis	COMMENTS	csehult shirdes			501		→	scalant (white)	\	>	sealant (dauk)		→
	¥	98 A \	'BIN	ירחוי	۸٥												
ТНОБ				4)	₹	メ											
TEST METHOD							٠										
TE					_												
SAMPLE TYPE				AAB ATEI JIC	IA W												
S/S				IbE	Μ												
5	INERS	\TN0	D 4	11K 10' O		<i>×</i>											
PROJECT ADDRESS	109 NESHOP DOON COULD ST. FLOY	00	SAMPLER - PLEASE PRINT NAME	H. Smith	TIME SAMPLE LOCATION	Building 10	7 -					•					
<u>.</u>	<u>\$</u>		ŝ		DATE	1/10/10											
形	WI JOB NO. WIEG	P057478812	SAMPLER - SIGNATURE	COUR AREA	SAMPLE IDENTIFICATION DA	80 1-1 46-10 OF	1 2-2	4 33	12-14-912 1-4	1 25	V 3-6	12-1 26-11-0	1 28	Jr 3-9	01-1 0P-M-01	1 2-11	7.8

HOURS REQUESTED TURNAROUND TIME DAYS White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample DATE NATURE

352 - 1993 Review of Analysis Request (Initials)

PAGES PAGE

RECEIVED BY - SIGNATURE

I WE

- SIGNATURE

RELINQUISHED BY

٥

١ Ź

9

4-12

RELINGUISHED BY

41-2



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807169

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone: FAX:

(602) 437-3737 (602) 470-1341

Samples:

18 PI

PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 2188JH269 / 1000 N Curiel St, Eloy

PO Number:

Report Date:

8/8/2018

Date Analyzed:

8/8/2018

Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive Index oils (media of known refractive Index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Number:

Job Analysis Notes:

Sample #

Sample #

Sample #

10-M-10A3-15

10-M-10B1-16

10-M-10B2-17

10-M-1083-18

Layer # 1

Layer # 1

Layer # 1

gray

off-white

off-white

mortar

mortar

mortar

PLM Analysis Summary:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

201807169

21883H269 / 1000 N Curiel St, Eloy

Sampl	e Number	Lab Number	Apparent Sample Type *	Positive Layer Yes or No
Layer	Color Apparent Layer	Type * Asb	estos Results	
Sample # <u>10-M-</u>	9A1-1	2018-07169- 1	Roofing	Positive Layer? No
Layer # 1	white roofing roll/shin	gle no as	bestos detected	
Sample # <u>10-M-</u>	PA2-2	2018-07169- 2	Roofing	Positive Layer? No
Layer # 1	white roofing roll/shine	gle no as	bestos detected	
Sample # <u>10-M-</u> !	<u>9A3-3</u>	2018-07169-3	Roofing	Positive Layer? No
Layer # 1	white roofing roll/shing	gle no as	bestos detected	
Sample # <u>10-M-</u>	9 <u>B1-4</u>	2018-07169- 4	Roofing	Positive Layer? No
Layer # 1	black roof ply	no as	bestos detected	
Sample # <u>10-M-</u> 9	9 <u>82-5</u>	2018-07169- 5	Roofing	Positive Layer? No
Layer # 1	black roof ply	no as	bestos detected	
Sample # <u>10-M-</u> !	9B3-6	2018-07169- 6	Roofing	Positive Layer? No
Layer # 1	black roof ply	no as	bestos detected	
Sample # <u>10-M-</u>	<u>IC1-7</u>	2018-07169- 7	Adhesive/caulk	Positive Layer? No
Layer # 1	white sealant	no as	bestos detected	
Sample # <u>10-M-!</u>	PC2-8	2018-07169- 8	Adhesive/caulk	Positive Layer? No
Layer # 1	white sealant	no as	bestos detected	
Sample # <u>10-M-</u>)C3-9	2018-07169- 9	Adhesive/caulk	Positive Layer? No
Layer # 1	white sealant	no as	bestos detected	•
Sample # <u>10-M-</u>	D1-10	2018-07169- 10	Adhesive/caulk	Positive Laver? Yes
Layer # 1	black sealant	5-109	6 chrysotile asbestos	• • • • • •
Sample # 10-M-	D2-11	2018-07169- 11	Adhesive/caulk	Positive Layer? Yes
Layer # 1	black sealant	5-109	6 chrysotile asbestos	•
Sample # <u>10-M-</u>	D3-12	2018-07169- 12	Adhesive/caulk	Positive Layer? Yes
Layer # 1	black sealant	5-109	6 chrysotile asbestos	·
Sample # <u>10-M-</u> 1	LOA1-13	2018-07169- 13	Cementitious	Positive Layer? No
Layer # 1	various block	no as	bestos detected	• • • • • •
Sample # 10-M-1	LOA2-14	2018-07169- 14	Cementitious	Positive Layer? No
Layer # 1	gray block	no as	bestos detected	

Cementitious

Cementitious

Cementitious

Cementitious

no asbestos detected

no asbestos detected

no asbestos detected

no asbestos detected

2018-07169- 15

2018-07169- 16

2018-07169- 17

2018-07169- 18

5025 S. 33rd Street

Positive Layer? No

Positive Layer? No

Positive Layer? No

Positive Layer? No

Page 2 of 9

Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

2188JH269 / 1000 N Curiel St, Eloy

Sample 10-M-9A1-1 Lab Number 2018-07169- 1 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Flb 1 94 Friability Fib 2 Fib 3 Fib 4 FIb 5 FIb 6 roofing roll/shingle 100 white 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations **Fibers** Color Mrph Iso Plea Elg Ext Col Par | Col Per | RI Par | RI Per glass fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent, Sample 10-M-9A2-2 Lab Number 2018-07169- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Fib 1 FIb 2 Fib 3 Flb 4 Fib 5 Fib 6 roofing roll/shingle 100 white 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per glass fiber CL D 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9A3-3 Lab Number 2018-07169-3 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 FIb 4 Fib S Fib 6 roofing roll/shingle 100 white 1 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Calor Mrph Iso Pleo Bi Elg Ext Oil Col Par Col Per RI Par RI Per glass fiber CL D 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample 10-M-9B1-4 Lab Number 2018-07169-4 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Color Friability Layer Type Fib 1 Flb 2 Flb 3 Fib 4 FIb S Fib 6 100 60-70% roof ply black 1 Total % 100 Overall % 60-70% Fiber Identification: cellulose fiber **Refractive Index Determinations** Fibers Col Par | Col Per | RI Par | RI Per Color Mrph Iso Pleo BI Elg Ext cellulose fiber W N U 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9B2-5 Lab Number 2018-07169-5 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Mat Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber # Layer Type Color Friability Flb 1 Flb 2 FIb 5 Fib 6 roof ply 100 black 60-70% Total % 100 Overall % 60-70% Fiber (dentification: cellulose fiber Refractive Index Determinations Fibers Col Par | Col Per | RI Par | RI Per Color Mrph Iso Pieo 81 Ela Ext 1 cellulose fiber W F N N Н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9B3-6 Lab Number 2018-07169-6 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Flb 3 Fib 4 Fib 5 Fib 6 roof ply 100 black 60-70% 1 Total % 100 60-70% Overall % Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo BI Elg Ext Col Par | Col Per | RI Par | RI Per cellulose fiber W N M Н U 2 3 4 S Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807169

2188JH269 / 1000 N Curiel St, Eloy

Sample 10-M-9C1-7 Lab Number 2018-07169-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 Apparent Smp Type Adhesive/caulk An? OK Rubbery Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, mica/vermiculite, binder Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Flb 3 Fib 4 Fib 5 Fib 6 sealant 100 white 1 n.d 100 Total % Overall % n.d. Fiber Identification: Refractive Index Determinations **Fibers** Color Pleo BI Ext Coi Par Col Per RI Par RI Per Mrph Iso Elg none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9C2-8 Lab Number 2018-07169-8 Condition: acceptable Sampled: 8/6/2018 Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Rubbery Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, mica/vermiculite, binder Layers Percents of Each Fiber Color Fib 4 # Layer Type Friability Fib 1 Fib 2 Fib 3 FIb 5 Fib 6 sealant n.d 100 Overall % Total % n.d Fiber Identification; попе Refractive Index Determinations Fibers Color Pieo BI Ext Mrph Elg Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9C3-9 Lab Number 2018-07169-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 Apparent Smp Type Adhesive/caulk An? OK Rubberv Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, mica/vermiculite, binder Layers Percents of Each Fiber # Laver Type Color Friability Flb 1 Fłb 2 Fłb 3 Fib 4 Fib 5 Fib 6 sealant 100 white n.d 100 Overal! % n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

201807169

2188JH269 / 1000 N Curiel St, Eloy

Sample 10-M-9D1-10 Lab Number 2018-07169-10 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Pos Layer? Yes Homogeneous Yes # Layers 1 Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Layer Type Color Friability Flb 1 FIb 2 FIb 3 FIb 4 FIb 5 Fib 6 100 sealant black 5-10% 100 5-10% Total % Overall % Fiber Identification: chrysotile asbestos Refractive Index Determinations **Fibers** Color Mrph Pleo BI Oll Col Par Col Per RI Par RI Per Iso Elg Ext chrysotile asbestos N N P 1.550 1.561 1.553 db/ly 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9D2-11 Lab Number 2018-07169-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Laver? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Percents of Each Fiber Layer Type Color Friability FIb 1 Fib 2 FIb 3 Fib 4 FIb 5 Fib 6 sealant 100 5-10% 100 Overall % Total % 5-10% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Iso Pleo ВI Elg Ext Oil Col Par Col Per RI Par RI Per chrysotile asbestos W N N P 1.550 db/ly sb/o 1.561 1.553 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 10-M-9D3-12 Lab Number 2018-07169- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber # Laver Type % Color Friability Fib 1 Fib 2 FIb 3 Fib 4 FIb 5 Fib 6 sealant 100 black 5-10% 100 Overall % 5-10% Fiber Identification: chrysotile asbestos **Refractive Index Determinations** Fibers Elg Color Mrph Iso Pleo Bi Ext Oii Col Par Col Per RI Par RI Per chrysotile asbestos 1.550 N 1.561 1.553 db/ly sb/o 3 4 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

PLM Analysis Details Job Number: 201807169 2188JH269 / 1000 N Curiel St, Eloy Sample 10-M-10A1-13 Lab Number 2018-07169- 13 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes Pos Layer? No # Layers 1 Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Color Friability Layer Type FIb 1 Fib 2 FIb 3 Fib 4 FIb 5 FIb 6 100 block various 1 n.d. Total % 100 Overall % Fiber Identification: Refractive Index Determinations Fibers Color Mrph Ext Iso Pleo Bi Elg Col Par Col Per RI Par RI Per none 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCI acid. Sample 10-M-10A2-14 Lab Number 2018-07169- 14 Sampled: 8/6/2018 Condition: acceptable An? OK Analyzed By US 8/8/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Flb 5 Fib 6 block 100 n.d gray Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations **Fibers** Mrph Iso Pieo BI Elg Ext Oil Calor Col Par Coi Per RI Par RI Per none 3 4

Sample Analytical Note

5

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture/block filler.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Job Number:

201807169

2188JH269 / 1000 N Curiel St, Eloy

Sample 10-M-10A3-15 Lab Number 2018-07169-15 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Color Friability Flb 3 FIb 5 FIb 6 block 100 oray n.d 100 Total % Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Color Pleo Col Par | Col Per | RI Par | RI Per Mrph Iso Bi Ela Ext none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture/block filler. Sample 10-M-10B1-16 Lab Number 2018-07169- 16 Sampled: 8/6/2018 Condition: acceptable **Analyzed By** US An? OK 8/8/2018 Apparent Smp Type Cementitious Non-fibrous Solld Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Calar Friability Fib 1 Flb 2 FIb 3 FIb 4 Fib 5 Fib 6 mortar 100 off-white n.d. Total % 100 Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Col Par Col Per RI Par RI Per Color Mrph Iso Pleo BI Elg Ext OIL none 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample 10-M-1082-17 Lab Number 2018-07169- 17 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Lavers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Color Friability Flb 1 Fib 2 Fib S Fib 6 off-white mortar 100 2 n.d. Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Mrph Iso Pleo Col Par | Col Per | RI Par | RI Per Color Bi Elg Ext OH none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Job Number:

201807169

2188JH269 / 1000 N Curiel St, Eloy

Sample 10-M-10B3-18

Lab Number 2018-07169- 18

Sampled: 8/6/2018

Condition: acceptable

Analyzed By US

8/8/2018

An? OK

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1 Non-Fibrous Components (in approx. decreasing order): filler, rock, binder

Pos Layer? No

Layers			1	Percents of Each Fiber								
#	Layer Type	%	Color	Friability [Fib 1	Fib 2	Fib 3	FIb 4	Fib 5	Fib 6		
1	mortar	100	off-white	2	n.d.	-	-	-		-		
	Total %	100		Overall %	n.d.		-	-	-			

	h								F	efractive I	ndex Dete	rminatio	ns
Fi	bers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Qil	Col Par	Col Per	RI Par	RI Per
1	none											1	
2					1							1	
3					1								
4					1					1			
5					1								
6					0.000								

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

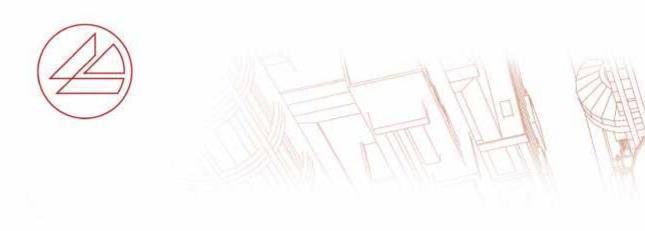
Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;DR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, strated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper Escalsotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bl=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Cof Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Cof Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Live Steinle
Analyst: UWE .. STEIMLE

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Approved Accreditation Signatory

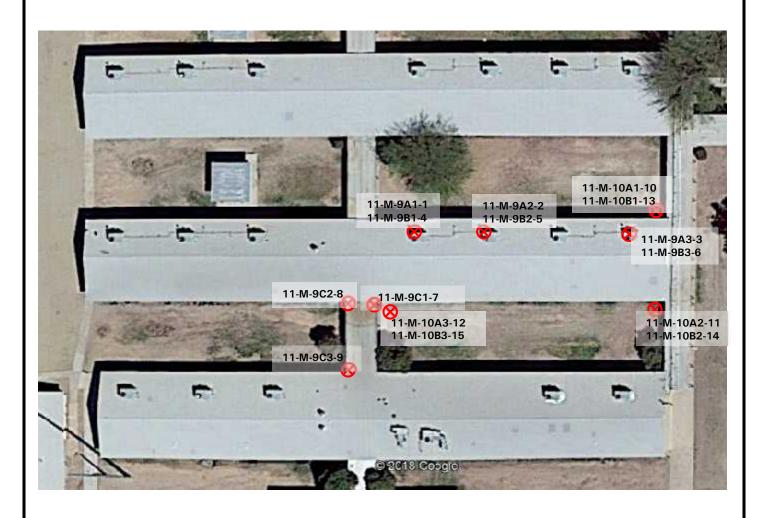


APPENDIX G

FIGURE 7A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 11 (RPA Building C)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

	Reviewed: V. Aviles	Date: 08-06-2018			
N	Client: Eloy Elementary School District	Prepared By: A. Smith			
	Western Tech	nnologies Inc.			
	Job No. 2188JH269	Figure No. 7			

FIGURE 7B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

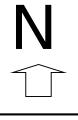
BUILDING 11 (RPA Building C)



DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed:	V. Aviles	

Date: 08-06-2018

Client: Eloy Elementary School District

Prepared By: A. Smith

Western Technologies Inc.

Job No. 2188JH269

Figure No. 7B

TABLE 7 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 11 (RPA Building C)	FRIABLE/ NON FRIABLE	PROJECT NO	D: 2188JH26	59	
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
11-M-9A1-1, 9A2-2 and 9A3-3	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
11-M-9B1-4, 9B2-5 and 9B3-6	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	YES
11-M-9C1-7, 9C2-8 and 9C3-9	Rolled Saphalt	Breezway	NF	Misc	420	NO
11-M-10A1-10, 10A2-11 and 10A3-12	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,360	NO
11-M-10B1-13, 10B2-14 and 10B3-15	Mortar (for concrete block)	Exterior Walls	NF	Misc	1360 area	NO

Geotechnical	Western						
Environmental Inspections Materials wt-us	The Quality I Since 1955	ogies Inc. People	AS	SBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Eleme		trict	PROJECT NO: 2188JH269 Page of				
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -				
Arizona			Bldg 11				
HOMOGENEOUS M	IATERIAL:		LOCATION BY F	UNCTIONAL SPACE (FS):			
Sealar	H		Roof				
SAMPLE NUMBER:	_		TOTAL QUANTI	TY:			
11-M-C	<u>₹A′</u>		SF: 5	LF:			
Sequential #	1- \	2-2	3-3	NOTES			
Location/FS	hoof -		> >	4 N . La			
Sample Origin	(NV) NE	(NA) NE	NW NE	Not penetration			
	SW SE	SW SE	SW SE	Rod penetration			
E/W Location	12ttE	28HE	2010				
N/S Location	COLTN	Cath	CoffN	Α.			
Height ^ Floor	oft -		>	on HVAC			
Component	floor—						
Friable	Yes No	Yes No	Yes No				
Condition	Good Damaged	Good Damaged	Cood Damaged				
Condition	Sig. Dam.	Sig. Dam.	Sig. Dam.				
	Mone	Nane	None				
Accessibility	Rare O&M	Rare O&M	Rare O&M				
	General	General	General				
Activity Level	Фин	Омн	Фин				
Disturbance Potential	L/N PD SD	L/N PD 🚳	L/N PD (SD)				
% ASBESTOS	ND-						
TYPE ASBESTOS							
		INSPECTOR(S) / ACCREDITATION	ON NO.			
☐ Vicky Aviles, The Asbest				ide, TAI, ID No. G8459, Expiration April 6, 2019			
Suzette Numkena, TAI, IJason Criss, TAI, ID No. (1	uist, TAI, ID No. G7810, Expiration November 3, 2018 TAI, ID No. G8455, Expiration April 6, 2019			
☐ Matt Steinhoff, TAI ID N	lo. G7675, Expiration O	ctober 6, 2018		dge, Field Science, Al171220001, Exp. December 20, 2018			
Ryan Fasci, TAI ID No. G	8292, Expiration March	n 7, 2019	Alex Smith, T	Al, ID No. G7791, Exp. November 8, 2018			
SIGNATURE:	Cllex	AM	,	DATE: 8/6/2018			
II .		os are entered upon	completion of laborat	tory analysis. The date of analysis is available on the			
laboratory report. ND = No asbestos detected.							

	- b)			50:
Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955 wt-us.com		A:	SBESTOS SURVEY SAMPLE LOG	
CLIENT: Eloy Eleme	ntary School Dis	trict	PROJECT NO: 2	Page 2 of 5.
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -
Arizona			Bld	PAGE 1 SERIES
HOMOGENEOUS M	IATERIAL:			FUNCTIONAL SPACE (FS):
Se	alart		LOOF	
SAMPLE NUMBER:			TOTAL QUANTI	ITY:
11 - M-	943		SF: \ ○	LF:
Sequential #	1-4	2-5	3-6	NOTES
Location/FS	hoof		>	Rla-k
Sample Origin	MW NE	NW NE	NW (NE)	Black, Roof penetration
	SW SE	SW SE	SW SE	2004 Denetration
E/W Location	12HE	SOHE	129W	
N/S Location	4C+N	4HN	UFFN	
Height ^ Floor	eft-		-	
Component	floor-		9	
Friable	Yes No.	Yes 😡	Yes No	
Condition	Good Damaged Sig, Dam.	Good Damaged	Good Damaged	
77		Sig. Dam.	Sig. Dam.	
	None Rare	None Rare	None Rare	
Accessibility	O&M	O&M	O&M	
	General	General	General	
Activity Level	Омн	©M H	EDM H	
Disturbance Potential	L/N PD PSD	L/N PD (PSD)	L/N PD (SD)	
% ASBESTOS	2-5%-		7	
TYPE ASBESTOS	Chrysople-	-	- 5	
		INSPECTOR(S	S) / ACCREDITATI	ION NO.
☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 201 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019		☐ John Holmq☐ Ryan Cleary☐ Sean Moggr	rude, TAI, ID No. G8459, Expiration April 6, 2019 quist, TAI, ID No. G7810, Expiration November 3, 2018 y, TAI, ID No. G8455, Expiration April 6, 2019 ridge, Field Science, Al171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018	
SIGNATURE: Cllw Min		-	DATE: 8/6/2018	
Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.				

Geotechnical Western Environmental Technologies Inc. Inspections ASBESTOS SURVEY SAMPLE LOG The Quality People Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** Page 3 of 5. SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -**HOMOGENEOUS MATERIAL:** Brezwar SE: 420 11-M-90 LF: **NOTES** Sequential # Location/FS NW (VE) (MW) NE Sample Origin SW SW E/W Location N/S Location Height ^ Floor Component Friable Yes (No. Yes (Vo Yes No 6000 (Copp) Good Damaged Damaged Damaged Condition Sig. Dam. Sig. Dam. Sig. Dam. None Mone None Rare Rare Rare Accessibility **0&M 0&M 0&M** General General General **Activity Level Ж** н L)M H (L) M H Disturbance L/N PD (PSD L/N PD (PSD L/N PD **PSD Potential % ASBESTOS TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 🔪 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 SIGNATURE: **DATE:** 8/6/2018 Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.

Geotechnical Western Environmental Technologies Inc. Inspections The Quality People ASBESTOS SURVEY SAMPLE LOG Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** Page 4 of 5. SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -**HOMOGENEOUS MATERIAL:** LOCATION BY FUNCTIONAL SPACE (FS): CONCRETE SAMPLE NUMBER: Extense Walls 11-M-10A 360 **NOTES** Sequential # 2 -U Block 4" x18" Location/FS Extertor walls NW (NE) NW NE Sample Origin SW SE E/W Location N/S Location Height ^ Floor Component Friable Yes (No) Yes (No) No Good Good Condition Damaged Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None None Rare Rare Rare Accessibility **0&M M**&0 **0&M** Genera Genera) General L)M H **Activity Level** CT JW H L)M H Disturbance L/N PD PSD L/N PD (PSD) L/N PD (PSD **Potential** % ASBESTOS **TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 **SIGNATURE: DATE:** 8/6/2018 Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

ND = No asbestos detected.

Geotechnical Western Environmental Technologies inc. Inspections ASBESTOS SURVEY SAMPLE LOG The Quality People Materials Since 1955 **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -**HOMOGENEOUS MATERIAL:** BY FUNCTIONAL SPACE (FS): M-1013 360 Arck LF: NOTES Sequential # 2- 4 3 -Location/FS Hera Walls for concrete Black NW NE NW NE Sample Origin SW E/W Location N/S Location Height ^ Floor Component Friable Yes No Yes, No Good Good Good Condition Damaged Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None None Rare Rare Rare Accessibility **0&M 0&M 0&M** General (General) seneral CDM H **Activity Level** L)M H L)M H Disturbance L/N PD PSD L/N PD PSB L/N PD PSD Potential **% ASBESTOS TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 **SIGNATURE: DATE:** 8/6/2018 Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.



Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Vestern

The Quality People Since 1955

www.wt-us.com

echnologies

Tucson • (520) 748-2262 • f748-0435 • 3480 South Dodge Boulevard • AZ 85713

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

CHAIN OF CUSTODY

☐ INDUSTRIAL HYGIENE [X] ASBESTOS	☐ MICROBIA!	☐ LEAD
	☐ INDUSTRIAL HYGIENE	X ASBESTOS

Albuquerque • (505) 823-4488 • f 821-2963 • 8305 Washington Place, N.E. • NM 87113

Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

S	
Ö	
ST	
8	
S	
۷	
図	

တ္သ	
9	
S	
Ж	
8	
$\overline{\mathbf{o}}$	
₫	
-	

ı		
ı		
ı	_	
	(GEA	
ı	MANAGE	
ı	MΙ	
ı	JEC	-
1	'n	

TEST METHOD

SAMPLE TYPE

-	Auto	
		Г
	\supset	S
		S
	2 l	ш
	\sim	Œ
	-	I⊼
	-	ADDRESS
Ι.,	حــــــ	∢
٠,		_
		ΙŦ
		MAI
		ıΣ
		177

Auti	
50ga	AIL ADDRESS

Ŧ		<u> </u>	0
マン 	EMAIL ADDRESS	Sinale	

EMAIL ADDRESS	Sinde	\sim) fun/1928	
VOLUME / AREA				

>	scalant (



` >	scalant (.	



>	Jun/1928	



) funlas	

scalant (









black

asphal.

HOURS

REQUESTED TURNAROUND TIME

DAYS

\ \ |X

I ME

- Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

RECEIVED BY - SIGNATUR

とってなり

75

<u>و</u> د

7-11

7.1

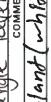
M-1003 1-B



































12

1105 **МАТЕ**В RIA 8AWS WIPE פחרג

SAMPLE LOCATION

TIME

DATE

SAMPLE IDENTIFICATION

7

21983H769 SAMPLER - SIGNATURE

4

3-6

M-9

SAMPLER - PLEASE PRINT NAME

SOWAL

Building

NO. OF CONTAINERS

1000 N CUNCL ST FOR

WIND VEHIC

WT JOB NO.

PROJECT NAME





Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807170

Client:

WESTERN TECHNOLOGIES INC

Rec: 8/6/2018

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone: FAX:

PLM

(602) 437-3737 (602) 470-1341

Samples: 15

Client Job: 2188JH269 / 1000 N Curiel St, Eloy

Method: EPA 600/R-93/116

The "New" Method; see below

PO Number:

Report Date: 8/8/2018

Date Analyzed:

8/8/2018

Routing Number: -

Method and Analysis Information:

PLMn

Fiberquant Internal SOP:

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analysts of Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Page 1 of 8

Fiberquant, Inc.

analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interiab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM Analysis Summary:	Job	Number:	201807170	2188JH269 / 1000 N Curiel St, Eloy
Sample Number Layer Color Ap	Lab Number	Aspestos Results	t Sample Type *	Positive Layer Yes or No
Sample # <u>11-M-9A1-1</u> Layer # 1 off-white sea	2018-07170 alant	- 1 Adhesive		Positive Layer? No
Sample # <u>11-M-9A2-2</u> Layer # 1 off-white sea	2018-07170 alant)- 2 Adhesive no asbestos detect		Positive Layer? No
Sample # 11-M-9A3-3 Layer # 1 off-white sea	2018-07170 alant)- 3 Adhesive no asbestos detect		Positive Layer? No
•	alant	l- 4 Adhesive 2-5% chrysotile as		Positive Layer? Yes
·	2018-07170 alant	i- 5 Adhesive 2-5% chrysotile as		Positive Layer? Yes
•	2018-07170 alant	2-5% chrysotile as		Positive Layer? Yes
·	•	no asbestos detecti	ed .	Positive Layer? No
	-	no asbestos detecti	ed	Positive Layer? No
· · · · · · · · · · · · · · · · · · ·		no asbestos detecti	ed	Positive Layer? No
		no asbestos detecti		Positive Layer? No
		no asbestos detecti	ed	Positive Layer? No
Sample # <u>11-M-10A3-12</u> Layer # 1 gray blo		no asbestos detecti	ed	Positive Layer? No
		no asbestos detecti	ed	Positive Layer? No
		no asbestos detecti	ed	Positive Layer? No
Sample # 11-M-10B3-15 Layer # 1 gray mo	2018-07170 ortar	 15 Miscellan no asbestos detecti 		Positive Layer? No

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

В			
Sample Analytical Note			
Procedure: tweased apart using forceps. Proced	lure: dissolution of matrix	using solvent.	

5025 S. 33rd Street

Phoenix Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

5 6 Sample

2188JH269 / 1000 N Curiel St, Eloy

PLM Analysis Details Job Number: 201807170 Sample 11-M-9B1-4 Lab Number 2018-07170-4 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 Apparent Smp Type Adhesive/caulk An? OK Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? Yes Non-Fibrous Components (in approx. decreasing order): filler, binder, mica/vermiculite Layers Percents of Each Fiber Friability Layer Type % Color Fib 1 FIb 2 FIb 3 FIb 4 Fib 5 100 sealant black 1 2-5% >1-2% Total % 100 Overall % 2-5% >1-2% Fiber Identification: chrysotile asbestos cellulose fiber Refractive Index Determinations Fibers Elg Color 011 Iso Bi Ext Col Par Col Per RI Par RI Per chrysotile asbestos W N 1.550 vb/g sb/o cellulose fiber W N U Н 3 4 5 6

Sample Analytical Note

Surface is off-white. Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample 11-M-9B2-5 Analyzed By GV

An? OK

Lab Number 2018-07170-5

Sampled: 8/6/2018

Condition: acceptable

FIb 6

1.556 1.553

8/8/2018

Apparent Smp Type Adhesive/caulk

Pos Layer? Yes

Fibrous Solid

Homogeneous Yes

Layers 1

Non-Fibrous Components (in approx. decreasing order): filler, binder, mica/vermiculite

Fiber Identification:

	ers						Percents of Each Fiber				
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6	
1	sealant	100	black	1	2-5%	>1-2%	774-01	-	-	-	
	Total %	100		Overall %	2-5%	>1-2%	1.20	•	7.6%	-	

chrysotile asbestos cellulose liber

	Fibers		17905 1				25.107.5		R	efractive I	ndex Dete	rminatio	ns
$\underline{}$	Piders	Color	Mrph	Iso	Pleo	BI	Elg	Ext	011	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	Р	1.550	vb/g	sb/o	1 556	1.553
2	cellulose fiber	W	F	N	N	н	+	U					
3						175.5							-
4					1						-		
5					1							-	
6					-		-						

Sample Analytical Note

Surface is off-white and tan. Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample 11-M-983-6

Lab Number 2018-07170-6

Sampled: 8/6/2018

Condition: acceptable

Analyzed By GV

An? OK

8/8/2018

Apparent Smp Type Adhesive/caulk

Fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? Yes

Non-Fibrous Components (in approx. decreasing order): filler, binder, mica/vermiculite

La	yers					Percents of Each Fiber							
#	Layer Type	%	Color	Friability	FIb 1	Fib 2	Fib 3	Fib 4	Fib S	Fib 6			
1	sealant	100	black	1	2-5%	>1-2%	0.00	,A(1	2.7				
	Total %	100		Overall %	2-5%	>1-2%			77 - 77 g	-			
			Fiber I	destification:	chrysotile asbestos	cellulose fiber		1					

	Fibers	A direct								Refractive Index Determinations					
	riders	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per		
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1,556	1.553		
2	cellulose fiber	W	F	N	N	Н	+	u		77					
3							1	1							
4															
5					-										
6						-						_			

Sample Analytical Note

Surface is off-white and tan. Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Page 5 of 8

5

Fiberquant, Inc.

2188JH269 / 1000 N Curiel St, Eloy

Sample 11-M-10A1-10 Lab Number 2018-07170- 10 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 FIb 4 Fib 5 Fib 6 block 100 1 n.d. 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pieo ВІ Elg Col Par | Col Per | RI Par | RI Per Ext 2 3 4 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 11-M-10A2-11 Lab Number 2018-07170- 11 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber **Layer Type** Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 block 100 orav 1 n.d. Total % 100 Overall % Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Bi Ext OII Col Par Col Per RI Par RI Per поле 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 11-M-10A3-12 Lab Number 2018-07170-12 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Laver Type % Color Friability Fib 1 Fib 2 Fib 5 Fib 6 block 100 n.d. 1 Total % 100 Overall % n.d Fiber Identification: Refractive Index Determinations Fibers Iso 81 Elg Ext Col Par Col Per RI Par RI Per none 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. 5025 S. 33rd Street Phoenix, Arizona 85040-2816 Phone: 602-276-6139 1-800-743-2687

201807170

2188JH269 / 1000 N Curiel St, Eloy

Sample 11-M-10B1-13 Lab Number 2018-07170-13 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 Apparent Smp Type Miscellaneous An7 OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 5 Fib 6 mortar 100 2 100 Overall % Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso BI Ext Col Par | Col Per | RI Par | RI Per none 3 4 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 11-M-10B2-14 Lab Number 2018-07170-14 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 100 2 n.d. 100 Overall % n.d. Fiber Identification: попе Refractive Index Determinations Fibers Color Mrph Iso Pieo Bi Ela Ext Oll Col Par Col Per RI Par RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 11-M-1083-15 Lab Number 2018-07170-15 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type % Friability Color Fib 1 Fib 2 Fłb 3 Fib 4 Fib S Fib 6 mortan 100 2 n.d. Total % 100 Overall % Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg BI Oil Col Par Col Per RI Par RI Per Ext попе 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, strated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may

Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oll=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo); b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon
yellow; vb/g= vivid blue/godi; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive Index parallel to fiber; RI Perp=refractive index perpendicular to fiber

salina B. Volkova

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Approved Accreditation Signatory



PPENDIX

田

FIGURE 8A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 12 (RPA Building D)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar and window glazing. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

Reviewed: V. Aviles	Date: 08-06-2018			
Client: Eloy Elementary School District	Prepared By: A. Smith			
Western Technologies Inc.				
^{Job No.} 2188JH269	Figure No. 8A			
	Client: Eloy Elementary School District Western Tech			

FIGURE 8B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 12 (RPA Building D)



DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet



Reviewed: V. Aviles	Date: 08-06-2018					
Client: Eloy Elementary School District	Prepared By: A. Smith					
Western Technologies Inc.						
Job No. 2188JH269	Figure No. 8B					

TABLE 8 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 12 (RPA Building D)	NON FRIABLE PROJECT NO: 2188JH269			59	
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
12-M-9A1-1, 9A2-2 and 9A3-3	Asphalt Shingles	Roof	NF	Misc	10,140	NO
12-M-9B1-4, 9B2-5 and 9B3-6	Felt	Roof	NF	Misc	10,140	NO
12-M-9C1-7, 9C2-8 and 9C3-9	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
12-M-9D1-10, 9D2-11 and 9D3-12	Sealant (Black, on Roof Penetrations)	Roof	NF	Misc	10	YES
12-M-10A1-13, 10A2-14 and 10A3-15	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,240	NO

Geotechnical Western Environmental Technologies Inc. Inspections ASBESTOS SURVEY SAMPLE LOG The Quality People Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** SAMPLED SITE: Eloy Elementary School -SITE ADDRESS: 1000 North Curiel Street, Eloy, Arizona Bldg 12+13 LOCATION BY FUNCTIONAL SPACE (FS): **HOMOGENEOUS MATERIAL:** 12-M-9A SF: 101410 LF: **NOTES** Sequential # Location/FS NW NE Samples for roof of Bldg 12+Bldg13 Sample Origin SW (SE) E/W Location N/S Location Height A Floor Component: Friable Yes (No Yes No Good Good G000 Damaged Condition Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None (Vone) Rare Rare Rare Accessibility **0&M 0&M 0&M** General General General **Activity Level** (L) M H (1) M H м н Disturbance L/N PD RSD L/N PD PSD L/N PD (PSD Potential % ASBESTOS **TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 SIGNATURE: **DATE: 8/6/2018** Remarks: The percent and type assestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Environmental Inspections Materials Since 1955 wt-us.com			ASBESTOS SURVEY SAMPLE LOG				
CLIENT: Eloy Elem	entary School Dis	trict	PROJECT NO: 2	188JH269	Page 2 of 7.			
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -					
Alizona	Alizona			Blog 12 + Blog 13				
HOMOGENEOUS N	/ATERIAL:		LOCATION BY F					
Felt			book					
SAMPLE NUMBER:			TOTAL QUANTI	TY:				
12-M-	98		SF: 10140	LF:				
Sequential #	1-4	2- 5	3- (0		NOTES			
Location/FS	B00+-		3					
Sample Origin	NW NE SW SE	NW (NE) SW SE	NW NE SW (SE)	Sam	ples for of Bldg12+ Bldg13			
E/W Location	2470	ENTW	Oftw	000	of DIL 1-			
N/S Location	045	offs	afty	K004	Of Blog 12+			
Height ^ Floor	off-		7		RH-13			
Component	floor-		-5		bog (5			
Friable	Yes 😡	Yes 🐿	Yes 阪					
	600	Good	660					
Condition	Damaged	Damaged	Damaged					
	Sig. Dam.	Sig. Dam.	Sig. Dam.					
Accessibility	None Rare	None Rare	None Rare					
Accessibility	O&M	O&M	0&M					
Activity Level	General OM H	General OM H	General M H					
Disturbance								
Potential	L/N PD (SD)	L/N PD (SD)	L/N PD (SD)					
% ASBESTOS	WD-							
TYPE ASBESTOS								
		INSPECTOR(S	s) / ACCREDITATIO	ON NO.				
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. ☐ Matt Steinhoff, TAI ID No. ☐ Ryan Fasci, TAI ID No.	ID No. G8456, Expiration G7027, Expiration May 5	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmqu☐ Ryan Cleary,☐ Sean Moggrid	uist, TAI, ID No. G7810 , TAI, ID No. G8455, Ex	Expiration April 6, 2019 D, Expiration November 3, 2018 Opiration April 6, 2019 D71220001, Exp. December 20, 2018 Dovember 8, 2018			
SIGNATURE:	VIII She	<		DATE: 8/6/2				
laborato	ent and type asbesto ry report. asbestos detected.	s are entered upon	completion of laborat	tory analysis. The da	te of analysis is available on the			

Geotechnical Environmental Inspections Materials wt-us	The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG				
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 21	188JH269 Page <u>3</u> of <u>7</u> .			
SITE ADDRESS: 100 Arizona	SITE ADDRESS: 1000 North Curiel Street, Eloy, Arizona			Eloy Elementary School -			
HOMOGENEOUS N	HOMOGENEOUS MATERIAL:			UNCTIONAL SPACE (FS):			
Sealan	+		Koot				
SAMPLE NUMBER:	3. a		TOTAL QUANTI	TY:			
12-M-C	10		SF: D	LF:			
Sequential #	1- /	2- 8	3-9	NOTES			
Location/FS	hoof		2	1.2124			
Sample Origin	NW NE SW SE	NW NE SW SE	NW (NE) SW SE	WWH ROOF penedration On HUAC			
E/W Location	10ftE	227F	18F1W				
N/S Location	GETS	Coffs	(d)S	On HUAC			
Height ^ Floor	064-		7				
Component	floor-						
Friable	Yes (No	Yes Mo	Yes 😡				
Condition	Good Damaged	Good Damaged	600d Damaged				
	Sig. Dam.	Sig. Dam.	Sig. Dam.				
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General				
Activity Level	Фмн	<u>(</u>) м н	О м н	3			
Disturbance Potential	L/N PD (SD)	L/N PD (SD)	L/N PD RSD				
% ASBESTOS	3		-)				
TYPE ASBESTOS							
	-	INSPECTOR() / ACCREDITATION	ON NO.			
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, I ☐ Jason Criss, TAI, ID No. C ☐ Matt Steinhoff, TAI ID No. G SIGNATURE:	D No. G8456, Expiratio 57027, Expiration May ! lo. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	O18 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 ☑ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018				
	ent and type acheere	s are entered upon	completion of laborat	DATE: 8/6/2018 tory analysis. The date of analysis is available on the			
laborato	ry report. asbestos detected.	a are entered abou	completion of laborat	uniy analysis. The date of analysis is available on the			

Geotechnical Environmental Inspections Materials wt-us	Inspections Materials Technologies Inc. The Quality People Since 1955 wt-us.com			ASBESTOS SURVEY SAMPLE LOG					
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2	Page 4 of 7.					
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	: Eloy Elementary School -					
Arizona			Bld9 12						
HOMOGENEOUS N	1ATERIAL:		LOCATION BY	FUNCTIONAL SPACE (FS):					
Sec	laut		De	A					
SAMPLE NUMBER:			TOTAL QUANTI	ITY:					
12-	12-M-9D			LF:					
Sequential #	1- 10	2-	3-12	NOTES					
Location/FS	had		3	Black,					
Sample Origin	NW NE SW SE	NW) NE SW SE	NW NE SW SE	Black, Roof Penetration					
E/W Location	IONIN	POCHE	2046	1,000					
N/S Location	2145	465	485						
Height ^ Floor	041 -		-5						
Component	floor-		-						
Friable	Yes No	Yes 🐚	Yes 😡						
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.						
Accessibility	None Rare O&M General	Rare O&M General	None Rare O&M General						
Activity Level	(Т)и н	О М Н	€DM H						
Disturbance Potential	L/N PD (SD)	L/N PD (PSD)	L/N PD PSD						
% ASBESTOS	2-5%		-						
TYPE ASBESTOS	Clayoble -		->						
		INSPECTOR(S) / ACCREDITATI	ION NO.					
 □ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 20 □ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 □ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 □ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 □ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 			O18						
SIGNATURE:	SIGNATURE:			DATE: 8/6/2018					
laborato	ent and type asbestory report. asbestos detected.	os are entered upon	completion of labora	atory analysis. The date of analysis is available on the					

Geotechnical Environmental Inspections Materials wt-us	The Quality F Since 1955	ogies Inc. People	AS	BESTOS SURVE	EY SAMPLE LOG
CLIENT: Eloy Eleme	entary School Dist	trict	PROJECT NO: 22	188JH269	Page <u>5</u> of <u>7</u> .
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary	/ School -
Aireoile				dg 12	
HOMOGENEOUS N	ATERIAL:			UNCTIONAL SPA	CE (FS):
SAMPLE NUMBER:	,		TOTAL QUANTI	let walk	
	$\dot{\wedge}$		Dun		
12-M-10	1- 12	2 1/1		LF:	NOTES
Sequential #		2- 4	3- 5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Location/FS	Extendenals	NW (NE)	NW NE	Taland	. 011
Sample Origin	SW SK	SW SE	SW SP	DIDGE	~ 4"X18"
E/W Location	OHE	Oftw	Atw		
N/S Location	Offs	OH5	Oftn		
Height ^ Floor	54	64	54		
Component	Wall-		→		
Friable	Yes 🕪	Yes 😡	Yes No		
	Good	Good	Good		
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.		- 1
	None	None	None		4.6
Accessibility	Rare O&M	Rare	Rare O&M		
	General	O&M Genera	General		
Activity Level	⊕w H	Омн	€ M H		
Disturbance Potential	L/N PD (ESD	L/N PD RSD	L/N PD (SD)		
% ASBESTOS	ND-		9		
TYPE ASBESTOS					
		INSPECTOR(S) / ACCREDITATI	ON NO.	
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. 0 ☐ Matt Steinhoff, TAI ID No. 0 ☐ Ryan Fasci, TAI ID No. 0	ID No. G8456, Expiratio G7027, Expiration May	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmq☐ Ryan Cleary☐ Sean Moggri	juist, TAI, ID No. G7810 , TAI, ID No. G8455, Ex	71220001, Exp. December 20, 2018
SIGNATURE:	Mux 2	HA		DATE: 8/6/2	2018
laborato	ent and type asbestory report. asbestos detected.	os are entered upon o	completion of labora	tory analysis. The dat	te of analysis is available on the

Geotechnical Environmental Inspections Materials wt-us.	The Quality I Since 1955	ogies Inc. People	AS	SBESTOS SURV	EY SAMPLE LOG
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 22	188JH269	Page <u>6</u> of <u>7</u> .
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementar	y School -
Arizona			Blg	12	
HOMOGENEOUS N	IATERIAL:		LOCATION BY F	UNCTIONAL SPA	ACE (FS):
Most	as			of ualls	,
SAMPLE NUMBER:	1 1 . 17		TOTAL QUANTI	TY:	
12-1	11-10B		SF: 1240 au	CA LF:	
Sequential #	1- 6	2-17	3-18		NOTES
Location/FS	Extenorale		-7	0	0-0-0
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE SW (SE)	101	Concrete Floris
E/W Location	OHE	OHW	Atw		Dock
N/S Location	245	945	Offn		C MA
Height ^ Floor	54+	Coft	56+		
Component	Wall-		ク		
Friable	Yes No	Yes No	Yes No		
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.		
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M Genera		
Activity Level	Т М Н	₩ H	Дм н		
Disturbance Potential	L/N PD (PSD)	L/N PD 😡	L/N PD PSD		
% ASBESTOS	ND		Ð		
TYPE ASBESTOS					
5		INSPECTOR(S	S) / ACCREDITATI	ON NO.	
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. 0☐ Matt Steinhoff, TAI ID No. 0☐ Ryan Fasci, TAI ID No. 0	ID No. G8456, Expiratio G7027, Expiration May No. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmq☐ Ryan Cleary☐ Sean Moggri	uist, TAI, ID No. G781 , TAI, ID No. G8455, E	, Expiration April 6, 2019 O, Expiration November 3, 2018 xpiration April 6, 2019 171220001, Exp. December 20, 2018 D. November 8, 2018
SIGNATURE:	ally.	LAND		DATE: 8/6/	2018
laborato	ent and type asbestory report. asbestos detected.	os are entered upon	completion of labora	tory analysis. The da	ate of analysis is available on the

Geotechnical Western Environmental Technologies Inc. ASBESTOS SURVEY SAMPLE LOG Inspections The Quality People Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -Arizona **HOMOGENEOUS MATERIAL: LOCATION BY FUNCTIONAL SPACE (FS):** Exterior walls 12-M-101 se: 20 LF: 2-20 **NOTES** Sequential # Location/FS NW NE Sample Origin E/W Location N/S Location Height ^ Floor Component Friable Yes No Yes No Yes No Good Good Damaged Condition Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None None Rare Rare Rare Accessibility M&0 **M**&0 **0&M** General General generab (Д)М Н **Activity Level** λин (L) M H Disturbance L/N PD PSD L/N PD RSD L/N PB PSD Potential % ASBESTOS **TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ John Holmquist, TA1, ID No. G7810, Expiration November 3, 2018 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 SIGNATURE: **DATE:** 8/6/2018 Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report. ND = No asbestos detected.

Wes	Tec	Inc.	The O
5	1		

hnologies tern

Q<u>uality</u> People Since 1955

www.wf-us.com

Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004

Prescott * (928) 443-5010 * f 443-7392 * 1040 Sandretto Drive, Suite C * AZ 86305 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 8740 Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 8411 Phoenix * (602) 437-3737 * f 470-1341 * 3737 East Broadway Road * AZ 85040 Durango • (970) 375-9033 • f375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

>
0
S
\equiv
$\overline{\mathbf{c}}$
U
LL.
OF
7
4
7
六
O

HYGIENE MICROBIAL	Aviles	200 Y 700
☐ INDUSTRIAL HYGIENE ☑ ASBESTOS	PROJECT MANAGER ()(CV3) EMAIL ADDRESS	of of of
ΠÄ	A38A \	BMU
18 E. • NM 87113 M 87401 UT 84115	TEST METHOD	

SAMPLE TYPE

PROJECT ADDRESS

PROJECT NAME

		32	8-0				_			1231		-							A.—					
	DICKY AWIRS	Snote laver Analysis	COMMENTS	asophalf shingles		7	felt		7	scalant (white)	, -	, , ,	scalant (Huck)	, –)	concrete blak	tos	ナ	mortar		→	ITE TIME RECEIVED BY — SIGNATURE	REQUESTED TURNAROUND TIME	[
_	A38A	۲/ awn10	٥٨ کخ																		<u>-</u> 5	DATE	REGI	•
MEI DO			\ 	×																	_			1
2																						SIGNATURE		_ _
7		83TA 111																				1	TIME	
SAMPLE			IA																			RELINDUISHED BY	DATE	
		IDE ICK	าย	×														_			->	<u>«</u>	<u></u>	1
-). OF CO	DN		-						2										>	()	SCHATURE	
•	1000N CUTALST / ELOY	SAMPLER - PLEASE PRINT NAME A JIM L	SAMPLE LOCATION	Birlong 12	7																¥	TE TIME RECEIVED BY - SIGNATURE	_	ト
	PURCHA	SAMPLER	TIME																			Shek	. 1	
	CIMPLE NESHAP WIT JOB NO.	SAMPLEN SIGNATURE	SAMPLE IDENTIFICATION DATE	2-N-9/2 1-1 08/04/2	2-2	33	12-M-921-4	, 25	1 36	12-M-9C 1-7	1 2.8	4 3-9 1	12-M-90 1-10	2-11	2-12	12-M-114-13	10 -2	N 2-15	12-M-10B (- 16)	1 27 (_	RELINGUISHED BY — SIGNATURE	RELINDUISHED BY - SIGNATURE	

HOURS

DAYS



The Quality People Since 1955

www.wf-us.com

Technologies Western

Flagstaff • (928) 774-8700 • f774-6469 • 2400 East Huntington Drive • AZ 86004

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113 Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040 Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

PROJECT ADDRESS

PROJECT NAME

>
\sim
S
$\overline{}$
O
11
<u> </u>
0
Z
4
7
_
O

MICROBIA	☐ LEAD
☐ INDUSTRIAL HYGIENE	X ASBESTOS

☐ LEA!	•
X ASBESTOS	PROJECT MANAGER

	PROJECT ADDRESS			SAMPLE TYPE	TEST METHOD		
SELMOUSHED BY - SIGNATURE	1000 N. C. Nel St, 5107		NER				MCAN AWIRS
WIPE SUMULSHED BY - SIGNATURE		IIATVO					EMAIL ADDRESS
WINDUISHED BY - SIGMATURE	SAMPLER - PLEASE PRINT NAME A. SMITH	O 10 (ье гк	ЯЗТ/	47	rowe	Single layer Avalys:
REINQUISHED BY — SIGMATURE DATE TIME	E LOCATION	DN -	IM	IIA \W	4 3	DΛ	COMMENTS
- SIGMATURE DATE TIME	Dallaing 10		<u> </u>		\		- 1
- SIGMATURE DATE TIME	3	-3			3		4
- SIGNATURE DATE TIME							
- SIGMATURE DATE TIME							
- SIGNATURE DATE TIME			-				
- SIGNATURE DATE TIME			+				
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME				-			
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME							
- SIGNATURE DATE TIME	The Conference and Supply Advances						
- SIGNATURE DATE TIME							
	DATE TIME RECEIVED BY - SIGNATURE		RETI		SNATURE	DATE	TIME
	シア ノ くつる はる	1					

DA

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

DAYS

C

HOURS

REQUESTED TURNAROUND TIME



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807171

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples: Report Date: 21 PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method: see below

Client Job: 2188JH269 / 1000 N Curiel St, Eloy 8/8/2018

Date Analyzed:

8/8/2018

Routing Number: -

PO Number:

Method and Analysis Information:

Fiberquant Internal SOP: **PLMn**

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive Index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Page 1 of 10

Fiberquant, Inc.

estimation procedure. Microscope alignment is checked each day. Refractive Index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM Analysis Sumi	mary:	Job Nu	ımber:	201807171	2188JH269 / 1000 N Curiel St, Eloy
Sample	Number	Lab Number	Apparent	: Sample Type *	Positive Layer Yes or No
Layer C	olor Apparent Layer T	уре* А	sbestos Results		
Sample # 12-M-9# Layer # 1 b	11-1 lack roofing roll/shingle	2018-07171- 1	Roofing asbestos detecto	nd	Positive Layer? No
Sample # <u>12-M-9</u> #		2018-07171- 2			Positive Layer? No
Sample # <u>12-M-94</u> Layer #1 b		2018-07171- 3	Roofing asbestos detecto	ed	Positive Layer? No
Sample # <u>12-M-9E</u> Layer #1 b	11-4 lack roof ply	2018-07171- 4 no	Roofing asbestos detecte	ed .	Positive Layer? No
Sample # <u>12-M-9E</u> Layer #1 b	2-5 lack roof ply	2018-07171- 5 no	Roofing asbestos detecto	ed	Positive Layer? No
Sample # <u>12-M-98</u> Layer #1 b	I3-6 lack roof ply	2018-07171- 6 no	Roofing asbestos detecto	ed	Positive Layer? No
•	hite sealant		asbestos detecte		Positive Layer? No
• • • • • • • • • • • • • • • • • • • •	hite sealant	2018-07171- 8 no	Adhesive asbestos detecto		Positive Layer? No
·	hite sealant		asbestos detecto		Positive Layer? No
	lack caulk		5% chrysotile asi	estos	Positive Layer? Yes
•	lack caulk		5% chrysotile ast	estos	Positive Layer? Yes
	lack caulk		5% chrysotile ast		Positive Layer? Yes
	ray block		asbestos detecte	d	Positive Layer? No
	ray block		asbestos detecte	d	Positive Layer? No
-	ray block		asbestos detecto	ed .	Positive Layer? No
	ray mortar		asbestos detecte	d	Positive Layer? No
	ray mortar		asbestos detecto	d	Positive Layer? No
_	ray mortar		asbestos detecto	ed .	Positive Layer? No
	hite putty		asbestos detecte	d	Positive Layer? No
	ray putty		1% chrysotile as	bestos	Positive Layer? No
Sample # <u>12-M-10</u> Layer #1 w	C3-21 hite putty	2018-07171- 2 no	1 Adhesive asbestos detecte		Positive Layer? No

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

# Layer Type % Color Friabil	ity Fib 1	Fib 2	Fib 3	FIb 4	Fib 5	
1				110 4	FID 5	Fib 6
1 roofing roll/shingle 100 black 1	5-10%	-	-	-		-
Total % 100 Overa	1 % 5-10%			- 7		

-	16									lefractive I			
	lbers	Color	Mrph	Iso	Pieo	BI	Elg	Ext	Oll	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2				3		7.4							
3			1							1			
4								-			91-93		5
5		-			_				-				
6	14.00												-

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139 1-800-743-2687 FAX: 602-276-4558

Sample Analytical Note

#	Layer Type	%	Color	Friability		Fib 1		Fib 2	1	Fib 3	1	Fib 4	Fib 5	I	Fib 6
1	sealant	100	white	1		n.d.						- 1	-		-
	Total %	100		Overall %		n.d.		-				- 1		T	
			Fiber I	dentification:	none	17/15/2015			I		I				
							1325			2.42	F	lefractive I	ndex Dete	rmination	ns
P1	bers			Color	Menh	Ten	Plea	mi	Ele	Eve	Oil	Cal Day	Cal Bas	DI Dec	DT Des

								2.63	F	lefractive I	ndex Deter	rmination	ns .
Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1	none		1000	1									
2			dia.					200			-		
3										1	9		
4						-	10						
5													
6											- TOO 1	- 77	

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

	_		
5025	S.	33rd	Street

chrysotile asbestos

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Color

Mrph

Iso

N

Pieo

Bi

Elg

Ext

1.550

db/ly

Oil Coi Par Coi Per RI Par RI Per

sb/a

1.561 1.553

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Phone: 602-276-6139 1-800-743-2687 FAX: 602-276-4558

Page 7 of 10

5 6

Fiberquant, Inc.

	The second second second		-		-	1.00		-					
	FI	ber Identification	none				T					\Box	
Elbara.	¬							- 50	F	lefractive I	ndex Dete	rminatio	ns
Fibers		Color	Mrph	Iso	Pleo	Bí	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1	none					111							
2										25-19	1		
3											-		
4					1						-		
-			+	_	-		+	_	_	-			-

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

5025 S. 33rd Street

Phoenix, Arizona 8504

85040-2816

Phone: 602-276-6139

1-800-743-2687

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Page 9 of 10

4 5 6

Fiberquant, Inc.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers, CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=leth-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oll=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst: MICHAEL A. COOK

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Larry S. Pierse, Approved Ac

Approved Accreditation Signatory

Phone: 602-276-6139

TABLE 8 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT:		SITE ID: Building 12	FRIABLE/	PROJECT NO) : 2188JH26	59
NESHAP Asbestos Survey		(RPA Building D)	NON			
Curiel Primary School			FRIABLE			
1000 North Curiel Street						
Eloy, Arizona						
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
12-M-10B1-16, 10B2-17 and 10B3-18	Mortar (for concrete block)	Exterior Walls	NF	Misc	1240 area	NO



FIGURE 9A - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 13 (RPA Building D)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar and window glazing. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

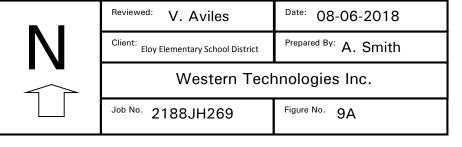


FIGURE 9B - ASBESTOS CONTAINING BUILDING MATERIAL LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 13 (RPA Building D)

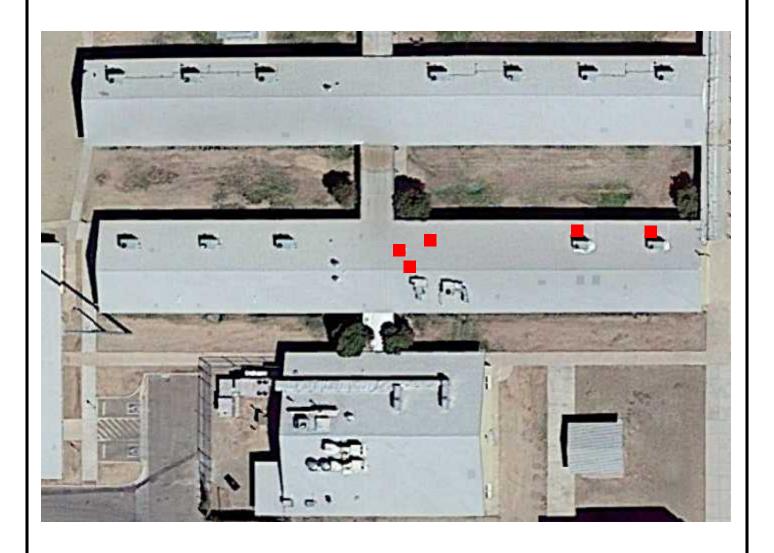


DIAGRAM NOT TO SCALE

LEGEND

Sealant for Roof Penetrations (ACBM), Approximately 10 square feet

N	

Reviewed: V. Aviles	Date: 08-06-2018						
Client: Eloy Elementary School District	Prepared By: A. Smith						
Western Technologies Inc.							

Job No. 2188JH269

Figure No. 9B

TABLE 9 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona	SITE ID: Building 13 (RPA Building D)	FRIABLE/ NON FRIABLE	PROJECT NO) : 2188JH26	59	
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
13-M-9A1-1, 9A2-2 and 9A3-3	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
13-M-9B1-4, 9B2-5 and 9B3-6	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	YES
13-M-10A1-7, 10A2-8 and 10A3-9	Concrete Block (4"x18")	Exterior Walls	NF	Misc	1,360	NO
13-M-10B1-10, 10B2-11 and 10B3-12	Mortar (for concrete block)	Exterior Walls	NF	Misc	1360 area	NO
13-M-10C1-13, 10C2-14 and 10C3-15	Window Glazing	Exterior Walls	NF	Misc	20	NO

Geotechnical Environmental Inspections Materials	The Quality I Since 1955	ogies Inc. People	A:	SBESTOS SURVEY SAMPLE LOG
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2	188JH269 Page of
SITE ADDRESS: 100 Arizona	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -
HOMOGENEOUS N	ATERIAL:		LOCATION BY F	FUNCTIONAL SPACE (FS):
Seal	aut		Re	pof
SAMPLE NUMBER:			TOTAL QUANTI	ITY:
13-1	M-9A		SF: 15	LF:
Sequential #	1-	2- 2	3-3	NOTES
Location/FS	200f-	AS	7 10	DDAte.
Sample Origin	NW (NE) SW SE	SW SE	SW SE	White, Roof Penetronian HWAi
E/W Location	1446	1444	86224	HW
N/S Location	Coffs	uffs	645	Cas HVAC
Height ^ Floor	Oft-		>	ON TO
Component	11001-		->	
Friable	Yes No	Yes No	Yes 😡	
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General	
Activity Level	(Т) М Н	О м н	Ом н	
Disturbance Potential	L/N PD PSD	L/N PD PSD	L/N PD(PSD)	
% ASBESTOS	ND-			
TYPE ASBESTOS				
		INSPECTOR(S) / ACCREDITATION	ON NO.
☐ Vicky Aviles, The Asbest☐ Suzette Numkena, TAI,☐ Jason Criss, TAI, ID No. 0☐ Matt Steinhoff, TAI ID No. 0☐ Ryan Fasci, TAI ID No. 0☐	ID No. G8456, Expiratio G7027, Expiration May No. G7675, Expiration O	n April 6, 2019 5, 2018 Ictober 6, 2018	☐ John Holmq: ☐ Ryan Cleary, ☐ Sean Moggri	ude, TAI, ID No. G8459, Expiration April 6, 2019 quist, TAI, ID No. G7810, Expiration November 3, 2018 7, TAI, ID No. G8455, Expiration April 6, 2019 ridge, Field Science, Al171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018
SIGNATURE:	(ells	State	•	DATE: 8/6/2018
laborato	ent and type asbestory report. asbestos detected.		completion of laborat	tory analysis. The date of analysis is available on the

Geotechnical Environmental Inspections Materials wt-us	The Q <u>uality</u> F Since 1955	ogies Inc. People	AS	SBESTOS SURVEY SAMPLE LOG						
CLIENT: Eloy Eleme	entary School Dist	trict	PROJECT NO: 21	188JH269 Page 2 of 5.						
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -						
Arizona			Bldg13							
HOMOGENEOUS N	IATERIAL:		LOCATION BY FUNCTIONAL SPACE (FS):							
Sla	lant		2004							
SAMPLE NUMBER:			TOTAL QUANTITY:							
13-	M-9B		SF: \O	LF:						
Sequential #	1-4	2-5	3-6	NOTES						
Location/FS	hog	100		Black,						
Sample Origin	NW NE '	NW NE SW SE	AW NE SW SE	Black, Roof penetration						
E/W Location	LOSTE	UFLE	4ffE	war beneadabl						
N/S Location	Casts	845	10845							
Height ^ Floor	044-		7							
Component	£1000-		->							
Friable	Yes (No	Yes No	Yes 🐚							
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.							
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General							
Activity Level	€ М Н	Н М	Ф м н							
Disturbance Potential	L/N PD (SD)	L/N PD (SD)	L/N PD ASD							
% ASBESTOS	2-5% -		_S							
TYPE ASBESTOS	Chrysolie-		- 5							
	1800000	INSPECTOR(S) / ACCREDITATION	ON NO.						
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. (☐ Matt Steinhoff, TAI ID No. (☐ Ryan Fasci, TAI ID No. (ÍD No. G8456, Expiration 37027, Expiration May S Io. G7675, Expiration On	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmqu ☐ Ryan Cleary, ☐ Sean Moggri	ide, TAI, ID No. G8459, Expiration April 6, 2019 uist, TAI, ID No. G7810, Expiration November 3, 2018 TAI, ID No. G8455, Expiration April 6, 2019 dge, Field Science, Al171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018						
SIGNATURE:	ally	H60_		DATE: 8/6/2018						
laborato	ent and type asbesto ry report. asbestos detected.	s are entered upon	completion of laborat	tory analysis. The date of analysis is available on the						

Geotechnical Environmental Inspections Materials wt-us	The Quality P Since 1955	ogies Inc. People	AS	SBESTOS SURVEY SAMPLE LOG							
CLIENT: Eloy Eleme	entary School Dist	rict	PROJECT NO: 21	188JH269 Page <u>3</u> of <u>5</u> .							
SITE ADDRESS: 100	0 North Curiel Str	eet. Eloy,	SAMPLED SITE:	Eloy Elementary School -							
Arizona			Bldg1=								
HOMOGENEOUS M	ATERIAL:		LOCATION BY F	UNCTIONAL SPACE (FS):							
Concrete	Blackts		Exterior	V							
SAMPLE NUMBER:	•		TOTAL QUANTITY:								
13-M-1	.oA		SF: 1360	LF:							
Sequential #	1. 7	2-8	3- 9	NOTES							
Location/FS	Extensionals		7	St V till . C.							
Sample Origin	NW NE	NW NE SW SE	NW (NE) SW SE	Black 4" x186							
E/W Location	OHE	CHE	Oftw								
N/S Location	Ofth	DAS	945								
Height ^ Floor	64	CSF	484								
Component	Wall										
Friable	Yes J	Yes 😡	Yes No								
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.								
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General								
Activity Level	(L)M H	CDM H	Фм н	, iii							
Disturbance Potential	L/N PD SD	L/N PD PSD	L/N PD PSD								
% ASBESTOS	- au										
TYPE ASBESTOS	W-		>	= 10							
		INSPECTOR(S) / ACCREDITATION	ON NO.							
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. (☐ Matt Steinhoff, TAI ID No. (☐ Ryan Fasci, TAI ID No. (ID No. G8456, Expiration G7027, Expiration May S No. G7675, Expiration Oc	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmqu ☐ Ryan Cleary, ☐ Sean Moggri	uide, TAI, ID No. G8459, Expiration April 6, 2019 uist, TAI, ID No. G7810, Expiration November 3, 2018 , TAI, ID No. G8455, Expiration April 6, 2019 idge, Field Science, AI171220001, Exp. December 20, 2018 TAI, ID No. G7791, Exp. November 8, 2018							
SIGNATURE:	lf Attin			DATE: 8/6/2018							
laborato	ent and type asbestory report. asbestos detected.	s are entered upon	completion of laborat	tory analysis. The date of analysis is available on the							

Geotechnical Western Environmental Technologies Inc. **ASBESTOS SURVEY SAMPLE LOG** Inspections The Quality People Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** Page 4 of 5. SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -Arizona LOCATION BY FUNCTIONAL SPACE (FS): **HOMOGENEOUS MATERIAL:** SAMPLE NUMBER: 3-M-60 ara LF: NOTES 3 -Sequential # 2 -11 Location/FS Exterior walk NW NE (NW) NE MW (MB) Sample Origin SW SE SW SE E/W Location N/S Location Height ^ Floor Component Friable Yes . Ne Yes No Yes (No) (Gpog) (Good) Good) Condition Damaged Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None None Rare Rare Rare Accessibility **0&M 0&M 0&M** <General General Genera м н **Activity Level** L M H L)M H Disturbance L/N PD PSD L/N PD (SD L/N PD PSD Potential **% ASBESTOS TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 Ryan Fasci, TAI ID No. G8292, Expigation March 7, 2019 🕵 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 **SIGNATURE: DATE: 8/6/2018** Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

Geotechnical Western Environmental Technologies Inc. **ASBESTOS SURVEY SAMPLE LOG** Inspections The Quality People Materials Since 1955 wt-us.com **CLIENT:** Eloy Elementary School District **PROJECT NO: 2188JH269** Page <u>5 of 5</u>. SITE ADDRESS: 1000 North Curiel Street, Eloy, SAMPLED SITE: Eloy Elementary School -Arizona LOCATION BY FUNCTIONAL SPACE (FS): **HOMOGENEOUS MATERIAL:** SAMPLE NUMBER: 3-M-10 SF: 20 NOTES Sequential # Location/FS Extertor with NW NE NW NE Sample Origin E/W Location N/S Location Height ^ Floor Component Friable Yes No. Yes No Good (Good) Condition Damaged Damaged Damaged Sig. Dam. Sig. Dam. Sig. Dam. None None None Rare Rare Rare Accessibility **0&M** 0&M General General General МН **Activity Level** \square M H Disturbance L/N PD (ASD) L/N PD (RSD Potential % ASBESTOS **TYPE ASBESTOS** INSPECTOR(S) / ACCREDITATION NO. ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019 ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018 ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019 ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018 ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018 🗀 Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018 Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018 **SIGNATURE: DATE: 8/6/2018** Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.
ND = No asbestos detected.



Tucson • (520) 748-2262 • f748-0435 • 3480 South Dodge Boulevard * AZ 85713

Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Flagstaff • (928) 774-8700 • [774-6469 • 2400 East Huntington Drive • AZ 86004

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113

Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118 Sait Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

CHAIN OF CUSTODY

☐ MICROBIAL	☐ LEAD
☐ INDUSTRIAL HYGIENE	X ASBESTOS

X ASBESTOS

TEST METHOD

SAMPLE TYPE

EMAIL ADDRESS

VOLUME / AREA

TIOS

H3TAW ЯIA

8AW2 MIBE BNLK

Fulldfrg 13

SAMPLE LOCATION

NO. OF CONTAINERS

SAMPLER - PLEASE PRINT NAME

4.3 with

TIME

DATE

SAMPLE IDENTIFICATION

3-M-94/-

1000 N CUNE ST

C. MARA NESHAP

PROJECT NAME

2168514

PROJECT ADDRESS

www.wt-us.com

12/20

2434

Scalant

nortan

1083/2

1-2801

01-1601

3-M-

1043-9

8-2 4CI

13-M-10A1-7

953-6

5-286

13-M-901-4

13-M-10C1-13

11-270

RECEIVED BY - SIGNATURE TIME

RELINGUISHED BY

RELINGUISHED

DATE

REQUESTED TURNAROUND TIME

DAYS

HOURS

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

Harmon Marine Ball



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807167

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples:

15

Method and Analysis Information:

PLM Rec: 8/6/2018

Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 2188JH269 / 1000 N Curiel St, Eloy

PO Number:

Routing Number: -

Report Date:

B/8/2018

Date Analyzed:

8/8/2018

Fiberquant Internal SOP:

PLMn Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each

layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analysis, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Page 1 of 9

Fiberquant, Inc.

analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interiab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Number:

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

201807167

2188JH269 / 1000 N Curiel St, Eloy

DIE	d An	alve	le Ci	ımma	277.5
rur	T AUI	BIVS.	12 JL	unune	100

•				
Sample Number		Lab Number	Apparent Sample Type *	Positive Layer Yes or No
Layer Color	Apparent Layer Ty	pe * Asbe	stos Results	
Sample # <u>13-M-9A1-1</u> Layer # 1 white	sealant	2018-07167- 1 no ast	Adhesive/caulk	Positive Layer? No
Sample # <u>13-M-9A2-2</u> Layer # 1 white	sealant	2018-07167- 2 no asb	Adhesive/caulk estos detected	Positive Layer? No
Sample # 13-M-9A3-3 Layer #1 white	sealant	2018-07167- 3 no ast	Adhesive/caulk sestos detected	Positive Layer? No
Sample # <u>13-M-9B1-4</u> Layer # 1 black	sealant	2018-07167- 4 2-5%	Adhesive/caulk chrysotile asbestos	Positive Layer? Yes
Sample # <u>13-M-9B2-5</u> Layer # 1 black	sealant	2018-07167- 5 2-5%	Adhesive/caulk chrysotile asbestos	Positive Layer? Yes
Sample # <u>13-M-9B3-6</u> Layer # 1 black	sealant	2018-07167- 6 2-5%	Adhesive/caulk chrysotile asbestos	Positive Layer? Yes
Sample # <u>13-M-10A1-7</u> Layer # 1 gray	block	2018-07167- 7 no asb	Cementitious estos detected	Positive Layer? No
Sample # 13-M-10A2-8 Layer # 1 gray	block	2018-07167- 8 no asb	Cementitious	Positive Layer? No
Sample # <u>13-M-10A3-9</u> Layer # 1 gray	block	2018-07167- 9 no asb	Cementitious estos detected	Positive Layer? No
Sample # <u>13-M-10B1-10</u> Layer # 1 gray	mortar	2018-07167- 10	Cementitious	Positive Layer? No
Sample # 13-M-10B2-11 Layer # 1 gray	mortar	2018-07167- 11 no asb	Cementitious	Positive Layer? No
Sample # <u>13-M-10B3-12</u> Layer #1 gray	mortar	2018-07167- 12 no asb	Cementitious estos detected	Positive Layer? No
Sample # 13-M-10C1-13 Layer # 1 off-white	sealant	2018-07167- 13 <=1%	Adhesive/caulk chrysotile asbestos	Positive Layer? No
Sample # 13-M-10C2-14 Layer # 1 gray	sealant	2018-07167- 14	•	Positive Layer? No
Sample # <u>13-M-10C3-15</u> Layer # 1 gray	sealant	2018-07167- 15	Adhesive/caulk chrysotile asbestos	Positive Layer? No

Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

5025 S. 33rd Street

Phoenix, Arizona

85040-2816

Phone: 602-276-6139

1-800-743-2687

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

	Fibers								R	efractive I	ndex Dete	rmination	15
	710613	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	Р	1.550	db/ly	sb/o		1.553
2									1.000			1,500	11000
3													
4							-						
5									-				
6			1						-			-	
			-l 1				1						

chrysotile asbestos

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Fiber Identification:

Phone: 602-276-6139

1-800-743-2687

Job Number:

201807167

2188JH269 / 1000 N Curiel St, Eloy

Sample 13-M-10A1-7

Lab Number 2018-07167-7

Sampled: 8/6/2018

Condition: acceptable

Analyzed By JCJ

8/8/2018

An? OK

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

				l_			Percents of	l Each Fiber		
#	Layer Type	%	Calor	Friability	Flb 1	Fib 2	Fib 3	FIb 4	Fib 5	Fib 6
1	block	100	gray	1	n.d.	•	- 2	-	-	. 19
	Total %	100		Overall %	n.d.	-	0.20		-	-

		22.22.22	100				72		R	lefractive I	ndex Dete	rmination	18
	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	OII	Col Par	Col Per	RI Par	RI Per
1	none	W		27-0		- 7	0.000			7	<i>a</i>		
2													
3			9							15			
4													
5								1		- 5	-		
			_						· — —				

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 13-M-10A2-8

Lab Number 2018-07167-8

Sampled: 8/6/2018

Condition: acceptable

Analyzed By JCJ

8/8/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

An? OK # Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Laj	/ers			II.			Percents o	f Each Fiber		
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	100	gray	1	n.d.	-	-	-	10±3	
	Total %	100		Overall %	n.d.	-		-		*

	Fibere								R	efractive 1	ndex Deter	mination	18
<u></u>	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	110	Col Par	Col Per	RI Par	RI Per
1	попе	j.			1			14				-	
2					1							1	
3													
4	A				i	- 51	8					8	
5													
6						-		3					

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

5025 S. 33rd Street

Phoenix, Arizona

85040-2816

Phone: 602-276-6139

1-800-743-2687

PLM Analysis Details Job Number: 201807167 2188JH269 / 1000 N Curiel St, Eloy Sample 13-M-10A3-9 Lab Number 2018-07167-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By JCJ 8/8/2018 Apparent Smp Type Cementitious Non-fibrous Solid An7 OK Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type % Color Friability Fib 1 Flb 2 Fib 3 Fib 4 FIb 5 Flb 6 1 block 100 n.d. 100 n.d Fiber identification:

	mot								Refractive Index Determinations					
	Fibers	Color	Mrph	Iso	Piec	BI	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	none					1								
Ž						Ī								
3									i					
4				i										
5														
6			1			i								
		-							$\overline{}$				·	

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCI acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 13-M-10B1-10

Lab Number 2018-07167- 10

Sampled: 8/6/2018

Condition: acceptable

Analyzed By JCJ

An? OK

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

8/8/2016

Lay	/ers					Percents of Each Fiber									
#	Layer Type	%	Color	Friability	Flb 1	Fib 2	Fib 3	Fib 4	FIb 5	Flb 6					
1	mortar	100	gray	2	n.d.	-	-	•	-	8 -					
	Total %	100		Overall %	n.d.	-	[=	*	0.4	*					
			Fiber I	dentification:	none										

	MYD											Refractive Index Determinations					
	Fibers	Color	Mrph	Iso	Pleo	BI	Elg	Ext	OII	Col Par	Col Per	RI Par	RI Per				
1	none			i													
2		[
3							1										
4	******		1		i —		1										
5													-				
6				1													
		l	1		I		I				1						

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Phone: 602-276-6139

PLM Analysis Details 2188JH269 / 1000 N Curiel St, Eloy Job Number: 201807167 Sample 13-M-10B2-11 Lab Number 2018-07167-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By JCJ 8/8/2018 Apparent Smp Type Cementitious An? OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber % Color Friability Layer Type Flb 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 1 mortar 100 gray 2 n.d Total % 100 Overall % Fiber Identification:

	Ethana								R	efractive I			
	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1	none			ĺ	Ī					i		7	
2			-										
3													
4													
5													
6								1		i			
5													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCI acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Sample 13-M-10B3-12

Lab Number 2018-07167- 12 Sampled: 8/6/2018

Condition: acceptable

Analyzed By JCJ

An? OK

8/8/2018

Apparent Smp Type Cementitious

Non-fibrous Solid

Homogeneous Yes

Layers 1

Pos Layer? No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Lay	/ers			[Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Flb 3	Fib 4	Fib 5	Fib 6		
1	mortar	100	gray	2	n.d.		3 7 11	-	-	•		
	Total %	100		Overall %	n.d.	-	-	-	107.0	*		
			Fiber I	dentification:	none		Ĭ					

per la	50.000					.313		F	lefractive I	ndex Date	rminatior	15
Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per
1 none	3	377.20										
2	5	2			i				1			
3						1			1			
4	8	3			i				1	-		
5			-						1			<u> </u>

Sample Analytical Note

6

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: At client request, this sample was analyzed as a 'single layer', i.e., the only layer analyzed is the type of material listed on the chain of custody or other paperwork. However, this sample was found to contain the following other suspect material types, which are noted here to ensure that the client is aware of their presence and can act accordingly: texture.

Job Number:

201807167

2188JH269 / 1000 N Curiel St, Eloy

Sample 13-M-10C1-13 Lab Number 2018-07167- 13 Sampled: 8/6/2018 Condition: acceptable Analyzed By JCJ 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, polymer, Layers Percents of Each Fiber Laver Type % Color Friability Fib 2 Fib 3 Flb 4 Fib S Fib 1 Flb 6 100 off-white 1 sealant 1 <=1% Total % 100 Overall % <=1% Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Bi Oil Mrph Iso Pieo Elg Ext Col Par Col Per RI Par RI Per chrysotile asbestos W N Ν L Р 1.550 db/ly sb/o 1.561 |1.553 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 13-M-10C2-14 Lab Number 2018-07167-14 Sampled: 8/6/2018 Condition: acceptable Analyzed By JCJ 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, polymer, Layers Percents of Each Fiber # Layer Type % Color Friability Flb 1 Fib 2 Fib 3 FIb 4 Fib 5 Fib 6 sealant 100 1 <=1% gray Overall % Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Iso Pleo BI Elg Ext 011 Col Par Col Per RI Par RI Per chrysotile asbestos 1.550 db/ly sb/o 1.561 | 1.553 L, 3 4 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 13-M-10C3-15 Lab Number 2018-07167-15 Sampled: 8/6/2018 Condition: acceptable Analyzed By JCJ 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, polymer, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 sealant 100 <=1% 100 <=1% Total % Overall % Fiber Identification: chrysotile asbestos Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Col Par | Col Per | RI Par | RI Per chrysotile asbestos 1.561 |1.553 N N L 1.550 db/ly sb/o 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent,

5025 S. 33rd Street

Phoenix, Arizona

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=yarious
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, strated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may

taper

| Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
| Eig=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
| Col Par=dispersion staining colors parallel to the fiber (fiber/halo); b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon
| yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
| RI Par=refractive Index parallel to fiber; RI Perp=refractive Index perpendicular to fiber

Analyst:

Approved Accreditation Signatory

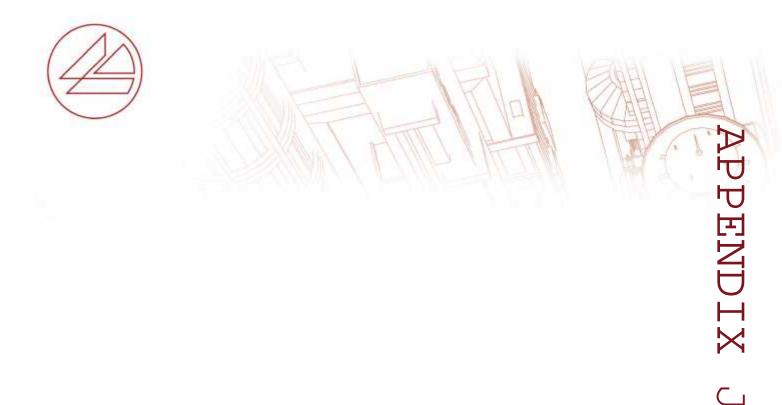
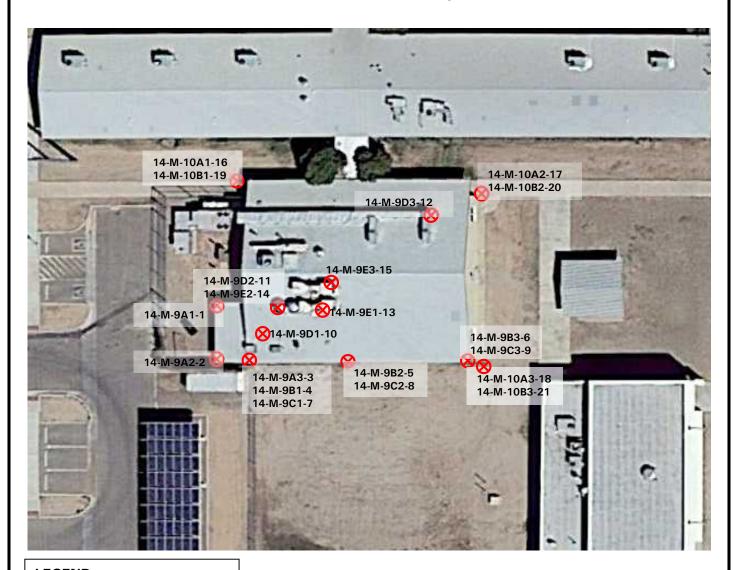


FIGURE 10 - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

BUILDING 14 (RPA Building F)



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

	Reviewed: V. Aviles	Date: 08-5-2018
N	Client: Eloy Elementary School District	Prepared By: A. Smith
	Western Tech	nnologies Inc.
	Job No. 2188JH269	Figure No. 10

TABLE 10 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona		SITE ID: Building 14 (RPA Building F)	FRIABLE/ NON FRIABLE	PROJECT NO) : 2188JH26	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
14-M-9A1-1, 9A2-2 and 9A3-3	Rolled Asphalt	Overhang	NF	Misc	312	NO
14-M-9B1-4, 9B2-5 and 9B3-6	Asphalt Shingle	Roof	NF	Misc	5,950	NO
14-M-9C1-7, 9C2-8 and 9C3-9	Felt	Roof	NF	Misc	5,950	NO
14-M-9D1-10, 9D2-11 and 9D3-12	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	NO
14-M-9E1-13, 9E2-14 and 9E3-15	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO

TABLE 10 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona		SITE ID: Building 14 (RPA Building F)	FRIABLE/ NON FRIABLE	PROJECT NO	D: 2188JH26	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
14-M-10A1-16, 10A2-17 and 10A3-18	Concrete Block (4"x18")	Exterior Walls	NF	Misc	2,480	NO
14-M-10B1-19, 10B2-20 and 10B3-21	Mortar (for concrete block)	Exterior Walls	NF	Misc	2480 area	NO

Geotechnical Environmental Inspections Materials	Western Technologies Inc. The Quality People Since 1955
wt-ua	.com
CLIENT: Eloy Eleme	entary School District
SITE ADDRESS: 100 Arizona	00 North Curiel Street, Eloy,

Inspections Materials wt-us.	The Quality F Since 1955	People	ASE	ESTOS SURV	EY SAMPLE LOG
CLIENT: Eloy Eleme		trict	PROJECT NO: 218	8JH269	Page 1 of 7.
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE: E	loy Elementar	y School -
Arizona			1312	Ra 121	
HOMOGENEOUS M	IATERIAL:		LOCATION BY FU		ACE (FS):
Rooted	Asohalt		B00	RAS OU	or Nava
SAMPLE NUMBER:			TOTAL QUANTITY	/ :	
14-M-9	14		SF: 312	LF:	
Sequential #	1- {	2- 7	3-3		NOTES
Location/FS	Overhang -				
Sample Origin	SM SE	NW NE	NW NE SWESE		
E/W Location	OFFE	OFFE	OCTW		
N/S Location	045	OFFN	OFFD		1.00
Height ^ Floor	OH	Off	Off		
Component	P1995-		->		
Friable	Yes 😡	Yes No	Yes (No		
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.		
Accessibility	None Rare O&M General	Nane Rare O&M General	None Rare O&M General		
Activity Level	<i>О</i> мн	Ф м н	(L)M H		
Disturbance Potential	L/N PD RSD	L/N PD (SD)	L/N PD (PSD)		
% ASBESTOS	ND-		-5		
TYPE ASBESTOS					
		INSPECTOR(S	S) / ACCREDITATIO	N NO.	
☐ Vicky Aviles, The Asbeste ☐ Suzette Numkena, TAI, I ☐ Jason Criss, TAI, ID No. C ☐ Matt Steinhoff, TAI ID No. G ☐ Ryan Fasci, TAI ID No. G	D No. G8456, Expiratio 67027, Expiration May lo. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmquis ☐ Ryan Cleary, T ☐ Sean Moggridg	st, TAI, ID No. G7810 AI, ID No. G8455, Ex Je, Field Science, Al	, Expiration April 6, 2019 0, Expiration November 3, 2018 xpiration April 6, 2019 171220001, Exp. December 20, 2018 0. November 8, 2018
(XX	ent and type asbesto	os are entered upon	completion of laborato		te of analysis is available on the
laborato	ry report. asbestos detected.				

©81WTI 111014

Geotechnical Environmental Inspections Materials	The Quality P Since 1955	o gies Inc. People	А	SBESTOS SURV	EY SAMPLE LOG			
CLIENT: Eloy Eleme	entary School Dist	rict	PROJECT NO: 2	2188JH269	Page <u>2</u> of <u>7</u> .			
SITE ADDRESS: 100 Arizona	0 North Curiel Str	eet, Eloy,	SAMPLED SITE: Eloy Elementary School - Blag 14					
HOMOGENEOUS N	NATERIAL: B ASPhalt	- Stayle		FUNCTIONAL SPA	ACE (FS):			
SAMPLE NUMBER:	5 141-M-	4B	SF: S950	ITY:) LF:				
Sequential #	1-4	2- 5	36		NOTES			
Location/FS	Roof-		-S)					
Sample Origin	NW NE	NW NE	NW NE SW (SE)					
E/W Location	CHF.	HOHE	Of W					
N/S Location	OFFN	Offn	Offi					
Height ^ Floor	Off-		->					
Component	£100c-		_5					
Friable	Yes (No)	Yes No	Yes (No					
Condition	Good Damaged Sig. Dam.	Damaged Sig. Dam.	Good Damaged Sig. Dam.					
Accessibility	None Rare O&M General	Rare O&M General	None Rare O&M General					
Activity Level	Д м н	О м н	Омн					
Disturbance Potential	L/N PD (PSD)	L/N PD (PSD)	L/N PD (SD)	i				
% ASBESTOS	-CN		-D					
TYPE ASBESTOS								

INSPECTOR(S) / ACCREDITATION NO.

- ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- 🗖 Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE: ///// DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

Geolechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955 s.com	o gies Inc. People	A	SBESTOS SURV	EY SAMPLE LOG	
CLIENT: Eloy Elem	entary School Dis	trict	PROJECT NO: 2	188JH269	Page 253 7.	
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,		: Eloy Elementar しく		
HOMOGENEOUS P	MATERIAL:		LOCATION BY I	LY FUNCTIONAL SPA	ACE (FS):	
SAMPLE NUMBER	• •		TOTAL QUANT	ITY:		
14 - M-	9C		SF: 5950	LF:		
Sequential #	1- 7	2- 🕏	3-9		NOTES	
Location/FS	KOOK-		>			
Sample Origin	NW NE SW SE	NW NE	NW NE SW (SE)			
E/W Location	OHE	40HE	Offw			
N/S Location	SHA	ENTN	OHN.			
Height ^ Floor	Dft -		7			
Component	f100r-		>			
Friable	Yes 🕼	Yes€No	Yes No			
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.			
Accessibility	None Rare O&M General	None Rare O&M General	Rare O&M General			
Activity Level	(Д)И Н	(□ y H	<dm h<="" td=""><td></td><td></td><td></td></dm>			
Disturbance Potential	L/N PD (SD)	L/N PD(PSD)	L/N PD (PSD)			
% ASBESTOS	10D-		-			
TYPE ASBESTOS						
		INSPECTOR(S) / ACCREDITAT	ION NO.		

- ☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE: ////

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

	5.				
Geotechnical Environmental Inspections Materials	Western Technol The Quality I Since 1955	ogies Inc. People	А	SBESTOS SURV	EY SAMPLE LOG
CLIENT: Eloy Elem		trict	PROJECT NO: 2	188JH269	Page 1 of 7.
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITE	: Eloy Elementar	y School -
HOMOGENEOUS N	//ATERIAL:			FUNCTIONAL SPA	ACE (FS):
Spalan	1		lan	L	
SAMPLE NUMBER			TOTAL QUANT	ITY:	
. Ac	1-M-9D		SF: \O	LF:	
Sequential #	1- 19	2-	3-12	Plan	NOTES
Location/FS	hoof		-		
Sample Origin	NW NE SW SE	NW NE	NW NE SW SE	Roof	& NOTES Revellantion
E/W Location	10'5	201	10'W		
N/S Location	10'N	15'N	20'5		
Height ^ Floor	084		7		
Component	A1001-		- >		
Friable	Yes No	Yes (No	Yes		
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.		
	None	None	None		
Accessibility	Rare O&M General	Rare O&M General	Rare O&M Genera		
Activity Level	DM H	UM H	L)M H		
Disturbance Potential	L/N PD(PSD)	L/N PD (PSD)	L/N PD PSD		
% ASBESTOS	ND-)		
TYPE ASRESTOS					

INSPECTOR(S) / ACCREDITATION NO.

	□ Vicky Aviles	The Asbestos Institute	(TAI), G7031.	Expiration May	5.2018
--	----------------	------------------------	---------------	----------------	---------------

- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- 🚨 Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

Geotechnical Environmental Inspections Materials wt-us	The Quality F Since 1955	ogies Inc. People	AS	SBESTOS SURVE	EY SAMPLE LOG
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2	188JH269	Page <u>5</u> of <u>7</u> .
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary	School -
Arizona			Bldg		
HOMOGENEOUS N	IATERIAL:		LOCATION BY F	UNCTIONAL SPA	CE (FS):
Slala	ut		190K	,	
SAMPLE NUMBER:	1 0		TOTAL QUÂNTI	TY:	
)4-1V	69E		SF: 5	LF:	
Sequential #	1-13	2- 14	3-15		NOTES
Location/FS	R00-		-5	1101	
Sample Origin	NW NE	NW NE	NW NE	WHE	on HUAC
E/W Location	25 %	15/1	30'A2	201/2	
N/S Location	20'N	25'N	30'NV		on HUAC
Height ^ Floor	Oft-)		
Component	£1001-		>		
Friable	Yes 🐚	Yes 🐠	Yes (40)		
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.		
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M Genera		
Activity Level	Фи н	O M H	<u>Г</u> м н		
Disturbance Potential	L/N PD (PSD)	L/N PD (SD)	L/N PD (PSD)		
% ASBESTOS	70-		9		
TYPE ASBESTOS					
		INSPECTOR(S	S) / ACCREDITATI	ON NO.	
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. (☐ Matt Steinhoff, TAI ID No. (ID No. G8456, Expiratio G7027, Expiration May No. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmq ☐ Ryan Cleary ☐ Sean Moggri	uist, TAI, ID No. G7810 , TAI, ID No. G8455, Ex	71220001, Exp. December 20, 2018
SIGNATURE:	/\ / \ / \ \ / \ \ \ \ \ \ \ \ \ \ \ \	W		DATE: 8/6/2	
laborato	ent and type asbestory report. asbestos detected.	s are entered upon	completion of labora	tory analysis. The da	te of analysis is available on the

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955		A	SBESTOS SURV	EY SAMPLE LOG	
CLIENT: Eloy Eleme	ementary School District P		PROJECT NO: 2188JH269 Page 6 of 7		Page O of .
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School - Bldg		
HOMOGENEOUS N	ATERIAL:		LOCATION BY FUNCTIONAL SPACE (FS):		
Concrete			TOTAL QUANT	or walls	
SAMPLE NUMBER:	;		TOTAL QUANT	ITY:	
K1-M-18)A		SF: 2486	LF:	
Sequential #	1- 10	2-	3-13		NOTES
Location/FS	Extens walls -		-	O. J.	/ // L = 6
Sample Origin	SW SE	NW NE SW SE	NW NE SW (SE)	BOCK	6"48"
E/W Location	OHE	al C O	OHW	554	
N/S Location	345	0645	DEFIN	850	
Height ^ Floor	467	54	44		
Component	Wall-		9		
Friable	Yes No	Yes (No	Yes No		
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.		
Accessibility	None Rare O&M General	None Rare O&M Genera	None Rare O&M General		
Activity Level	€ M H	©M H	©M H		
Disturbance Potential	L/N PD (ESD)	L/N PD (ESD)	L/N PD (PSD)		
% ASBESTOS	ND-		->		
TYPE ASBESTOS					
	*	INCRECTOR	S) / ACCREDITAT	ION NO	

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May	5, 2018
---	---------

- ☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- 🔏 Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

Geotechnical Environmental Inspections Materials	Western Technologies Inc. The Quality People Since 1955
wt-us	s.com
CLIENT: Eloy Elem	entary School District
SITE ADDRESS, 10	00 North Curiel Street, Eloy,

Inspections Materials wt-us	The Quality I Since 1955	People People	AS	BESTOS SURV	EY SAMPLE LOG
CLIENT: Eloy Eleme		trict	PROJECT NO: 21	.88JH269	Page of
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementar	y School -
Arizona			Bldg	4	
HOMOGENEOUS M	ATERIAL:		LOCATION BY F	JNCTIONAL SPA	ACE (FS):
Morter			Extens	or walls	
SAMPLE NUMBER:			TOTAL QUANTI	TY:	·
14-M-10	B		SF: 2480 91	€A LF:	
Sequential #	1- 9	2-20	3-21		NOTES
Location/FS	Exterior walk		>		
Sample Origin	SW SE	NW (NE) SW SE	NW NE SW (SE)		
E/W Location	OHE	Offu	OHW		
N/S Location	045	OFFS	OAN		
Height ^ Floor	461	54	40		
Component	wall-		→		
Friable	Yes (No	Yes No	Yes No		
Condition	Good Damaged	Goed	Goed Damaged		
	Sig. Dam.	Sig. Dam.	Sig. Dam.		
Accessibility	None Rare O&M General	None Rare Q&M General	None Rare O&M General		
Activity Level	<u> О</u> м н	<u>Л</u> м н	€ M <h< td=""><td></td><td></td></h<>		
Disturbance Potential	L/N PD (SD)	L/N PD PSD	L/N PD PSD		
% ASBESTOS	NO		9		
TYPE ASBESTOS					
		INSPECTOR(S	s) / ACCREDITATIO	ON NO.	
☐ Vicky Aviles, The Asbest ☐ Suzette Numkena, TAI, ☐ Jason Criss, TAI, ID No. 0 ☐ Matt Steinhoff, TAI ID No. 0 ☐ Ryan Fasci, TAI ID No. 0	ID No. G8456, Expiration 37027, Expiration May 9 Io. G7675, Expiration O	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmqu ☐ Ryan Cleary, ☐ Sean Moggri	zist, TAI, ID No. G7810 TAI, ID No. G8455, Ex	Expiration April 6, 2019 D, Expiration November 3, 2018 Opiration April 6, 2019 171220001, Exp. December 20, 2018 D. November 8, 2018
SIGNATURE:	ly Su	7		DATE: 8/6/2	
laborato	ent and type asbesto ry report. asbestos detected.	s are entered upon	completion of laborat	ory analysis. The da	te of analysis is available on the

081WTI 111014

		JL	Ш
Western	Technologies	Inc.	The Quality People
(

www.wf-us.com

9	
<u>e</u> .	9
<u> </u>	People 55
2	. Pe
2	<u> </u>
達	Qual
ं उ	20.22
10 E	he
	—

Flagstaff • (928) 774-8700 • f774-6469 • 2400 East Huntington Drive • AZ 86004	X Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040	2987 443_5010 a f 442_7302 a 1040 Sandrotto Deivo Suito C a 47 8630
(928)774-870	(602) 437-3737	CODEN AND FOLL
Flagstaff •	X Phoenix •	Prescraft .

28) 774-8700 • 17/4-6469	agstait • (928) 774-8700 • 1 / /4-6469 • 2400 East Huntington Drive • AZ 86004
32) 437-3737 • f 470-1341 •	ioenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040
28) 443-5010 • f443-7392 •	escott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305
0) 748-2262 • f 748-0435 •	icson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713
	28) 7.4-6459 02) 437-3737 • f 470-1341 • 28) 443-5010 • f 443-7392 • 0) 748-2262 • f 748-0435 • ;

] Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040
Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305
Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713
] Durango • (970) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303
] Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118
] Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113
] Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401
] Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

$\overline{}$
Ų
\vdash
20
U)
S
Ö
_
L
6
\mathbf{O}
2
7
Q
نس
云
\boldsymbol{O}

☐ LEAD
✓ ASBESTOS

10
Š
0
⊢
S
ES
<u> </u>
S
⋖
_
メ

	A.D. 0-8
PROJECT MANAGER	いららん

TEST METHOD

SAMPLE TYPE

K		Analys	1	ı
Awles		lave	COMMENTS	Usahall
PROJECT MANAGER	EMAIL ADDRESS	Smok	•	pollar
	A3ñA \	BWU10	۸۵	

TIOS RETAW ЯΙΑ

> **BAW**S MIPE впгк

> > SAMPLE LOCATION Bus along

NO. OF CONTAINERS

SAMPLER - PLEASE PRINT NAME

218854269

CIM LOW WO.

PROJECT NAM

A SNITE

TIME

SAMPLE IDENTIFICATION

31/40/ DATE

> 942-2 943-3

902-5

14-11-401-7

4-106-M-4

OCC A CLINE

PROJECT ADDRESS

asoh	(1)	4	shi	,
rolled			+Imps 4	1

Shi	-	د		
1 sphalt	4		4/28	-

>	fe/t	_	
			Ļ

scalant (black)	-
-----------------	---

9-1019-M-4

902-9 8-276

903-12

1-205

4-M-9E1-13

41-236

1-1-4-W-K

	3	1
•	tas	7
	7	
	35	

,	•	RECEIVED BY	REQUESTED TURNAROU
7	~	TIME	STED 1
		DATE	REQUE:
	7		_ 0

- SIGNATURE

1	Φ
	ם
	Sa
	ield
	1
	Pink
	File
	gop
	ent
ľ	artn
	Dep
Г	1
	Yellow
	tory
ľ	ooral
	Ľaf
183	Testing
	1
0	hite
	3

DATE

36k 15:32

RELINGUISHED

OF 2 PAGES PAGE

_ HOURS

DAYS

IND TIME

352 - 1993Review of Analysis Request (Initials) 24

Western Technologies Inc.	The Q <u>uality</u> People Since 1955
0	

Flagstaff • (928) 774-8700 • (774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Tucson • (520) 748-2262 • f748-0435 • 3480 South Dodge Boulevard • AZ 85713 Durango • (970) 375-9033 • f375-9034 • 278 Sawyer Drive, No. 2 • CO 81303

Albuquerque • (505) 823-4488 • (821-2963 • 8305 Washington Place, N.E. • NM 87113 Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115 Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401 Las Vegas • (702) 798-8050 • (798-7664 • 6633 West Post Road • NV 89118

www.wf-us.com

\equiv
\mathbf{O}
1
4.0
S
\mathbf{c}
ш
<
_
$\overline{\mathbf{Q}}$

☐ MICROBIAL
ENE
YGIE
Ξ
<u> </u>
TRI/
NS
NDO
_

S
0
—
S
Щ
S
93
4
N.

☐ LEAD	•
X ASBESTOS	PROJECT MANAGER

THOUSE MANAGEM	Vicky AWIRS	EMAIL ADDRESS	Single layer Analysis	COMMENTS	majour	•	٤												DATE TIME RECEIVED BY - SIGNATURE
		YBEA	/ awnt																PA
100H			W	d	*	-	>												
TEST METHOD																			
TES			,																- SIGNATURE
ш								 											
E TYPI	-		RETA		-				-	-		-	_		_	 	_	-	нео ву
SAMPLE TYPE			8AV 7	٧S															RELINGUISHED BY
S			341	lΜ															2
	LEES	IIATUC). OF C		×	1	7		-	-			_					\vdash	
				Γ		_									0				
PROJECT ADDRESS	1600 N Caill St, ELOV	PURCHASE ORDER NO.	SAMPLER - PLEASE PRINT NAME	TIME	Building 14		*												DATE TIME RECEIVED BY - SIGNATURE
				DATE	1/40/		Æ												:
HUJECT NAME	Limbed NESHAP	2128 TH 2109	AMPLER - SIGNATURE	SAMPLE IDENTIFICATION	1/4/00 C1-1001-W-h	02-2901	12-8901												ELINQUISHED BY - SIGNATURE

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

HOURS

REQUESTED TURNAROUND TIME

DAYS

352 - 1993 Andrew of Analysis Caguara (Taraka) BLK



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807172

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX, AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples:

PLM

8/8/2018

Rec: 8/6/2018 Method: EPA 600/R-93/116

The "New" Method; see below

Report Date:

Client Job: 2188JH269 / 1000 N Curiel St, Eloy

Date Analyzed:

8/8/2018

PO Number: Routing Number: -

21

Method and Analysis Information: Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive Index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached,

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) In order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interiab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

PLM Analysis Summary:

PLM Analysis Summary:		Job Num	ber: 201807172	2188JH269 / 1000 N Curiel St, Eloy			
Sample Number		Lab Number	Apparent Sample Type *	Positive Layer Yes or No			
Layer Color	Apparent Layer Ty	pe * Asbe	stos Results				
Sample # <u>14-M-9A1-1</u>		2018-07172- 1	Roofing	Positive Layer? No			
Layer # 1 black	roofing roll/shingle		estos detected	75 - 121 1 70 - 24 -			
Sample # 14-M-9A2-2		2018-07172- 2	Roofing	Positive Layer? No			
Layer #1 black	roofing roll/shingle		estos detected				
Sample # <u>14-M-9A3-3</u>		2018-07172- 3	Roofing	Positive Layer? No			
Layer # 1 black	roofing roll/shingle		estos detected	5			
Sample # 14-M-9B1-4		2018-07172-4	Roofing	Positive Layer? No			
Layer #1 black	roofing roll/shingle		estos detected	Paristra Laura D. Ma			
Sample # <u>14-M-982-5</u>		2018-07172-5	Roofing	Positive Layer? No			
Layer # 1 black	roofing roll/shingle		estos detected	Burth to Bar			
Sample # <u>14-M-983-6</u>		2018-07172- 6	Roofing	Positive Layer? No			
Layer #1 black	roofing roll/shingle		estos detected				
Sample # <u>14-M-9C1-7</u>		2018-07172- 7	Roofing	Positive Layer? No			
Layer # 1 black	feit		estos detected				
Sample # <u>14-M-9C2-8</u>		2018-07172- 8	Roofing	Positive Layer? No			
Layer # 1 black	felt		estos detected				
iample # <u>14-M-9C3-9</u>		2018-07172- 9	Roofing	Positive Layer? No			
Layer # 1 black	felt		estos detected				
Sample # <u>14-M-9D1-10</u>		2018-07172- 10	Adhesive/caulk	Positive Layer? No			
Layer #1 black	sealant	no asb	estos detected				
Sample # <u>14-M-9D2-11</u>		2018-07172- 11	Adhesive/caulk	Positive Layer? No			
Layer # 1 black	sealant	no asb	estos detected				
Sample # 14-M-9D3-12		2018-07172- 12	Adhesive/caulk	Positive Layer? No			
Layer # 1 black	sealant	no asb	estos detected	•			
Sample # 14-M-9E1-13		2018-07172- 13	Adhesive/caulk	Positive Laver? No			
Layer #1 off-white	sealant	no asb	estos detected				
ample # 14-M-9E2-14		2018-07172- 14	Adhesive/caulk	Positive Layer? No			
Layer #1 off-white	sealant	no asb	estos detected				
iample # 14-M-9E3-15		2018-07172- 15	Adhesive/caulk	Positive Layer? No			
Layer # 1 off-white	sealant	no asb	estos detected				
Sample # 14-M-10A1-16		2018-07172- 16	Miscellaneous	Positive Layer? No			
Layer #1 gray	block		estos detected	, , , , , , , , , , , , , , , , , , , ,			
Sample # 14-M-10A2-17		2018-07172- 17	Misceilaneous	Positive Layer? No			
Layer #1 gray	block		estos detected	rositive Edyer: 110			
ample # 14-M-10A3-18		2018-07172- 18	Miscellaneous	Positive Layer? No			
Layer #1 gray	black		estos detected	i dontre majori 110			
Sample # 14-M-10B1-19		2018-07172- 19	Miscellaneous	Positive Laver? No			
Layer # 1 gray	mortar		estos detected	rositive Layer? NO			
Sample # 14-M-10B2-20	multar	2018-07172- 20	Miscellaneous	Bacitive Lauer 3 No.			
	mortar		estos detected	Positive Layer? No			
	multal			Doubling Laures #1-			
Sample # <u>14-M-10B3-21</u>		2018-07172- 21	Miscellaneous	Positive Layer? No			

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

no asbestos detected

5025 S. 33rd Street

Layer # 1

gray

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-9A1-1 Lab Number 2018-07172-1 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By GV An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): filler, bitumen, rock Lavers Percents of Each Fiber Layer Type Color Friability FIb 3 Fib 4 FIb 6 roofing roll/shingle 100 black 1 2-5% Total % 100 Overalt % 2-5% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Piec Bi Elg Ext Col Par Col Per RI Par RI Per Mrph Iso synthetic fiber (extruded) W E N N P 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9A2-2 Lab Number 2018-07172- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Color **Layer Type** Friability FIb 1 FIb 2 FIb 3 FIb S Fib 6 roofing roll/shingle 100 black 2-5% 100 Total % Overali % 2-5% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Iso Mrph Pleo Elg Ext Col Par Col Per RI Par RI Per synthetic fiber (extruded) W N N н P 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9A3-3 Lab Number 2018-07172-3 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type** Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber # Color Friability Layer Type Flb 1 Fib 2 FIb 3 Fib 4 FIb 5 FIb 6 roofing roll/shingle 100 Total % 100 Overall % 2-5% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Mrph Iso Bi Eig Ext Col Par Col Per RI Par RI Per synthetic fiber (extruded) W Р N N н 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-9B1-4 Lab Number 2018-07172-4 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV B/B/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solid Homogeneous Yes # Layers 1 Pos Laver? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Friability **Layer Type** Color FIb 1 Fib 2 Fib 3 Fib 4 Flb 5 FIb 6 roofing roll/shingle 100 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations **Fibers** Color Mrph Iso Pleo Elg Ext Oil Col Par Col Per RI Par RI Per glass fiber a Ð 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-982-5 Lab Number 2018-07172-5 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (In approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber Color Friability **Layer Type** FIb 1 FIb 2 FIb 3 Fib 4 Fib 5 Flb 6 roofing roll/shingle 100 black 5-10% Total % 100 Overall % 5-10% glass fiber Fiber Identification: **Refractive Index Determinations** Fibers Iso Pleo Col Par Col Per RI Par RI Per glass fiber CL D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-983-6 Lab Number 2018-07172- 6 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, rock Layers Percents of Each Fiber # Layer Type Color **Eciability** Fib 1 Fib 2 FIb 3 Fib 4 Flb 5 Flb 6 roofing roll/shingle 100 black 1 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par | Col Per | RI Par | RI Per glass fiber ÇL. D 2 3 4 S 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

Job Number:

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-9C1-7 Lab Number 2018-07172-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An7 OK Apparent Smp Type Roofing Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Layer Type % Color Friability FIb 2 Fib 3 Fib 5 Fib 6 felt 100 black 80-90% 2 100 Total % Overall % 80-90% cellulose fiber Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Ela Ext OII Col Par | Col Per | RI Par | RI Per cellulose fiber W N N U Н 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9C2-8 Lab Number 2018-07172-8 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber **Layer Type** Color Friabliity Fib 1 Fib 2 Fib 3 Fib 5 Fib 6 100 black 2 80-90% 100 Total % Overall % 80-90% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per cellulose fiber W F N N U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9C3-9 Lab Number 2018-07172-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, bitumen, Layers Percents of Each Fiber Laver Type Color Friability Fib 2 Fib 1 FIb 3 Flb 4 FIb S FIb 6 100 2 80-90% 100 Total % 80-90% Overall % Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Pleo Bi Ext Col Par Col Per RI Par RI Per Mrph Iso Elg w cellulose fiber ш N N н 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-9D1-10 Lab Number 2018-07172- 10 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By GV An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 FIb 2 Fib 4 Fib 3 FIb 5 Fib 6 1 sealant 100 black >1-2% 100 Overall % >1-2% Fiber Identification: celulose fiber Refractive Index Determinations Fibers Color Pleo Oil Col Par Col Per RI Par RI Per Mrph Iso BI Elg Ext cellulose fiber W N N Н Ü 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9D2-11 Lab Number 2018-07172-11 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An7 OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 5 Flb 6 FIb 4 100 sealant black >1-2% Total % 100_ Overall % >1-2% Fiber Identification: celulose fiber Refractive Index Determinations Fibers Color Pleo Ext Mroh Elg Col Par Col Per RI Par RI Per Iso ы 1 cellulose fiber W N N н U 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent, Sample 14-M-9D3-12 Lab Number 2018-07172- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Fib 1 Fib 4 FIb 5 FIb 6 sealant 100 black >1-2% 1 100 Total % Overall % >1-2% Fiber identification: celulose fiber Refractive Index Determinations **Fibers** Color Elg Col Par | Col Per | RI Par | RI Per Pieo Bi Ext Mrph Iso cellulose fiber W N N н u 2 3 4 S 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

Job Number:

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-9E1-13 Lab Number 2018-07172- 13 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 Apparent Smp Type Adhesive/caulk An7 OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Flb 2 FIb 3 Fib 4 Fib 5 Fib 6 sealant 100 off-white n.d. Total % 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Mrph Pleo Iso Bi Elg Ext OH Col Par | Col Per | RI Par | RI Per none 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9E2-14 Lab Number 2018-07172- 14 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 5 FIb 6 sealant 100 off-white n.d. Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Col Par | Col Per | RI Par | RI Per Bi Ext none 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample 14-M-9E3-15 Lab Number 2018-07172- 15 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An7 OK Apparent Smp Type Adhesive/caulk Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, binder, Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib S Fib 4 Fib 6 sealant 100 off-white n.d. 100 Total % Overall % Fiber Identification: Refractive Index Determinations **Fibers** Color Mrph Iso Plea Bi Ext Col Par Col Per RI Par RI Per Elg none 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

Job Number:

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-10A1-16 Lab Number 2018-07172-16 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 **Analyzed By GV** An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Flb 2 Fib 3 Fib 4 FIb 5 Fib 6 block 1 100 gray n.d 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg Ext Oil Col Par Col Per RI Par RI Per Bi none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 14-M-10A2-17 Lab Number 2018-07172- 17 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 2 FIb 3 Fib S FIb 6 FIb 4 block 100 gray n.d. Total % 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Mrph Iso Pleo Elg Color Bi Ext Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 14-M-10A3-18 Lab Number 2018-07172- 18 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 2 Flb 6 **Fib 3** Fib 4 Fib 5 block 100 n.d. gray Total % 100 Overall % Fiber Identification: **Refractive Index Determinations** Fibers Elg Color Mrph Iso Plea Ext Col Par | Col Per | RI Par | RI Per Bi попе 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

Job Number: 2018

201807172

2188JH269 / 1000 N Curiel St, Eloy

Sample 14-M-10B1-19 Lab Number 2018-07172- 19 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 Apparent Smp Type Miscellaneous An? OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 FIb 5 Fib 6 mortar 100 n.d. gray Total % 100 Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Elg Col Par Col Per RI Par RI Per Color Mrph Pleo Ext Oll Iso Bi поле 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 14-M-10B2-20 Lab Number 2018-07172- 20 Sampled: 8/6/2018 Condition: acceptable Analyzed By GV 8/8/2018 **Apparent Smp Type** Miscellaneous An? OK Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 6 Fib 5 100 mortar 2 n d gray 100 Total % Overall % n.d. Fiber Identification: Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext Col Par Col Per RI Par RI Per none 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Sample 14-M-10B3-21 Lab Number 2018-07172- 21 Sampled: 8/6/2018 Condition: acceptable Non-fibrous Solid Analyzed By GV 8/8/2018 An? OK Apparent Smp Type Miscellaneous Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): powder, rock, Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib S Fib 6 mortar 100 2 gray n.d n.d. 100 Overall % Total % Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pieo Bi Elg Ext Col Par Col Per RI Par RI Per none 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Fr=Frlability: 1=very non-frlable; 2= non-frlable; 3=frlable; 4=hlghly frlable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Flber Morphology: A=fine flbers/bundles, white, sinewy, flexible; B=fine flbers/bundles, w-br, straight, broomed ends; C=fine flbers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers, Co or dyed, striated; F=coarse flbers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=Isotropism = may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow;
vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Galina B. Volkova

Analyst: GALINA B. VOLKOVA

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Larry S. Pieros, Approved Accreditation Signatory

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558



FIGURE 11 - GENERAL SAMPLE COLLECTION LOCATION DIAGRAM

Curiel Primary School 1000 North Curiel Street Eloy, Arizona

Gymnasium



LEGEND



General Sample Collection Location & Identification Number

NOTE:

Please See Asbestos Survey Sample Log for height and location for wall samples of concrete block and mortar. Sample collection locations are generally indicated in this figure showing the side of the structure the wall sample was collected.

DIAGRAM NOT TO SCALE

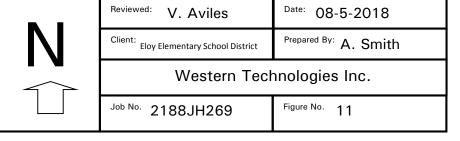


TABLE 11 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

PROJECT: NESHAP Asbestos Survey Curiel Primary School 1000 North Curiel Street Eloy, Arizona		SITE ID: Gymnasium (RPA Building G)	FRIABLE/ NON FRIABLE	PROJECT NO): 2188JH26	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
G-M-9A1-1, 9A2-2 and 9A3-3	Sealant (Black, on roof penetrations)	Roof	NF	Misc	10	NO
G-M-9B1-4, 9B2-5 and 9B3-6	Sealant (White, on HVAC)	Roof	NF	Misc	15	NO
G-M-9C1-7, 9C2-8 and 9C3-9	Asphalt Roof	Roof	NF	Misc	4,320	YES
G-M-9D1-10, 9D2-11 and 9D3-12	Hot Mop	Roof	NF	Misc	4,320	NO
G-M-9E1-13, 9E2-14 and 9E3-15	Felt	Roof	NF	Misc	4,320	NO

TABLE 11 SUMMARY OF HOMOGENEOUS MATERIALS BY FUNCTIONAL SPACE ELOY SCHOOL DISTRICT

		SITE ID: Gymnasium (RPA Building G)	FRIABLE/ NON FRIABLE	PROJECT NO	D: 2188JH26	59
HOMOGENEOUS MATERIAL NUMBER	MATERIAL DESCRIPTION	FUNCTIONAL SPACE	F/NF	MATERIAL TYPE	QTY SQ FT	ACBM
G-M-9F1-16, 9F2-17 and 9F3-18	Insulation	Roof	NF	Misc	4,320	NO
G-M-10A1-19, 10A2-20 and 10A3-21	Concrete Block (4"x18")	Exterior Walls	NF	Misc	4,290	NO
G-M-10B1-22, 10B2-23 and 10B3-24	Mortar (for concrete block)	Exterior Walls	NF	Misc	4290 area	NO

Geotechnical Environmental Inspections Materials	The Quality I Since 1955	ogies Inc. People	Δ	SBESTOS SUR	/EY SAMPLE LOG	
	CLIENT: Eloy Elementary School District SITE ADDRESS: 1000 North Curiel Street, Eloy, Arizona			PROJECT NO: 2188JH269 Page of		
SITE ADDRESS: 10 Arizona				SAMPLED SITE: Eloy Elementary School -		
HOMOGENEOUS	MATERIAL:		LOCATION BY	FUNCTIONAL SP	ACE (FS):	
SPU	ant		Do	A		
SAMPLE NUMBE			TOTAL QUANT	ITY:	W10	
G-M-	?A		SF: 10	LF:		
Sequential #	1-	2-7	3- 3		NOTES	
Location/FS	lower poof -		7	Blace	V	
Sample Origin	NW (NE) SW SE	NW NE SW SE	NW NE SW SE	Lary.	4	
E/W Location	4Ctn2	20AF	SAW			
N/S Location	2045	2895	1275			
Height ^ Floor	81-		<u> </u>	1		
Component	floor	-	5			
Friable	Yes No	Yes No	Yes No	-		
	Good	Good	Good			
Condition	Damaged	Damaged	Damaged			
277.855	Sig. Dam.	Sig. Dam.	Sig. Dam.			
	None	None	None			
Accessibility	Rare O&M	Rare O&M	Rare O&M			
	General	General	General			
Activity Level	<u>Г</u> м н	Дм н	Ом н			
Disturbance Potential	L/N PD PSD	L/N PET PSB	L/N PD. PSD			
% ASBESTOS	ND-					

Vicky Aviles,	The Asbes	tos Insti	tute (TAI),	G7031,	Expiration	May 5,	2018
Suzotto Nun	alama Tat	ID No. /	TOMES EL		A	10	

- ☐ Suzette Numkena, TAI, iD No. G8456, Expiration April 6, 2019
- $\hfill \Box$ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

TYPE ASBESTOS

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental		Western Technologies Inc.
Inspections Materials	4	The Quality People Since 1955

Environmental Inspections Materials wt-us.	The Quality F Since 1955	ogies Inc. People	AS	ASBESTOS SURVEY SAMPLE LOG			
CLIENT: Eloy Eleme	ntary School Dis	trict	PROJECT NO: 2	20			
					Page <u>2</u> of <u>8</u> .		
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementary School -			
Arizona		- W 1:					
HOMOGENEOUS M	IATERIAL:		LOCATION BY F	UNCTIONAL SPA	ACE (FS):		
Ceula	nt			Roof			
SAMPLE NUMBER:			TOTAL QUANTI	TY:			
6-M-91	3		sf: 15	LF:			
Sequential #	1-4	2- 5	3- 1		NOTES		
Location/FS	lover Roof-			600	le		
Sample Origin	NW NE SW SE	NW (NE) SW SE	NW NE SW SE	70 10	Je on HVAC		
E/W Location	3f4w	SAW	2f1 W		n HVAC		
N/S Location	22ffs	2285	35th				
Height ^ Floor	34	58	34+m				
Component	HIAC-	_	7				
Friable	Yes No	Yes No	Yes No				
	6000	Good	Good				
Condition	Damaged Sig. Dam.	Damaged Sig. Dam.	Damaged Sig. Dam.				
	None	None	None				
Accessibility	Rare	Rare	Rare				
Accessionity	O&M	M&0	0&M				
Activity Level	(L) M H	General	General L M H				
Disturbance		<u>М</u> М Н					
Potential	L/N PD PSD	L/N PD (PSD)	L/N PD (PSD)				
% ASBESTOS	ND	<u> </u>					
TYPE ASBESTOS							
		INSPECTOR(S) / ACCREDITATI	ON NO.			
Vicky Aviles, The AsbestSuzette Numkena, TAI, I	, ,-		1		Expiration April 6, 2019		
☐ Jason Criss, TAI, ID No. 0			·	uist, 1AI, 1D No. G7810 , TAI, 1D No. G8455, Ex), Expiration November 3, 2018 spiration April 6, 2019		
☐ Matt Steinhoff, TAI ID N	lo. G7675, Expiration O	ctober 6, 2018	1 '	•	.71220001, Exp. December 20, 2018		
Ryan Fasci, TAI ID No. G	8292, Expiration March	7, 2019	☐ Alex Smith,	AI, ID No. G7791, Exp	. November 8, 2018		
SIGNATURE:	Ally	Atha		DATE: 8/6/2	·		
	ent and type asbesto ry report.	s are entered upon	completion of labora	tory analysis. The da	te of analysis is available on the		
	asbestos detected.						

	147 - 4
Geotechnical Environmental	Western Technologies Inc.
Inspections	The Quality People
Materials	Since 1955
wt-us.	com
CLIENT: Eloy Eleme	ntary School District
SITE ADDRESS: 1000	North Curiel Street, Eloy,
Arizona	, ,,
1	

Inspections Materials	The Quality I		ASBESTOS SURVEY SAMPLE LOG			
wt-us.						
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2188JH269 Page 3 of 8.			
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	loy Elementar	y School -	
Arizona					·	
				Gym		
HOMOGENEOUS M	IATERIAL:	0	LOCATION BY FU	NCTIONAL SPA	ACE (FS):	
Asoha	14 K00	+		400f		
SAMPLE NUMBER:			TOTAL QUANTIT	γ:		
G-M-91	_		sf: 4320	LF:	<u>.</u>	
Sequential #	1-7	2- 8	3- 9		NOTES	
Location/FS	Over-los-		->			
Sample Origin	NW NE	NW NE	NW NE	9		
E/M/Leastion	SW SE	SW SE	SW) SE			
E/W Location	CATE	(9+4E	6HE			
N/S Location	(ats	2045	244n			
Height ^ Floor	OH-		-			
Component	£100c~					
Friable	Yes (No)	Yes No	Yes No			
	600	600d	6 000			
Condition	Damaged	Damaged	Damaged			
	Sig. Dam.	Sig. Dam.	Sig. Dam.			
	None)	None	None			
Accessibility	Rare O&M	Rare O&M	Rare O&M			
	General	General	General			
Activity Level	Ф мн	О м н	Q м н			
Disturbance Potential	L/N PD (SD)	L/N PD PSD	L/N PD RSD		3	
% ASBESTOS	ND-		- 5			
TYPE ASBESTOS						
		INSPECTOR(S) / ACCREDITATIO	N NO.		
☐ Vicky Aviles, The Asbesto			1		Expiration April 6, 2019	
☐ Suzette Numkena, TAI, I), Expiration November 3, 2018	
Jason Criss, TAI, ID No. 6Matt Steinhoff, TAI ID N		•		•	piration April 6, 2019 .71220001, Exp. December 20, 2018	
Ryan Fasci, TAI ID No. G			I	I, ID No. G7791, Exp.		
SIGNATURE:	All	Y ALX	\triangle	DATE: 8/6/2	2018	
Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.						

	ern hnologies Inc. uality People
--	--

Inspections Materials wt-us	The Quality & Since 1955	People	ASBESTOS SURVEY SAMPLE LOG		
CLIENT: Eloy Eleme	entary School Dis	trict	PROJECT NO: 2188JH269 Page 4 of 8.		
SITE ADDRESS: 100	0 North Curiel St	reet, Eloy,	SAMPLED SITE:	Eloy Elementar	y School -
Arizona			Gym		
HOMOGENEOUS N	IATERIAL:		LOCATION BY FU	INCTIONAL SPA	ACE (FS):
Hot Mo		_	has	X	
SAMPLE NUMBER:	\		TOTAL QUANTIT	Υ:	
(g-M-	9D		sf: 4320	LF:	
Sequential #	1-	2-	3- 12		NOTES
Location/FS	LOHER ROOF-				
Sample Origin	(NW) NE SW SE	NW NE SW SE	NW NE		
E/W Location	CofiE	OLE SW SE	(SW) SE		
N/S Location	CCIS	nation	LOTN		
Height ^ Floor	017	60113	2011		4
Component	floor		-9		
Friable	Yes No	Yes (No.)	Yes 😘		
Condition	Good Damaged Sig. Dam.	Geod Damaged Sig. Dam.	Cood Damaged Sig. Dam.		
Accessibility	Norle Rare O&M General	None Rare O&M General	None Rare O&M General		
Activity Level	₩ин	<i>О</i> м н	Омн		
Disturbance Potential	L/N PD PSD	L/N PD (PSD)	L/N PD esp		1
% ASBESTOS	M-		9		
TYPE ASBESTOS					
		INSPECTOR(S	s) / ACCREDITATIO	N NO.	
□ Vicky Aviles, The Asbest □ Suzette Numkena, TAI, I □ Jason Criss, TAI, ID No. C □ Matt Steinhoff, TAI ID No. C	D No. G8456, Expiration 57027, Expiration May 5 Io. G7675, Expiration Oc	n April 6, 2019 5, 2018 ctober 6, 2018	☐ John Holmqu☐ Ryan Cleary,☐ Sean Moggrid	ist, TAI, ID No. G7810 TAI, ID No. G8455, Ex	Expiration April 6, 2019), Expiration November 3, 2018 piration April 6, 2019 71220001, Exp. December 20, 2018 . November 8, 2018
SIGNATURE:	Illy	Septa		DATE: 8/6/2	2018
	Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.				

Geotechnical Environmental Inspections Materials Western Technologies Inc. The Quality People Since 1955			A	ASBESTOS SURV	EY SAMPLE LOG		
CLIENT: Eloy Elem		trict	PROJECT NO: 2188JH269 Page 5 of 8				
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -				
HOMOGENEOUS !	MATERIAL:		h	FUNCTIONAL SPA	ACE (FS):		
SAMPLE NUMBER G-M-			TOTAL QUANT SF: 4320	TTY:			
Sequential #	1-13	2- 4	3-15		NOTES	13	
Location/FS	lower Roof		> >]			
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE				
E/W Location	GHE	GEFE	GAE				
N/S Location	Coffs	28 AS	481				
Height ^ Floor	0f+-						
Component	£1801 -		7				
Friable	Yes No	Yes No	Yes No				
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.				
Accessibility	None Rare O&M General	None Rare O&M General	None Rare O&M General				
Activity Level	L)M H	LM H	Ом н				
Disturbance Potential	L/N PD PSD	L/N PD PSD	L/N PD PSD				
% ASBESTOS	ND-	,	7				
TYPE ASBESTOS							

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 201
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
_

- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- ☐ Matt Steinhoff, TAI tD No. G7675, Expiration October 6, 2018
- Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- $\ \square$ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- 🗆 Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	The Q <u>uality</u> I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG									
CLIENT: Eloy Elemo		trict	PROJECT NO: 2	Page 6 of 8	•							
SITE ADDRESS: 100 Arizona	00 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -									
SAMPLE NUMBER:	aton	F	LOCATION BY FUNCTIONAL SPACE (FS): TOTAL QUANTITY: SF: 4320 LF:									
Sequential #	1-16e	2-17	3- 18		NOTES							
Location/FS	Lower Roof-		7									
Sample Origin	NW NE SW SE	NW NE SW SE	NW NE									
E/W Location	CATE	GATE	COSTE									
N/S Location	645	2845	425									
Height ^ Floor	24-		->									
Component	£1000-											
Friable	Yes No	Yes No	Yes No									
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Darmaged Sig. Dam.									
Accessibility	None Rare O&M General	None Rare O&M	None Rare O&M General									
Activity Level	Э м н	Омн	L M H									
Disturbance Potential	L/N PD RSD	L/N PR PSD	L/N PD PSD									
% ASBESTOS	W-		7									
TYPE ASBESTOS												

☐ Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018	☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
☐ Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019	☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018	Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018	☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019	☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018
A	

SIGNATURE:

DATE: 8/6/2018

The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the Remarks:

laboratory report. ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG									
	nentary School Dis	trict	PROJECT NO: 2	188JH269	Page 7 of 8.							
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -									
HOMOGENEOUS	MATERIAL:		LOCATION BY	UNCTIONAL SP								
Concrete			Tankook	or valls								
SAMPLE NUMBER			TOTAL QUANT	ITY:								
G-M-1	QA		SF: 4298) LF:								
Sequential #	1-10	2- 10	3-21		NOTES							
Location/FS	Extens wolls-											
Sample Origin	NW NE	NW NE SW SE	NW NE	Block								
E/W Location	OFF	SHE	OHIN									
N/S Location	NFO	SHS	als									
Height ^ Floor	54	5(+	54									
Component	Wall-		-5 n n									
Friable.	Yes No	Yes No	Yes No	3								
Condition	Damaged Sig. Dam.	Good Damaged Sig. Dam.	Gnod Damaged Sig. Dam.									
Accessibility	None Rare O&M General	None Rare O&M Genera	None Rare O&M									
Activity Level	Фмн	Эм н	Эм н									
Disturbance Potential	L/N PD (SD)	L/N PD (PSD)	L/N PD PSD									
% ASBESTOS	110-		- - -									

	Vicky Aviles,	The A	sbestos	Institute	(TAI), G70	031, Expirat	ion May 5	, 2018
_	Connection Move							

- Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019
- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018
- Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

TYPE ASBESTOS

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the laboratory report.

ND = No asbestos detected.

Geotechnical Environmental Inspections Materials	Western Technolo The Quality I Since 1955	ogies Inc. People	ASBESTOS SURVEY SAMPLE LOG								
	mentary School Dis	trict	PROJECT NO: 2	Page 8 of 8.							
SITE ADDRESS: 10 Arizona	000 North Curiel St	reet, Eloy,	SAMPLED SITE: Eloy Elementary School -								
HOMOGENEOUS	MATERIAL:		LOCATION BY		SPACE (FS):						
Mortan SAMPLE NUMBER			Extentor TOTAL QUANT								
G-M-			SF: 4290 a								
Sequential #	1-72	2-23	3- 24		NOTES						
Location/FS	Exterawalls			ļ							
Sample Origin	NW NE	NW NE SW SE	NW (NE SW SE	for	Concret Block						
E/W Location	Off E	SHE	Atu		CP (CP)						
N/S Location	ORTN	Offs	045								
Height ^ Floor	SH	54	54								
Component	Wall-		<u> </u>								
Friable	Yes No	Yes (No)	Yes NQ								
Condition	Good Damaged Sig. Dam.	Good Damaged Sig. Dam.	Damaged Sig. Dam.								
Accessibility	None Rare O&M General	None Rare O&M Genera	None Rare O&M Genera								
Activity Level	Д м н	О М Н	LM H								
Disturbance Potential	L/N PD (ESD)	L/N PD PSD	L/N PD (ESD)								
% ASBESTOS	ND-		9								
TYPE ASBESTOS											

ш	Vicky Aviles, The Asbestos Institute (TAI), G7031, Expiration May 5, 2018
	Suzette Numkena, TAI, ID No. G8456, Expiration April 6, 2019

- ☐ Jason Criss, TAI, ID No. G7027, Expiration May 5, 2018 ☐ Matt Steinhoff, TAI ID No. G7675, Expiration October 6, 2018
- ☐ Ryan Fasci, TAI ID No. G8292, Expiration March 7, 2019
- ☐ Theodore Stude, TAI, ID No. G8459, Expiration April 6, 2019
- ☐ John Holmquist, TAI, ID No. G7810, Expiration November 3, 2018
- ☐ Ryan Cleary, TAI, ID No. G8455, Expiration April 6, 2019
- ☐ Sean Moggridge, Field Science, Al171220001, Exp. December 20, 2018
- ☐ Alex Smith, TAI, ID No. G7791, Exp. November 8, 2018

SIGNATURE:

DATE: 8/6/2018

Remarks: The percent and type asbestos are entered upon completion of laboratory analysis. The date of analysis is available on the

laboratory report.

ND = No asbestos detected.

Western Technologies Inc.	The Q <u>uality</u> People Since 1955
0	

Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Flagstaff • (928) 774-8700 • f 774-6469 • 2400 East Huntington Drive • AZ 86004 Phoenix • (602) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713 Durango • (970) 375-9033 • (375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118

Albuquerque • (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113

Sail Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115

PROJECT ADDRESS

PROJECT NAME

www.wf-us.com

Farmington • (505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401

0
Ĕ
(V)
\supset
$\overline{\mathbf{c}}$
4
0
Z
4
天
C

☐ MICROBIAL	LEAD
☐ INDUSTRIAL HYGIENE	✓ ASBESTOS

S	
9	
S	
ᇤ	
S	
Q	
X	

•	1. 9 J
PROJECT MANAGER	7010

PROJECT MANAGER		EMAIL ADDRESS	Single lawor Analysis		gealant (bluck)		<i>→</i>	sealant (white)	. –	>	asphult roof		>	hot map	0	}	8011		>	Insulation			DATE TIME RECEIVED BY — SIGNATURE	REQUESTED TURNAROUND TIME
TEST METHOD		A38A (/ 3WNT	۰۸ چ	.*																	>	Ha an	RE
SAMPLE TYPE			яэт/	ΗV																		-	RELINDUISHED BY — <i>Signature</i>	DATE TIME
	IEES	IIATNO), OF C	U8	<i>×</i>	į į																` >	A C	W - SI MATURE
PROJECT ADDRESS	1000 NCIONCHST, Elon	ASE ORDER NO.	SAMPLER - PLEASE PRINT NAME A. SWALL	SAMPLE LOCATION	GYMMASILLM	-													cates and	* at 10" 100 at	man sali lis	\	Constitution of the standard o	DATE TIME RECEIVED FORTABORATOR'S
PROJEC	8	PURCH	SAMPLI	DATE TIME																			40	
ROJECT NAME	Cimbed NESHAP	ZHSSZHZ69	AMPLEA - SIGNATURE	NO.	1-1 AP-11-1	1 2-2	√ 33	M-1 26-M-	1 25	3-6	1-1 76-M-8	1 2-8	4 29	01-1 05-M-3	121	₹ 71.4	5-M-9E1-13	H-2	→ 3-k	- M- 9F 1-16	1 2-17		TO THE STANDARD OF THE STANDAR	ELINGUISHED BY — <i>Signature</i>

Review of Analysis Request (Initials)

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

HOURS

DAYS

	Western	Technolo	Inc.	The Quality Pe	Cinco 1055
1	(1			

A COLOR AND A SANDA COLOR AND A COLOR AND	
X ASBESTOS	(505) 327-4966 • f 327-5293 • 400 South Lorena Avenue • NM 87401 • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115
	• (505) 823-4488 • f821-2963 • 8305 Washington Place, N.E. • NM 87113
VH INIGHTSHOW	02) 798-8050 • f 798-7664 • 6633 West Post Road • NV 89118
	70) 375-9033 • f 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303
))) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713
CHAIN	:8) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305
((2) 437-3737 • f 470-1341 • 3737 East Broadway Road • AZ 85040

		2		55									377 —		7,000	-									0.000	
CHAIN OF CUSTODY	THYGIENE	A ASBESTOS		EMAIL ADDRESS		Sindo Carlor Analy Ris	1	block		٠,	mortan		A											DATE TIME RECEIVED BY — SIGNATURE	REQUESTED TURNAROUND TIME	DAYS
				∀:	38A ∖	∃W∩T	٥۸ ک																_		Ä.	
33	487113	115	TEST METHOD				4	×																	-	$\frac{1}{2}$
AZ 863(\Z 8571.	31303 118 E. • NA VM 874(• UT 841	TEST																					SIGNATURE	Î	×
uite C •	NV 89 Place, N	e Drive	- LE			ור	os					_										_		1	TIME	
Drive, S ge Boule	ve, No. st Road nington rena Av	awndal	SAMPLE TYPE				AIA																	RELINGUISHED BY	ATE	_
ndretto th Dod	vyer Dri Nest Po 05 Wasl South Lo) West L	AS -				INB IIW	×														7			4	7
1040 Sa 480 Sou	278 Sav • 6633 \ 63 • 83 • • 400 \$	53 • 42(SF	INE	АТИО	J 40 .		A.					1	A-3	30-32	= 8			-	- (4)				7	SMATURE	
7392 • 3435 • 3	-9034 • 8-7664 • f821-29 27-5293	972-36																						The state of the s	- EII	ر
Prescott • (928) 443-5010 • f 443-7392 • 1040 Sandretto Drive, Suite C • AZ 86305 Tucson • (520) 748-2262 • f 748-0435 • 3480 South Dodge Boulevard • AZ 85713	Durango • (970) 375-9033 • I 375-9034 • 278 Sawyer Drive, No. 2 • CO 81303 Las Vegas • (702) 798-8050 • I 798-7664 • 6633 West Post Road • NV 89118 Albuquerque • (505) 823-4488 • I 821-2963 • 8305 Washington Place, N.E. • NM 87113 Farmington • (505) 327-4966 • I 327-5293 • 400 South Lorena Avenue • NM 87401	Salt Lake City • (801) 972-3650 • f 972-3653 • 420 West Lawndale Drive • UT 84115		1			TION																	SIGNATOR	BORATORY	
13-5010 3-2262	75-9033 798-805 05) 823- () 327-49	01) 972-	Ú	FION		lu.	SAMPLE LOCATION	mho	_				-											Z	20103	Ĭ
(928) 4 520) 74	• (970) 3 • (702) 3 que • (50 n • (505	ity • (8)	(7		– PLEASE PRINT NAME A.J.VI.	SAMP	3	,)										1	(A)	BEC	_
escott • cson • (arango s Vegas buquer rmingto	It Lake (ORESS	ADER NO.		I - PLEASE PI																		15/S	TIME	
	0000 0000	S.	PROJECT ADDRESS	PURCHASE ORDER NO.		SAMPLER - 1																+		96/1	DATE	
gies	ele :	Ì	PR	- P		SAI		2/ho/20	-													\dashv				
Technologies Inc	The Quality People Since 1955	www.wr-us.com	,				1		_	1	2	7	<u>ئ</u> ر												tu.	
Technol	he Q <u>ua</u> Sinc	ar.an.an	110	王万	H269	# 1/ Q	IFICATION	41-19	042-20	13-2	372	12	1003-2											Signature	SIGNATUR	
			NAME	7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3.74%	E CONT	SAMPLE IDENTIFICATION	1-101	101	(0)	-100	801	101								9		- 0		HED BY -	
			PROJECT NAME	WI JOB NO.	268	SAMPLER	SAMPL	M-W			12/11													ALLO K.Z.	MELINOUTS	
							_		_	-							_	-			_					_

Review of Analysis Request (Initials)

White - Testing Laboratory; Yellow - Department Job File; Pink - Field Sample

PAGE 2 OF 2 PAGES



Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:

201807176

Client:

WESTERN TECHNOLOGIES INC

3737 E BROADWAY RD

PHOENIX. AZ

85040-2966

Office Phone:

(602) 437-3737

FAX:

(602) 470-1341

Samples:

PLM

Rec: 8/6/2018 Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 2188JH269 / 1000 N Curiel Street, Eloy

PO Number: Routing Number: -

Report Date:

8/8/2018

Date Analyzed: 8/8/2018

Method and Analysis Information:

Fiberquant Internal SOP: PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to Identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for Identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Single layer sample analysis as per client request. Any material or layer other than that indicated on the chain of custody was not analyzed, even if a suspect material.

	_		_	
PLM	Anai	lveic	Sum	marv:

Lab Number Lab	PLM Analysis Summary:		Job Numi	ber: 201807176	2188JH269 / 1000 N Curiel Street, Eloy
Sample # G-M-9A1-1	Sample Number	•	Lab Number	Apparent Sample Type *	Positive Layer Yes or No
Layer #1 black Sample # G-M-9A2-2 2018-07176 - 2 Adhesive/caulk Positive Layer? No Layer #1 black Sample # G-M-9B3-3 2018-07176 - 3 Adhesive/caulk Positive Layer? No Responsible Sample # G-M-9B3-6 Sample # G-M-9B3-1 Sample # G-M-9B3-	Layer Color	Apparent Layer Ty	pe * Asbe:	itos Results	
Sample # G-M-9A2-2 Sample # G-M-9A3-3 Eaper #1 black Sealant Sample # G-M-9B3-3 Eaper #1 black Sample # G-M-9B3-3 Eaper #1 black Sample # G-M-9B3-5 Eaper #1 white Sample # G-M-9B3-6 Eaper #1 white Sample # G-M-9B3-6 Eaper #1 white Sample # G-M-9B3-6 Eaper #1 white Sample # G-M-9B3-1 Eaper #1 white Sample # G-M-9B3-1 Eaper #1 black		sealant		- ·	Positive Layer? No
Sample # G-M-9A3-3	Sample # <u>G-M-9A2-2</u>		2018-07176- 2	Adhesive/caulk	Positive Layer? No
Sample # G-M-9B1-4	Sample # <u>G-M-9A3-3</u>		2018-07176- 3	Adhesive/caulk	Positive Layer? No
Sample # G-M-9B2-5 2018-07176-5 Adhesive/caulk Positive Layer? No	Sample # <u>G-M-9B1-4</u>	sealant	2018-07176- 4	Adhesive/caulk	Positive Layer? No
Sample # G-M-9B3-6 Sealant Sea	Sample # G-M-9B2-5	sealant	2018-07176- 5	Adhesive/caulk	Positive Layer? No
Sample # G-M-9C2-8 Layer #1 white roofing roll/shingle 2018-07176-8 Roofing no asbestos detected		sealant	2018-07176- 6	Adhesive/caulk	Positive Layer? No
Sample # G-M-9D3-12 2018-07176-10 Roofing Positive Layer? No No asbestos detected 2018-07176-11 Roofing Positive Layer? No No asbestos detected 2018-07176-12 Roofing Positive Layer? No No asbestos detected No asbestos de		roofing roll/shingle		_	Positive Layer? No
Layer #1 white Cooping roll/shingle 2018-07176-10 Roofing Roofin		roofing roll/shingle		_	Positive Layer? No
Layer #1 black bitumen 2018-07176-11 Roofing Positive Layer? No		roofing roll/shingle	•	2	Positive Layer? No
Layer #1 black Sample # G-M-9D3-12 tayer #1 black Sample # G-M-9E2-17 tan linsulation no asbestos detected Sample # G-M-9F3-18 tayer #1 tan linsulation no asbestos detected Sample # G-M-9F3-18 tayer #1 tan linsulation no asbestos detected Sample # G-M-9F3-18 tan linsulation no asbestos detected Sample # G-M-10A1-19 tayer #1 tan linsulation no asbestos detected Sample # G-M-10A2-20 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-22 tayer #1 various block no asbestos detected Sample # G-M-10A3-22 tayer #1 various block no asbestos detected Sample # G-M-10A3-22 tayer #1 various block no asbestos detected Sample # G-M-10A3-22 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected Sample # G-M-10A3-21 tayer #1 various block no asbestos detected		bitumen			Positive Layer? No
Layer #1 black bitumen no asbestos detected		bitumen		-	Positive Layer? No
Layer #1 black roof ply no asbestos detected Sample # G-M-9E2-14 Layer #1 black roof ply no asbestos detected Sample # G-M-9E3-15 Layer #1 black roof ply no asbestos detected Sample # G-M-9F3-15 Layer #1 tan losulation no asbestos detected Sample # G-M-9F1-16 Layer #1 tan losulation no asbestos detected Sample # G-M-9F2-17 Layer #1 tan losulation no asbestos detected Sample # G-M-9F3-18 Layer #1 tan losulation no asbestos detected Sample # G-M-9F3-18 Layer #1 tan losulation no asbestos detected Sample # G-M-10A1-19 Layer #1 various block no asbestos detected Sample # G-M-10A2-20 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 gray mortar no asbestos detected	•	bitumen		_	Positive Layer? No
Layer #1 black roof ply no asbestos detected Sample # G-M-9E3-15		roof ply			Positive Layer? No
Layer #1 black roof ply no asbestos detected Sample # G-M-9F1-16 Layer #1 tan Insulation no asbestos detected Sample # G-M-9F2-17 2018-07176-17 Insulation Positive Layer? No Layer #1 tan Insulation no asbestos detected Sample # G-M-9F3-18 Layer #1 tan Insulation no asbestos detected Sample # G-M-10A1-19 Layer #1 various block no asbestos detected Sample # G-M-10A2-20 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 gray mortar no asbestos detected Positive Layer? No no asbestos detected		roof ply		-	Positive Layer? No
Layer #1 tan Insulation no asbestos detected Sample # G-M-9F2-17 Layer #1 tan insulation no asbestos detected Sample # G-M-9F3-18 Layer #1 tan insulation no asbestos detected Sample # G-M-10A1-19 Layer #1 various block no asbestos detected Sample # G-M-10A2-20 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10A3-21 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 various block no asbestos detected Sample # G-M-10B1-22 Layer #1 gray mortar no asbestos detected	Layer # 1 black	roof ply	no asb		Positive Layer? No
Layer # 1 tan insulation no asbestos detected Sample # G-M-9F3-18 Layer # 1 tan insulation no asbestos detected Sample # G-M-10A1-19 Layer # 1 various block no asbestos detected Sample # G-M-10A2-20 Layer # 1 various block no asbestos detected Sample # G-M-10A3-21 Layer # 1 various block no asbestos detected Sample # G-M-10A3-21 Layer # 1 various block no asbestos detected Sample # G-M-10B1-22 Layer # 1 various block no asbestos detected Sample # G-M-10B1-22 Layer # 1 gray mortar no asbestos detected Positive Layer? No no asbestos detected	Layer #1 tan	Insulation	no asb		Positive Layer? No
Layer # 1 tan Insulation no asbestos detected Sample # G-M-10A1-19 Layer # 1 various block no asbestos detected Sample # G-M-10A2-20 Layer # 1 various block no asbestos detected Sample # G-M-10A3-21 Layer # 1 various block no asbestos detected Sample # G-M-10A3-21 Layer # 1 various block no asbestos detected Sample # G-M-10B1-22 Layer # 1 various block no asbestos detected Sample # G-M-10B1-22 Layer # 1 gray mortar no asbestos detected Positive Layer? No no asbestos detected	Layer #1 tan	insulation	no asb	estos detected	
Layer # 1 various block no asbestos detected Sample # G-M-10A2-20	Layer #1 tan	insulation	no asb	estos detected	· ·
Layer # 1 various block no asbestos detected Sample # G-M-10A3-21	Layer #1 various	block	no asb	estos detected	·
Layer # 1 various block no asbestos detected Sample # G-M-1081-22	Layer #1 various	block	no asb	estos detected	·
Layer # 1 gray mortar no asbestos detected	Layer #1 various	block	no asb	estos detected	Positive Layer? No
Sample # G-M-1087-73 2019.07176-73 Compatitions Design 13 4-	Layer # 1 gray	mortar	no asb	estos detected	
Layer #1 gray mortar no asbestos detected	Sample # <u>G-M-1082-23</u> Layer #1 gray	mortar	2018-07176- 23 no asb	Cementitious estos detected	Positive Layer? No

^{*} Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

no asbestos detected

5025 S. 33rd Street

G-M-10B3-24

Layer #1

2018-07176-24

Positive Layer? No

Sample #

Cementitious

Job Number:

201807176

2188JH269 / 1000 N Curiel Street, Elo

Sample G-M-9A1-1 Lab Number 2018-07176-1 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk **Sticky** Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Flb 2 FIb 3 Fib 4 Fib 5 Fib 6 sealant 100 10-20% 1 black Total % 100 Overall % 10-20% Fiber identification: cellulose fiber Refractive Index Determinations Fibers Color Elg Oit Col Par Col Per RI Par RI Per Mrph Iso Pieo Ext cellulose fiber W N U 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample G-M-9A2-2 Lab Number 2018-07176- 2 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 FIb 5 Fib 6 sealant 100 black 10-20% 100 Total % Overall % 10-20% Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Col Par Col Per RI Par RI Per Mrph Iso Pleo BI Elg Ext cellulose fiber W N M н + U 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Sample G-M-9A3-3 Lab Number 2018-07176-3 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Adhesive/caulk Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, binder, Layers Percents of Each Fiber Color Layer Type Friability Fib 1 Fib 2 FIb 4 FIb 5 Flb 6 FIb 3 sealant 100 10-20% 100 Total % Overall % 10-20% Fiber Identification: cellubse fiber Refractive Index Determinations **Fibers** Color Mrph Iso Pleo Bi Elg Ext Col Par Col Per RI Par RI Per cellulose fiber W N N н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

201807176

2188JH269 / 1000 N Curiel Street, Elo

lomos Non-	geneous Yes Fibrous Componen		An? Layers 1		ppare	nt Sm _l Pos La	Type yer? No	Adhesi		6/2018 k		Non-fit	Conditional Conditions Solid	ion: acce	eptable
<u>L</u> ı	ayers					10 01				Percents	of Each	Fiber			
#	Layer Type	%	Color	Friability		Fib 1		Fib 2		Flb 3		Fib 4	Fib 5		Flb 6
1	sealant	100	white	1		n.d.	I		T	-					-
	Total %	100		Overall 9	6	n.d.			T			. 1	-	T	
			Fiber k	ientification:	none		Ť				T			T	
					- Controlle			- ac = 5		son of		Refractive 1	ndex Dete	rminatio	RS
_	ibers			Color	Mrph	Iso	Pleo	Bi	Elg	Ext	OH	Col Par	Col Per	RI Par	RI Pe
2	nor	ie					1 1 3					-			-
				1			100	- 3	200					-	
			0.5					- 6					0.00		1
											_				
ampl Analy omog	yzed By US 8/8 geneous Yes	3/2018	Lat An? (‡ Layers 1	Number OK A	2018- ppare	07176- nt Sm _l Pos La	5 Type yer? No	Sampl Adhesi	_			Non-fib	Conditi rous Solid	on:acce	ptable
	Fibrous Componen	ts (in app	rox. decre	asing orde	er): fil	ller, bin	der,								
					_				_	Percents				-	
#	Layer Type	%	Color	Friability	-	FIb 1	-	FIb 2	4-	Fib 3	-	Fib 4	Fib 5		Fib 6
1	sealant	100	white	1		n.d.	1	-			1	-			-
	Total %	100		Overall 9	6	n.d.		-		-		· I			
			Fiber lo	lentification:	nona						1	T		T	
											-	tefractive I	nday Data	eminatio	ne
F	ibers			Color	Mrph	Iso	Pleo	BI	Elg	Ext	OII	Col Par	Col Per	RI Par	-
	non	ie													
_												-			
\dashv															-
1-													-		
						 						 		-	
note (Analytical Note											1	1		I
ampi Analy	yzed By US 8/8 geneous Yes Fibrous Componen	/2018	Lab An? (# Layers 1	Number DK A	2018-0 ppare	07176- nt Smp Pos La	6 Type yer? No	Sampl	ve/caul	k			Conditi rous Solid	on: acce	ptable
ton-	syers		Color	Friability	-	EIL 4	T	Ell -	-	Percents	-		F15 -		
Non-l		94-	Calar	-		Fib 1 n.d.	1	Fib 2	+	Fib 3	1	ib 4	FIb S		Fib 6
Non-l	Layer Type	100	white	1 1		H.Q.			+		-			1	-
Non-l	Layer Type sealant	100	white	Overall 9		n.d	5.0	-							-
Non-l La	Layer Type	7		Overall 9		n.d.		*			-				-
Non-l	Layer Type sealant	100		*	none	n.d.		-			Ì				•
Kon-La	Layer Type sealant	100		Overall 9 lentification:	none		Plac		Cla	ا مرع		tefractive I			
Mon-l	Layer Type sealant Total %	100		Overall 9		n.d.	Pleo	Bi	Elg	Ext	F	lefractive I	ndex Dete		
#	Layer Type sealant Total %	100		Overall 9 lentification:	none		Pleo		Elg	Ext					
Non-la #	Layer Type sealant Total %	100		Overall 9 lentification:	none		Pleo		Elg	Ext					
Mon-l	Layer Type sealant Total %	100		Overall 9 lentification:	none		Pleo		Elg	Ext					
Non-l	Layer Type sealant Total %	100		Overall 9 lentification:	none		Plao		Elg	Ext					
Non-l	Layer Type sealant Total %	100		Overall 9 lentification:	none		Plao		Elg	Ext					
Kon-La	Layer Type sealant Total %	100 100	Fiber Id	Overall 9 lentification:	none	Iso		Bi	Elg	Ext					

Job Number:

201807176

2188JH269 / 1000 N Curiel Street, Elo

Sample G-M-9C1-7 Lab Number 2018-07176-7 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type Roofing** Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, binder Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 FIb 2 Flb 3 FIb 4 Fib 5 FIb 6 roofing roll/shingle 100 white 5-10% Total % 100 Overall % 5-10% Fiber Identification: glass liber Refractive Index Determinations Fibers Color Iso Pieo Mrph | BUI Elg Ext Col Par Col Per RI Par RI Per glass fiber 1 D 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9C2-8 Lab Number 2018-07176-8 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, binder Layers Percents of Each Fiber **Layer Type** Color Friability Flb 1 Fib 2 FIb 3 Fib 4 FIb 5 Fib 6 roofing roll/shingle 100 white 1 5-10% 100 Total % Overall % 5-10% Fiber Identification: glass fiber Refractive Index Determinations Fibers Elg Color Mrph Iso Pleo BI Ext Oil Col Par Col Per RI Par RI Per plass fiber CL, D 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9C3-9 Lab Number 2018-07176-9 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, rock, binder Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 Fib 2 Fib 4 FIb 5 Fib 6 roofing rall/shingle white 5-10% Total % 100 Overall % 5-10% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Mrph Iso Ela Ext Pieo Bi Col Par Col Per RI Par RI Per synthetic fiber (extruded) W E N N Н 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

201807176

2188JH269 / 1000 N Curiel Street, Elo

Sample G-M-9D1-10 Lab Number 2018-07176- 10 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An7 OK **Apparent Smp Type Roofing** Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Lavers Percents of Each Fiber **Layer Type** Color Friability Fib 1 Flb 2 FIb 3 Fib 4 Fib 5 FIb 6 bitumen 100 black 1 >1-2% Total % 100 Overall % >1-2% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Bi Elg Ext Oil Col Par | Col Per | RI Par | RI Per glass fiber 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9D2-11 Lab Number 2018-07176- 11 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By US An? OK **Apparent Smp Type** Roofing Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 FIb S Fib 6 bltumen 100 black >1-2% Total % 100 Overall % >1-2% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Mrph Iso Pleo Elg OII BI Ext Col Par Col Per RI Par RI Per glass fiber CL D 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9D3-12 Lab Number 2018-07176- 12 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Sticky Homogeneous Yes # Lavers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber **Layer Type** Color Friability Fib 1 FIb 2 Fib 3 Fib 4 Fib 5 Fib 6 bitumen 100 black >1-2% Total % 100 Overall % >1-2% Fiber Identification: glass fiber Refractive Index Determinations Fibers Color Iso Pleo OH Mrph | BI Ela Ext Col Par Col Per RI Par RI Per glass fiber CL D 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Job Number:

201807176

2188JH269 / 1000 N Curiel Street, Elo

Sample G-M-9E1-13 Lab Number 2018-07176-13 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Roofing Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber # Layer Type Color Friability FIb 1 FIb 2 Fib 3 Fib 5 Fib 6 roof ply 100 black 1 5-10% 100 Overall % 5-10% Total % Fiber identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Iso Pieo Elg Ext Col Par Col Per RI Par RI Per ΒĬ synthetic fiber (extruded) w N N 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9E2-14 Lab Number 2018-07176-14 Sampled: 8/6/2018 Condition: acceptable 8/8/2018 Analyzed By US An? OK Apparent Smp Type Roofing Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Layers Percents of Each Fiber Color Layer Type Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 FIb 6 roof ply 100 1 5-10% 100 Total % Overall % 5-10% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Col Par | Col Per | RI Par | RI Per Mrph Iso Pieo Elg Ext synthetic fiber (extruded) w Е N N P 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent. Sample G-M-9E3-15 Lab Number 2018-07176-15 Sampled: 8/6/2018 Condition: acceptable **Analyzed By US** 8/8/2018 An? OK Apparent Smp Type Roofing Sticky Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): bitumen, , Percents of Each Fiber # Laver Type Color **Friability** Fib 1 Fib 2 Flb 3 Fib 4 Fib 5 Fib 6 1 roof ply 100 black 5-10% Total % 100 Overall % 5-10% Fiber Identification: synthetic fiber (extr Refractive Index Determinations Fibers Color Mrph Iso Pleo ы Elg Ext Oil Col Par | Col Per | RI Par | RI Per synthetic fiber (extruded) W E N N Н 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139

1-800-743-2687

FAX: 602-276-4558

Job Number:

201807176

2188JH269 / 1000 N Curiel Street, Elo

Sample G-M-9F1-16 Lab Number 2018-07176-16 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An7 OK **Apparent Smp Type** Insulation Fibrous Mat Pos Layer? No Homogeneous Yes # Layers 1 Non-Fibrous Components (In approx. decreasing order): binder, , Layers Percents of Each Fiber # Layer Type Color Friability FIb 1 Fib 2 Fib 3 Fib 4 FIb 5 Fib 6 insulation 3 90-100% 100 tan Overall % 90-100% Total % 100 Fiber Identification: cellulose fiber Refractive Index Determinations Fibers Color Bi Elg Ext Col Par | Col Per | RI Par | RI Per Iso Pieo Mrph cellulose fiber W N N н U 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Sample G-M-9F2-17 Lab Number 2018-07176-17 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type Insulation** Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): binder, , Layers Percents of Each Fiber Layer Type Friability Color Flb 1 Fib 2 FIb 3 Fib 4 FIb 5 FIb 6 Insulation 100 90-100% tan 3 Total % 100 90-100% Overall % Fiber Identification: celulose fiber Refractive Index Determinations Fibers Col Par Col Per RI Par RI Per Color Mrph Iso Piec Elg Ext cellulose fiber N U 2 3 4 5 Sample Analytical Note Procedure: tweased apart using forceps. Sample G-M-9F3-18 Sampled: 8/6/2018 Lab Number 2018-07176- 18 Condition: acceptable Analyzed By US 8/8/2018 An? OK Apparent Smp Type Insulation Fibrous Mat Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): binder, , Layers Percents of Each Fiber Friability # Layer Type Color Fib 2 Fib 1 Fib 3 Fib 4 FIb 5 Fib 6 insulation 100 tan 90-100% Total % 100 Overall % 90-100% Fiber Identification: celulosa fiber Refractive Index Determinations Fibers Color Mrph Iso Pieo BI Elg Ext Oil Col Par Col Per RI Par RI Per cellulose fiber W F N N н Ü 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps.

5025 S. 33rd Street

Phoenix, Arizona 85040-2816

Phone: 602-276-6139 1-800-743-2687 FAX: 602-276-4558

Sample G-M-10A1-19 Sampled: 8/6/2018 Lab Number 2018-07176- 19 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber # Layer Type Color Friability Fib 2 Fib 3 Fib 4 FIb 1 Fib S FIb 6 block 100 various n.d. 100 Overall % Total % n.d Fiber identification: none **Refractive Index Determinations** Fibers Color Mrph Pieo Ext Col Par | Col Per | RI Par | RI Per none 2 3 4 5 6 Sample Analytical Note Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample G-M-10A2-20 Lab Number 2018-07176- 20 Sampled: 8/6/2018 Condition: acceptable An? OK Analyzed By US 8/8/2018 **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber # Layer Type Color Friability Fib 1 FIb 2 Fib 3 Flb 4 Fib S Fib 6 block 100 various n.d. Total % 100 Overali % n.d Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo BI Elg Ext OH Col Par | Coi Per | RI Par | RI Per 2 3 4 5 6 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Sample G-M-10A3-21 Lab Number 2018-07176- 21 Sampled: 8/6/2018 Condition: acceptable Analyzed By US 8/8/2018 An? OK **Apparent Smp Type** Cementitious Non-fibrous Solid Homogeneous Yes # Layers 1 Pos Layer? No Non-Fibrous Components (in approx. decreasing order): filler, rock, binder Layers Percents of Each Fiber Layer Type Color Friability Fib 1 Fib 2 Fib 3 Fib 4 Fib 5 Fib 6 block 100 various n.d Total % 100 Overall % n.d. Fiber Identification: none Refractive Index Determinations Fibers Color Mrph Iso Pleo 81 Elg Ext Oil Col Par Col Per RI Par RI Per 3 4 5 Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

1-800-743-2687

201807176

2188JH269 / 1000 N Curiel Street, Elo

Layer Type		rous Component		# Layers 1 prox. decre	asing orde	Br). U	ller m	rk, blad	er							
Layer Type	Layer	·	o (m upp	nox decre	asing ora		1101, 101	-K, 51110			Derreate	of Each	Elhar			
Montar 100 gray 2 m.d.		Layer Type	%	Color	Friability	, =	Fib 1	1	Fib 2	T	-	7		Fib 5	T	Fib 6
Total % 100 Ovarall % Fiber Identification: Income			-								-		. 1			
Fiber Semilication:	- 22	Total %	100			4		1	-			1	- T		1 -	
Refractive Index Detarminations				Elban fa				1		=		-			1	
Color Myph Iso Pico Bi Eig Ext Oil Col Par Col Par RI Par RI				riber ic	senuncauon;	none				-		_			1 11	
Indicate	Fiber	rs			Color	Mrnh	Iso	Pleo	BI	Ela	Ext	_				
Condition: acceptable Cond		none		T - 112 - 2	7 7 7 7	2 (5)							30.137	-	74.1	100
Condition: acceptable Cond	_															
Condition: acceptable Cond				7.04				1110.8				-	-		-	
Condition: acceptable Cond		Transaction in the			1 001		-									
Condition: acceptable Cond																
Total % None	ple Ana	lytical Note														
Non-fibrous Solid Non-fibrous Solid Non-fibrous Solid Non-fibrous Solid	cedure	tweased apart us	ing forcep	s. Procedur	e: dissoluti	ion of i	matrix	using di	lute HC	l acid.						
Non-fibrous Solid Non-fibrous Solid	nnio	TC-M-1082-22		Lak	Marekan	7018	07176	22		-d- D/	C/2010			Constant		
Postageneous Post		727									0/2010					plac
Layer Type	-		2018	An7	UK A	ppare	nt Smj	туре	Cemen	titious			Non-fib	rous Solid		
Layer Type	_															
Layer Type			s (in app	rox. decre	asing ord	er): fi	ller, ro	k, bind	er							
Montar 100 gray 2 n.d - - - - - - - -	Layer	78									Percents	of Each	Fiber			
Total % 100 Overalt % n.d. - - - - - - - - -		Layer Type	%	Color	Friability		Fib 1		Fib 2		FIb 3		Fib 4	FIb S		ib 6
Fiber Fibe		mortar	100	gray	2		n.d.		-		3.50		-			
Color Mrph Iso Pieo Bi Eig Ext Oil Col Par Col Par R1 Par R1		Total %	100		Overal! 9	6	n.d.									
Color Mrph Iso Pieo Bi Eig Ext Oil Col Par Col Par RI Par RI				Fiber lo	ientification:	none						T			T	
Color Mrph Iso Piec Bi Eig Ext Oil Col Par Col Par RI Par RI none				1 1201 10	***************************************	Pione					2-1-1	_	Information T	aday Data		
none	Fiber	rs			Color	Mrph	Iso	Pieo	Bi	Elg	Ext		7			_
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24		none														
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24								-								
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24				_									-			-
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24	-	Table Sale														-
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24					9 40 10											
redure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Imple G-M-10B3-24	ele Ana	lytical Note													-	
Lab Number 2018-07176- 24 Sampled: 8/6/2018 Condition: acceptable lalyzed By US 8/8/2018 An? OK Apparent Smp Type Cementitious Non-fibrous Solid Non		-	ing forces	s. Procedur	e: dissoluti	on of i	natrix (ısina di	lute HC	l acid.						
Non-fibrous Solid nogeneous Yes # Layers 1 Pos Layer? No parents of Each Fiber								2					-		***	
Postage Post				Lab	Number	2018-	07176-	24	Sample	ed: 8/	6/2018			Conditi	on: acce	ptab
Percents of Each Fiber Layer Type	alyze	d By U5 8/8/	2018	An?	DK A	ppare	nt Smj	Туре	Cemen	titious			Non-fib	rous Solid		
Layer Type	MAGAR															
Layer Type	nogen	rous Component	s (in app	rox. decre	asing orde	er): fil	ler, roo	k, bind	er							
Layer Type	_	**					13.55				Percents	of Each	Fiber		C C -	
mortar 100 gray 2 n.d. - - - - - - - - -	on-Fib	Layer Type	9/6	Color	Friability		Fib 1	1	Fib 2	T				Fib 5	T	ib 6
Total % 100 Overali % n.d	on-Fib							1		_		T				
Fibers Color Mrph Iso Pleo Bi Eig Ext Oil Col Par Col Per RI Par RI none Indication: none Refractive Index Determinations Refra	on-Fib	mortar		2.41	17.5	-				-		-	-			
Fibers Color Mrph Iso Pleo BI Elg Ext none none Analytical Note	n-Fib		100				11.66			-					-	
Fibers Color Mrph Iso Pieo Bi Eig Ext Oil Col Par Col Per RI Par RI none I I I I I I I I I I I I I I I I I I I	n-Fib		100		lentification:	none										
none Si Eig Ext UII Col Par Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Eig Ext UII Col Par R1 A Prico Si Ei	วก-Fib		100	Fiber ld				Ples	21	Fic	gus.					
le Analytical Note	Layer	Total %	100	Fiber ld	Color	Menh	Ten	F 100	101	E19	EXC	- 511	COI Par	COI PET	R4 Par	ru.
	Layer	Total %		Fiber k	Color	Mrph	Iso				1					_
	Layer	Total %		Fiber k	Color	Mrph	Iso						1			
	Layer	Total %		Fiber k	Color	Mrph	Iso							7		
	Layer	Total %		Fiber k	Color	Mrph	Iso									
	Layer	Total %		Fiber k	Color	Mrph	Iso									
TOTUTE: THE STOR SHOW THE STORE AND ADDRESS OF STREET AND ADDRESS OF STREET AND ADDRESS OF STREET	Layer Fiber	Total %		Fiber Id	Color	Mrph	Iso									

Fr=Friability: 1 =very non-friable; 2 = non-friable; 3 =friable; 4=highly friable Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;QR=crange;QW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends;
D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper Iso=isotropism - may be yes or no; Pleo-pleochroism - may be yes or no; Pleo-pleochroism - may be yes or no; Bi=bkefringence - may be None, Low, Medium or High Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow; vb/g= vivid blue/godd; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber. RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Printed: 08-Aug-18

Original Print Date: 08-Aug-18

Larry S. Pierod, Approved Accreditation Signatory



THE A SBESTOS INSTITUTE

Certifies that

Alexander Smith

has attended the EPA approved course

AHERA Building Inspector Initial November 6-8, 2017

and successfully passed the competency exam.

Date of Examination: November 8, 2017

Date of Expiration:

November 8, 2018

William T. Cavness Director

THE ASBESTOS INSTITUTE

Approved Instructor

20033 N. 19th Avenue Phoenix, AZ 85027 602-864-6564 Building #6

THE ASBESTOS INSTITUTE

Certifies that

Theodore Stude

has attended the EPA approved course

AHERA Building Inspector Refresher

The Asbestos Institute

Theodore Stude

The Asbestos institute 20033 N 19th Ave Bidg 6

April 6, 2018

and successfully passed the competency exam.

Rains

Approved Instructor

Date of Expiration: April 6, 2019

Date of Examination: April 6, 2018

William T. Cavness Director

THE ASBESTOS INSTITUTE

20033 N. 19th Avenue Building #6 Phoenix, AZ 85027

602-864-6564

This training meets all requirements for asbestos accreditation under Toxic Substance Control Act Title II and California OSHA.

Eloy Elementary School District Curiel Primary School 1000 North Curiel Street Eloy, Arizona Photographic Log

WESTERN TECHNOLOGIES INC.

WT Job No.: 2188JH269 Date: August 6, 2018



Picture 1 – General view of Building 5.



Picture 2 – Building 6 and 7, and general lay-out of Buildings 8 through 13.



Picture 3 – General view of Building 14.



Picture 4 – General view of the Gymnasim.



Picture 5 – Asphalt shingles and felt roofing system found on Buildings 5 through 14.



Picture 6 – Breezway found connecting Buildings 5 through 13.

Eloy Elementary School District Curiel Primary School 1000 North Curiel Street Eloy, Arizona

Photographic Log WESTERN TECHNOLOGIES INC.

WT Job No.: 2188JH269



Picture 7 – Black roof penetration sealant found on buildings 5 though 14 and the Gymnasium.



Date: August 6, 2018

Picture 8 – White roof sealant on HVAC systems on buildings 5 through 14 and the Gymnasium.



Picture 9 – Concrete block and mortar exterior walls on buildings 5 though 14.



Picture 10 - Window glazing found on buildings 12 and 13.



Picture 11 - Picture 10 - Concrete block and mortar exterior walls with white paint found on the Gymnasium



Picture 12 – View of lower roof of the Gymnasium.