

9830 SOUTH 51st STREET, STE. B-109 / PHOENIX, ARIZONA 85044 T: (480) 940-5294 / F: (480) 893-1726 / E-mail: Howard@EMC-AZ.com

Date:

October 09, 2018

Client(s):

Page Unified School District #8

500 S Navajo Drive, Page, Arizona 86040

Attention:

Cody Chischilly, Page Unified Maintenance Director

Telephone: (928) 608-4158; Cellular: (928) 660-8306;

E-Mail: cchischilly@pageud.org

Subject:

Limited Asbestos Bulk Sampling, Laboratory Analysis, & Report

Page Middle School - 101 El Mirage Street, Page, Arizona 86040

Dear Cody,

EMC² is pleased to submit this report for the Asbestos Containing Material (ACM) bulk sampling / laboratory analysis.

At the request of the client, bulk sampling was performed at the above referenced site to determine the presence, if any, of Asbestos Containing Materials (ACM) in the materials / areas specified below. This report documents observations during the inspection along with laboratory results for samples taken at this facility.

Services provided:

1. Test suspect materials that will be affected by the upcoming roofing replacement project. Affected areas / materials were specified by the client. Materials that are not listed on the following page were not tested during this project.

Included Areas / Materials:

1. Buildings B, C, D, & E - Roof / roofing and associated materials

Excluded Areas / Materials:

All other areas / materials; Inaccessible spaces; Exterior

Inspection Information:

Patricia Francis:

EPA Building Inspector:

Dates of Inspection: 09/25/2018 - 09/28/2018

Laboratory:

EMC Labs, Inc.

Date of Analysis: 10/09/2018

EPA #: 4644-222-081518 (Exp. 08/15/2019)

Training Provider: Asbestos Institute

of Samples:

46

Method: PLM - Polarized Light Microscopy

<u>Inspection / Sampling Procedures:</u>

A visual inspection and sampling survey in the designated area(s) of the facility were conducted in accordance with general Environmental Protection Agency / Asbestos Hazard Emergency Response Act (EPA / AHERA) and current OSHA 29 CFR 1926.1101 guidelines to determine the presence of exposed and / or accessible suspect asbestos containing materials (ACM). Suspect materials were determined to be either friable / non-friable by touch as per EPA NESHAP 40 CFR 61, Subpart M.

Representative bulk samples were taken in random / convenience fashion for each suspect material included in this project / inspection. Material samples were taken and submitted to a laboratory for analysis to determine the presence or absence of asbestos.

Laboratory:

Asbestos: Analysis was performed by EMC Labs, Inc. located at 9830 South 51st Street, Suite B-109, Phoenix, Arizona 85044, under NVLAP accreditation number 101926-0, using Polarized Light Microscopy (PLM) according to the EPA 600/M4-82-020 method.

Analysis Results:

Building B:

1. Roofing Material

Sample(s) 01 - 03

None Detected

Located on all roof sections - approx. 9,000 sf.

2. Roof Flashing Caulking

Sample(s) 04 - 06

None Detected

Located along the perimeter of the roof, where the metal flashing connects to parapet wall

systems - approx. 380 lf. @ 1"

<u>Laboratory</u> #0209012:

3. Masonry Block

Sample(s) 01 - 02

None Detected

Mortar Material

Sample(s) 09 - 10

None Detected

Located in roof parapet wall systems - unquantified

Analysis Results:

(Continued)

Building C:

1. Roofing Material Sample(s) 07 - 09 None Detected

Located on all roof sections - approx. 5,310 sf.

2. Roof Flashing Caulking Sample(s) 10 - 12 None Detected Located along the perimeter of the roof, where the metal flashing connects to parapet wall systems - approx. 330 lf. @ 1"

3. Building Expansion Joint Sample(s) 13 - 15 None Detected Located in the perimeter masonry parapet wall systems - unquantified

Laboratory #0209012:

4. Masonry Block Sample(s) 03 - 04 None Detected Mortar Material Sample(s) 11 - 12 None Detected Located in roof parapet wall systems - unquantified

Building D:

1. Roofing Material Sample(s) 16 - 18 None Detected Located on all roof sections - approx. 6,955 sf.

2. Roof Flashing Caulking Sample(s) 19 - 21 2% - 3% Asbestos
Located along the perimeter of the roof, where the metal flashing connects to parapet wall systems - approx. 440 lf. @ 1"

3. Building Expansion Joint Sample(s) 22 - 24 None Detected Located in the perimeter masonry parapet wall systems - unquantified

Laboratory #0209012:

4. Masonry Block Sample(s) 05 - 06 None Detected Mortar Material Sample(s) 13 - 14 None Detected Located in roof parapet wall systems - unquantified

Building E:

2.

1. Masonry Block Sample(s) 07 - 08 None Detected Mortar Material Sample(s) 15 - 16 None Detected Located in roof parapet wall systems - unquantified

Roofing Material Sample(s) 17 - 19 None Detected

Located on all roof sections - approx. 2,275 sf.

Analysis Results:

(Continued)

Building E: (Continued)

 Roof Flashing Caulking Sample(s) 20 - 21 None Detected Located along the perimeter of the roof, where the metal flashing connects to parapet wall systems - approx. 310 lf. @ 1"

Inspection Summary - Asbestos Containing Materials:

Based on the laboratory analysis results of samples taken at this facility during this inspection, it was determined that the following asbestos containing materials are present at this facility. The NESHAP / OSHA regulation classification () are given for each material.

Building D:

Roof Flashing Caulking - approx. 440 lf. @ 1" (Cat. II / Class 2)
 Located along the perimeter of the roof, where the metal flashing connects to parapet wall systems.

Definitions:

- 1. <u>Asbestos-Containing Materials</u>: Any material containing more than one (1%) asbestos as determined by bulk sampling by an EPA certified inspector with sample analysis being completed by a NVLAP accredited laboratory.
- 2. EPA NESHAP Classifications:

Regulated Asbestos Containing Materials (RACM - Friable) Category I Non-friable materials (Cat. I) Category II Non-friable materials (Cat. II)

OSHA Classifications:

Class 1: Surfacing Materials, Thermal Systems Insulation

Class 2: All other materials not included in Class 1

Recommendations / Conclusions:

If renovation or demolition will affect the asbestos containing material(s) found in this report, removal is recommended prior to these actions. Asbestos abatement should only be performed by trained, certified personnel or a licensed, insured asbestos abatement contractor.

When applicable, alert occupants, outside contractors, and personnel to the locations of the ACM to prevent an accidental fiber release and/or damage to the ACM.

If renovation activities will affect other suspect ACM materials that have not been tested for asbestos, additional sampling is <u>mandated</u> by federal regulations. During this inspection, destructive means were not used to gain access to inaccessible spaces such as mechanical system interiors, duct chases, wall interiors, plenum spaces, etc.

During any renovation / demolition activities, personnel should always be aware and alert for any ACM suspect material that may be hidden in these areas. If other suspect materials not included in this report are discovered, an EPA Certified Building Inspector / Management Planner should be contacted to assess the material, material condition, and recommend a proper response action.

EMC² appreciates the opportunity to have provided these services to you. If there are any questions concerning this report or if we may assist you on future projects, please contact me at (480) 940-5294.

Sincerely,

Benjamin Jones

Field Operations Manager

Benjamin Jones

FIELD SAMPLE SHEET

Site: Page Unified School District; Building: Middle School;

Date: 9/25/2018; Inspector: Patricia Francis;

+/-	#	Material	Room / Area	Location
	/	hooting	Root Bldg-B	Origin: W: N/8: AFF:
	2			Origin: END WS: AFF:
	3			Origin: E/NV) (NJS: AFF:
	4	Flashing Caulk		Origin: E/W: N/SC AFF
	5			Origin: E/W: N/78: AFF
	6			Origin: E/W: KUS: AFF:
	7	Roofing	Root Bldg - C	Origin: (E/W: N/S) AFF:
	8			Origin: EAW: NVS: AFF:
	9			Origin: E/W: N/S: AFF:
	10	Flashing Caulk		Origin: E/W: N.S. AFF.
	[/			Origin: E/W: N/S/ AFF:
	D			Origin: E/W: (N/S: AFF.)
	13	Bldg Expansion Joint		Origin: E/W: N/S:) AFF
	14			Origin: E/W: (N)S: AFF.
	15			Origin: E/W: N/S: APF:

Origin - Corner of room or start point - NW corner, NE Unit, etc.;

E/W or N/S - Insert footage and circle the direction you travel to the sample location;

AFF - Above finished floor - height of sample;

FIELD SAMPLE SHEET

Site: Page Unified School District; Building: Middle School;

Date: 9/25/2018; Inspector: Patricia Francis;

	+/-	#	Material	Room / Area	Location
		16	Roofing	Koot Bldg - D	Origin: (E)W: N/S: AFF:
		17			Origin: ENW NVS: AFF:
		18			Origin: (E)W: N/S) AFF:
2	+	19	Flashing		Origin: N/S: AFF:
3	+	20			Origin: EW: N/S: AFF:
2	+	21			Origin: E/W N/S: AFF:
		22	Building Expansion Soint	•	Origin: (EW: N/S: AFE) NW 30+0 2
		23			Origin: E/W: (N/S: AEF:
		24			Origin: E/W: (N)S: (FF)
					Origin: E/W: N/S: AFF:
					Origin: E/W: N/S: AFF:
					Origin: E/W: N/S: AFF:
					Origin: E/W: N/S: AFF:
					Origin: E/W: N/S: AFF:
					Origin: E/W: N/S: AFF:

Origin - Corner of room or start point - NW corner, NE Unit, etc.;

E/W or N/S - Insert footage and circle the direction you travel to the sample location;

AFF - Above finished floor - height of sample;

Laboratory Report 0208885

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC², LLC

9830 S. 51ST ST. STE B109

Job# / P.O. #:

Date Received:

09/27/2018

PHOENIX AZ 85044

Date Analyzed:

10/09/2018

Collected:

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

09/25/2018

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto: Detected	s Asbestos Type d (%)	Non-Asbesto Constituents	
0208885-001 1	ROOF BLDG B	ROOF BLDG B LAYER 1 PRoofing, White	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler	<1% 99%
		LAYER 2 Roofing, Gray/ Black	No	None Detected	Fibrous Glass Carbonates Quartz Binder/Filler	25% 75%
		LAYER 3 Roofing, Black	No _.	None Detected	Fibrous Glass Cellulose Fiber Carbonates Gypsum Quartz Binder/Filler	30% 3% 67%
		LAYER 4 Roofing, Beige	No	None Detected	Cellulose Fiber Carbonates Gypsum Perlite Binder/Filler	85% 15%

Laboratory Report 0208885

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address:

Address:

EMC², LLC

9830 S. 51ST ST. STE-B109

PHOENIX AZ 85044

Collected:

09/25/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

10/09/2018 Date Reported: 10/09/2018

EPA Method:

EPA 600/R-93/116

09/27/2018

CLIENT

Submitted By: Collected By:

	Collected By:								
Lab ID Client ID	Sample Location			s Asbestos Type d (%)	Non-Asbesto Constituent				
0208885-002	ROOF BLDG B	LAYER 1	No .	None Detected	Synthetic Fiber	<1%			
2		Roofing, White			Carbonates Quartz Binder/Filler	99%			
		LAYER 2	No	None Detected	Fibrous Glass	25%			
	• •	Roofing, Gray/ Black			Carbonates Quartz Binder/Filler	75%			
		LAYER 3	No	None Detected	Fibrous Glass	30%			
		Roofing, Black			Carbonates Gypsum Quartz Binder/Filler	70%			
		LAYER 4	No	None Detected	Cellulose Fiber	85%			
. ,		Roofing, Beige			Carbonates Gypsum Perlite Binder/Filler	15%			

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC², LLC

Job# / P.O. #:

Date Received:

09/27/2018

PHOENIX AZ 85044

9830 S. 51ST ST. STE B109

Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detected	s Asbestos Type d (%)	Non-Asbesto Constituents	
0208885-003 3	ROOF BLDG B	LAYER 1 Roofing, White	No .	None Detected	Carbonates Quartz Binder/Filler	100%
		LAYER 2 Roofing, Gray/ Black	No	None Detected	Fibrous Glass Carbonates Quartz Binder/Filler	25% 75%
		LAYER 3 Roofing, Black	No	None Detected	Fibrous Glass Carbonates Gypsum Quartz Binder/Filler	35% 65%
		LAYER 4 Roofing, Beige	No	None Detected	Cellulose Fiber Carbonates Gypsum Perlite Binder/Filler	85% 15%
0208885-004 4	ROOF BLDG B	Flashing Caulk, Clear/ Brown	No	None Detected	Silicone	100%
0208885-005	ROOF BLDG B	Flashing Caulk, Clear/ Brown	No	None Detected	Silicone	100%
0208885-006 6	ROOF BLDG B	Flashing Caulk, Clear/ Brown	No	None Detected	Silicone	100%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC2, LLC

Job# / P.O. #:

Date Received:

09/27/2018

PHOENIX AZ 85044

9830 S. 51ST ST. STE B109

Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto: Detected	s Asbestos Type I (%)	Non-Asbestos Constituents	
0208885-007 7	· ROOF BLDG C	LAYER 1 Roofing, White	No	None Detected	Carbonates	
					Quartz Binder/Filler	100%
		LAYER 2	No	None Detected	Fibrous Glass	20%
		Roofing, Gray/ Black			Carbonates Quartz Binder/Filler	80%
		LAYER 3	No	None Detected	Fibrous Glass	35%
		Roofing, Black			Carbonates Quartz Binder/Filler	65%
		LAYER 4	No	None Detected	Cellulose Fiber	85%
		Roofing, Beige	•		Perlite Gypsum Binder/Filler	15%
0208885-008	ROOF BLDG C	LAYER 1 Roofing, White	No	None Detected	Carbonates Quartz Binder/Filler	100%
		LAYER 2	No	None Detected	Fibrous Glass	20%
		Roofing, Gray/ Black			Carbonates Quartz Binder/Filler	80%
		LAYER 3 Roofing, Black	No	None Detected	Fibrous Glass Cellulose Fiber Gypsum Carbonates Quartz	5% <1%
					Binder/Filler	94%

Laboratory Report 0208885

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC2, LLC

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected:

09/25/2018

Address:

Project Name: PAGE UNIFIED SCHOOL DISTRICT

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

Date Reported:

EPA Method:

10/09/2018 EPA 600/R-93/116

Submitted By:

CLIENT

09/27/2018

10/09/2018

	Collected By:								
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detected	s Asbestos Type d (%)	Non-Asbeste Constituent				
0208885-009 9	ROOF BLDG C	LAYER 1 Roofing, White	No	None Detected	Carbonates Quartz				
		LAYER 2	No	None Detected	Binder/Filler Fibrous Glass	100% 20%			
		Roofing, Gray/ Black			Carbonates Quartz Binder/Filler	80%			
		LAYER 3	No	None Detected	Fibrous Glass	35%			
		Roofing, Black			Carbonates Quartz Binder/Filler	65%			
		LAYER 4	No	None Detected	Cellulose Fiber	85%			
		Roofing, Beige			Perlite Gypsum Binder/Filler	15%			
0208885-010 10	ROOF BLDG C	Flashing Caulk, Clear/ Brown	No	None Detected	Carbonates Gypsum Binder/Filler	100%			
0208885-011 11	ROOF BLDG C	Flashing Caulk, Clear/ Brown	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%			
0208885-012	ROOF BLDG C	Flashing Caulk, Clear/ Brown	No	None Detected					
1 2					Carbonates Gypsum Quartz Binder/Filler	100%			

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Job# / P.O. #:

Address:

9830 S. 51ST ST. STE B109

Date Received:

09/27/2018

Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

PHOENIX AZ 85044

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detected	s Asbestos Type i (%)	Non-Asbestos Constituents	
0208885-013 13	ROOF BLDG C	LAYER 1 Building Expansion Joint, White	No	None Detected	Carbonates Gypsum Binder/Filler	100%
		LAYER 2 Building Expansion Joint, Brown	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0208885-014 14	ROOF BLDG C	LAYER 1 Building Expansion Joint, White	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler	<1% 99%
	·	LAYER 2 Building Expansion Joint, Brown	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%
0208885-015 15	ROOF BLDG C	LAYER 1 Building Expansion Joint, White	No	None Detected	Carbonates Gypsum Binder/Filler	100%
		LAYER 2 Building Expansion Joint, Brown	No	None Detected	Carbonates Gypsum Quartz Binder/Filler	100%

Laboratory Report 0208885

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Job# / P.O. #:

Address:

9830 S. 51ST ST. STE B109

09/27/2018

PHOENIX AZ 85044

Date Received: Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Asbestos Type Detected (%)		Non-Asbestos Constituents	
						j.
0208885-016 ROOF BLDG 16	ROOF BLDG D	LAYER 1	No	None Detected	Synthetic Fiber	<1%
		Roofing, White			Carbonates Quartz Binder/Filler	99%
		LAYER 2	No	None Detected	Fibrous Glass	25%
		Roofing, Gray/ Black			Carbonates Quartz Binder/Filler	75%
		LAYER 3	No	None Detected	Fibrous Glass	30%
		Roofing, Black			Carbonates Gypsum Quartz Binder/Filler	70%
		LAYER 4	No	None Detected	Cellulose Fiber	85%
		Roofing, Beige			Carbonates Gypsum Perlite Binder/Filler	15%

Laboratory Report 0208885

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC², LLC

Job# / P.O. #:

Date Received:

09/27/2018

PHOENIX AZ 85044

.9830 S. 51ST ST. STE B109

Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detecte	os Asbestos Type d (%)	Non-Asbest Constituent	
0208885-017 17	ROOF BLDG D	LAYER 1 Roofing, White	No	None Detected	Carbonates Quartz Binder/Filler	100%
		LAYER 2 Roofing, Gray/ Black	No	None Detected	Fibrous Glass Carbonates Quartz Binder/Filler	25% 75%
		LAYER 3 Roofing, Black	No	None Detected	Fibrous Glass Cellulose Fiber Carbonates Gypsum Quartz Binder/Filler	30% 3% 67%
		LAYER 4 Roofing, Beige	No	None Detected	Cellulose Fiber Carbonates Gypsum Perlite Binder/Filler	85% 15%

Laboratory Report 0208885

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC2, LLC

Job# / P.O. #:

Address:

9830 S. 51ST ST. STE B109

Date Received:

09/27/2018

PHOENIX AZ 85044

Date Analyzed:

10/09/2018

Collected:

09/25/2018

Date Reported:

10/09/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT

EPA Method:

EPA 600/R-93/116

Address:

MIDDLE SCHOOL

Submitted By:

CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detected	s Asbestos d (%)	Туре	Non-Asbesto Constituent	
0208885-018	ROOF BLDG D	LAYER 1	No	None Detected	-	Synthetic Fiber	<1%
18		Roofing, White				Carbonates Quartz Binder/Filler	99%
		LAYER 2	No	None Detected		Fibrous Glass	25%
		Roofing, Gray/ Black				Carbonates Quartz Binder/Filler	75%
		LAYER 3	No	None Detected		Fibrous Glass	30%
		Roofing, Black				Carbonates Gypsum Quartz Binder/Filler	70%
		LAYER 4	No	None Detected		Cellulose Fiber	85%
		Roofing, Beige				Carbonates Gypsum Perlite Binder/Filler	15%
0208885-019	ROOF BLDG D	Flashing Caulk, Lt. Brown	Yes	Chrysotile	2%	Cellulose Fiber	<1%
19						Carbonates Quartz Binder/Filler	97%
0208885-020 20	ROOF BLDG D	Flashing Caulk, Lt. Brown	Yes	Chrysotile	3%	Carbonates	
						Quartz Binder/Filler	97%
0208885-021	ROOF BLDG D	Flashing Caulk, Lt. Brown	Yes	Chrysotile	2%	Cellulose Fiber	<1%
21						Carbonates Quartz Binder/Filler	97%

Laboratory Report 0208885

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected:

Address:

09/25/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

Date Reported:

EPA Method:

EPA 600/R-93/116

09/27/2018

10/09/2018

10/09/2018

CLIENT

Submitted By: Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0208885-022	ROOF BLDG D	LAYER 1	No	None Detected	Cellulose Fiber	<1%
22		Building Expansion Joint, White			Carbonates Gypsum Quartz Binder/Filler	99%
		LAYER 2 Building Expansion Joint, Brown	No	None Detected		
		building Expansion John, Brown			Carbonates Quartz	
					Binder/Filler	100%
0208885-023 23	ROOF BLDG D	LAYER 1	No	None Detected	Cellulose Fiber	<1%
		Building Expansion Joint, White			Carbonates Gypsum Quartz Binder/Filler	99%
		LAYER 2		None Detected	wildom indi	0070
		Building Expansion Joint, Brown			Carbonates Quartz	
					Binder/Filler	100%
0208885-024	ROOF BLDG D	LAYER 1	No i	None Detected	Cellulose Fiber	<1%
24		Building Expansion Joint, White			Carbonates Gypsum	
					Quartz Binder/Filler	99%
		LAYER 2	No I	None Detected	Dirigel/Filler	337 0
		Building Expansion Joint, Brown			Carbonates	
					Quartz Binder/Filler	100%

Laboratory Report

0208885

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: Address: EMC2, LLC

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected: 09/25/2018

Project Name: PAGE UNIFIED SCHOOL DISTRICT Address:

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

Date Reported:

EPA Method:

EPA 600/R-93/116 CLIENT

09/27/2018

10/09/2018

10/09/2018

Submitted By: Collected By:

Lab ID Client ID Sample Location

Layer Name / Sample Description

Asbestos Asbestos Type Detected

(%)

Non-Asbestos Constituents

Analyst - Kurt Kettler

Signatory - Lab Manager - Ken Scheske

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client att they will not be reproduced wholly or in part for advertising or other purposes over our signature or nonnection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

Rev. 09/01/08

CHAIN OF CUSTODY

EMC Labs, Inc. 9830 S. 51ST St., Ste B-109 Phoenix, AZ 85044 (800) 362-3373 Fax (480) 893-1726

LAB#:	207835
mam.	1 1

rat:)

Rec'd SEP 27 AN

COMPANY NAME:	EMC ² , LLC		BILL	TO:	(If Different Loc	\ \adda\
	9830 S. 51 ST ST,	STE B109		- - •	in Cilietelli FO(ation)
	PHOENIX, AZ 85	044				
CONTACT:	HOWARD LANGE					
hone/Fax:						
mail:						
low Accepting:			Price Quoted: \$	/ Sample	\$ / Laven	
OMPLETE I	TEMS 1-4: (Fail	ure to complete any	items may cause a delay i	n processing or an	alvzing vour san	- nnleet
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. DISPOSAL I		Dispose of Sar	DDIES At EMICL / IRefurn con	indee to mo at my	n) cm = m = - 1	0]
4 Project No.	(# <i>you do</i>)	iot indicate preference,	EIVIC WIII dispose of samples 30	days from analysis.)	
P.O. N	rage uv	litied Sch	ool District			
P.O. Numbe	r:		Project Number:			
EMC SAMPLE#	CLIENT SAMPLE#	DATE & TIME SAMPLED	LOCATION/MATERIAL	Samples	AIR SAMPLE INFO / CO	MMENTS
		JAMI LED	TYPE	Accepted Yes / No	ON OFF	FLOW RATE
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nquished by:		Date/Time	/-/	1/1/	Date/ Hitte	L // . II

ALL NEGATIVE

FIELD SAMPLE SHEET

Site: Page Unified School District;	Building:	Middle So	hool
-------------------------------------	-----------	-----------	------

Date: 9/28/2018; Inspector: Patricia Francis;

+/-	#	Material	Room / Area	Location
	Va	Brick Mortar	Roof B	Origin: -E/W: -N/S: AFF
	2/10			Origin: -E/W: -N/S: AEP.
_	3/11		Root C	Origin: -EAW: KPS: AED SW 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
_	12			Örigin: €W: (N/S: €F:) NW L'
-	5/13		Roof D	Origin: E/W: N/S: AEE
	14			Origin: E/W: N/\$5 AFF:
	7/15		Roof E	Origin: E/W: N/S: AFF:
_	8/16	\downarrow		Origin: E/W: N/S: AFC
	47	Roofing	Roof E	Origin: €NV: (II)3: AFF:
_	18			Origin: E/VC) N/6) AFF: AT 2' 40'
	19			Origin: EMV MVS: AFF:
_	20	Flashina		Origin: EW: N/S: AFE:
	21			Origin: NO AFE
-	22	\square		Origin: E/W: N/S: AFE) SE O J
				Origin: E/W: N/S: AFF:

Origin - Corner of room or start point - NW corner, NE Unit, etc.;

E/W or N/S - Insert footage and circle the direction you travel to the sample location;

AFF - Above finished floor - height of sample;

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected: 09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

Address:

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

10/01/2018 10/09/2018

Date Reported:

10/10/2018

CLIENT

EPA Method:

EPA 600/R-93/116

Submitted By: Collected By:

			Collec	cted By:	'	
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	i
0209012-001	PARAPET WALL ROOF B	Brick, Dk. Brown	No	None Detected	• •	
	NOOL B				Gypsum Quartz Carbonates Mica Binder/Filler	100%
0209012-002 2	PARAPET WALL ROOF B	Brick, Dk. Brown	No	None Detected		
~					Gypsum Quartz Carbonates Mica Binder/Filler	100%
0209012-003 3	PARAPET WALL ROOF C	Brick, Dk. Brown	No	None Detected	Cellulose Fiber	<1%
3					Gypsum Quartz Carbonates Mica Binder/Filler	99%
0209012-004 4	PARAPET WALL ROOF C	Brick, Dk. Brown	No	None Detected		
					Gypsum Quartz Carbonates Mica Binder/Filler	100%
0209012-005 5	PARAPET WALL ROOF D	Brick, Dk. Brown	No	None Detected		·
5					Gypsum Quartz Carbonates Mica Binder/Filler	100%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected: 09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

MIDDLE SCHOOL

Job# / P.O. #: Date Received:

Date Analyzed:

10/09/2018

10/01/2018

Date Reported:

10/10/2018

EPA 600/R-93/116

EPA Method: Submitted By:

CLIENT

			Colle	cted By:			
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	s Asbestos (%)	Гуре	Non-Asbestos Constituents	
0209012-006 6	PARAPET WALL ROOF D	Brick, Dk. Brown	No	None Detected		Gypsum	
		·				Quartz Carbonates Mica Binder/Filler	100%
0209012-007 7	PARAPET WALL ROOF E	Brick, Dk. Brown	No	None Detected		Cellulose Fiber	<1%
,						Gypsum Quartz Carbonates Mica	
					•	Binder/Filler	99%
0209012-008 8	PARAPET WALL ROOF E	Brick, Dk. Brown	No	None Detected		Cellulose Fiber	<1%
•						Gypsum Quartz Carbonates Mica Binder/Filler	99%
,						Diffuel/Filler	9970
0209012-009 9	PARAPET WALL ROOF B	Mortar, Dk. Tan	No	None Detected			
						Gypsum Quartz Carbonates Binder/Filler	100%
0209012-010	PARAPET WALL	Mortar, Dk. Tan	No	None Detected			
10 .	NOOI B					Gypsum Quartz Carbonates Binder/Filler	100%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected: 09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

Address:

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

10/09/2018

Date Reported:

10/10/2018

CLIENT

10/01/2018

EPA Method:

EPA 600/R-93/116

Submitted By: Collected By:

Lab ID Layer Name / Sample Asbestos Asbestos Type Non-Asbestos Location Sample Description Detected (%) Constituents Client ID 0209012-011 PARAPET WALL Mortar, Dk. Tan No None Detected ROOF C 11 Gypsum Quartz Carbonates Binder/Filler 100% 0209012-012 PARAPET WALL Mortar, Dk. Tan No None Detected ROOF C 12 Gypsum Quartz Carbonates Binder/Filler 100% PARAPET WALL 0209012-013 Mortar, Dk. Tan No None Detected ROOF D 13 Gypsum Quartz Carbonates Binder/Filler 100% 0209012-014 PARAPET WALL None Detected Cellulose Fiber <1% Mortar, Dk. Tan No ROOF D 14 Gypsum Quartz Carbonates Binder/Filler 99% PARAPET WALL None Detected Mortar, Dk. Tan 0209012-015 No ROOF E 15 Gypsum Quartz Carbonates Binder/Filler 100%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

09/28/2018 Collected:

Project Name: PAGE UNIFIED SCHOOL DIST

Address:

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed: 10/10/2018

Date Reported:

10/10/2018

EPA Method:

EPA 600/R-93/116

10/01/2018

CLIENT

Submitted By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbesto Detected	s Asbestos Type d (%)	Non-Asbesto Constituent	
0209012-016 16	PARAPET WALL ROOF E	Mortar, Dk. Tan	No	None Detected	Cellulose Fiber	<1%
					Gypsum Quartz Carbonates Binder/Filler	99%
0209012-017 17	PARAPET WALL ROOF E	LAYER 1 Roofing/Coating, White	No	None Detected		
				·	Carbonates Gypsum Quartz Binder/Filler	100%
		LAYER 2	No	None Detected	Fibrous Glass	25%
		Roofing, Black			Carbonates Quartz Binder/Filler	75%
		LAYER 3	No	None Detected	Fibrous Glass	30%
		Roofing, Black			Carbonates Quartz Binder/Filler	70%
		LAYER 4	No	None Detected	Cellulose Fiber	85%
		Roofing/Insulation, Beige/ Tan			Perlite Gypsum Quartz Binder/Filler	15%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected:

Address:

09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

MIDDLE SCHOOL

Job# / P.O. #: Date Received:

Date Analyzed: Date Reported: 10/09/2018

10/01/2018

10/10/2018

EPA Method: Submitted By: EPA 600/R-93/116 CLIENT

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbesto Constituent	-
0209012-018 18	PARAPET WALL ROOF E	LAYER 1 Roofing/Coating, White	No N	ione Detected	Synthetic Fiber Carbonates Gypsum Quartz Binder/Filler	2% 98%
		LAYER 2	No N	lone Detected	Fibrous Glass	25%
		Roofing, Black			Carbonates Quartz Binder/Filler	75%
•		LAYER 3	No N	Ione Detected	Fibrous Glass	35%
		Roofing, Black			Carbonates Quartz Binder/Filler	65%
		LAYER 4	No N	Ione Detected	Cellulose Fiber	85%
		Roofing/Insulation, Beige/ Tan			Perlite Gypsum Quartz Binder/Filler	15%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC², LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected:

Address:

09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

10/09/2018

Date Reported:

10/10/2018

CLIENT

10/01/2018

EPA Method: Submitted By: EPA 600/R-93/116

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0209012-019 19	PARAPET WALL ROOF E	LAYER 1 Roofing/Coating, White	No	None Detected		
		-			Carbonates Gypsum Quartz Binder/Filler	100%
	•	LAYER 2	No	None Detected	Fibrous Glass	30%
		Roofing, Black			Carbonates Quartz Binder/Filler	70%
	•	LAYER 3	No	None Detected	Fibrous Glass	30%
		Roofing, Black			Carbonates Quartz Binder/Filler	70%
		LAYER 4	. No	None Detected	Cellulose Fiber	85%
	e e	Roofing/Insulation, Beige/ Tan			Perlite Gypsum Quartz Binder/Filler	15%
0209012-020	PARAPET WALL ROOF E	Flashing Caulk, Gray	No	None Detected		
20	ROOI E				Silicone Quartz Binder/Filler	100%
0209012-021 21	PARAPET WALL ROOF E	Flashing Caulk, Gray	No	None Detected	Talc Cellulose Fiber Carbonates Gypsum	1% <1%
					Quartz Binder/Filler	98%

Laboratory Report 0209012

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:

EMC2, LLC

Address:

9830 S. 51ST ST. STE B109

PHOENIX AZ 85044

Collected:

09/28/2018

Project Name: PAGE UNIFIED SCHOOL DIST

Address:

MIDDLE SCHOOL

Job# / P.O. #:

Date Received:

Date Analyzed:

Date Reported:

EPA Method:

EPA 600/R-93/116 Submitted By: CLIENT

Collected By:

Lab ID **Client ID** Sample Location

ROOF E

Layer Name / Sample Description Asbestos Asbestos Type **Detected**

(%)

Non-Asbestos Constituents

0209012-022

22

PARAPET WALL

Flashing Caulk, Gray

No

None Detected

Talc

10/01/2018

10/09/2018

10/10/2018

2%

Carbonates Gypsum Quartz

Binder/Filler

98%

Analyst - Kurt Kettler

Signatory - Lab Manager - Ken Scheske

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an engoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

Page	of	
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CHAIN OF CUSTODY

EMC Labs, Inc. 9830 S. 51ST St., Ste B-109 Phoenix, AZ 85044 (800) 362-3373 Fax (480) 893-1726

LAB#:	75	13	αI	2
	20	′ ′	07	<u></u>

TAT:

lday OCT 01 A.M. Rec'd:

COMPANY NAME:	EMC², LLC 9830 S. 51 ST ST, STE B109			BILL TO:		(If Different Location)	
	PHOENIX, AZ 85044				······································		
ONTACT:	HOWARD LANGE						
hone/Fax:							
mail:							
ow Accepting:	VISA – MASTERCA	ARD	Price Quoted: \$	/ Sample	\$/ Laye	ers	
OMPLETE IT	EMS 1-4: (Failure	to complete an	y items may cause a delay i	n processing or ana	ılvzina vour s	amples)	
TURNAROU		ne Day RUSH]			10 Day]	,,	
* <u>Prior</u> confirmation	of turnaround time is req	uired			,1		
™Additional charge: ™Laboratory analys	s for rush analysis (please is may be subject to delay	call marketing de	partment for pricing details)				
. TYPE OF AN			M] [Lead] [Point Count]	(Fundi: ACC M.C.	Rulk Swok T	onol	
	NSTRUCTIONS:	Dispose of sa	mples at EMC] / [Return sar		Duik, Swab, 19 Synensel	apej	
	(If you do not i	indicate preferenc	e, EMC will dispose of samples 3	<u>0 days</u> from analysis.)	 		
4. Project Nam	ie: Page Unif	ied So	hool District - 1	Middle So	harl		
P.O. Numbe			Project Number:		· · · · · · · · · · · · · · · · · · ·		
EMC	CLIENT	DATE & TIME	LOCATION/MATERIAL	Samples	AIR SAMPLE INFO / COMMENTS		
SAMPLE#	SAMPLE#	SAMPLED	TYPE	Accepted	ON OFF	FLOW	
		9/28/18	2	Yes / No	<u> </u>	RATE	
(1/20/10	BULK-PLM	YN			
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mple Collector: (Print) tatrices to	anei	(Signature)_	fatu			
linguished by:	p	Date/Time:_p	///// Received by: Du	ana Federico	Date/Time	10/1/18	
elinquished by: Diana Federico		_ Date/Time: / 0	1,//8 Received by: //	T71/	Date/Time 16/1///		
elinquished by:		 _ Date/Time	Received by:		Date/Time:		
In the event of any	dispute between the abo	ove parties for the	se services or otherwise, parties	agree that jurisdiction			