

Thatcher High School Limited Exterior Asbestos Report



3401 West 2nd Avenue
Thatcher, AZ 85552

Prepared for:

Thatcher Unified School District
3490 West Main Street
Thatcher, Arizona 85552

Prepared by:

RedTree CONSULTING, LLC.
2942 North 24th Street Suite 114
Phoenix, Arizona 85016
Ph 602.989.2433

November 30, 2017

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SECTION 1

LIMITATIONS

LIMITATIONS

The conclusions and results contained herein are based solely on the information presented in this report and are for the sole use of the Client exclusively and are subject to the terms and conditions of "The Contract". No other person or entity may rely on this report without the prior written consent of RedTree Consulting, LLC (RTC).

The sampling, testing, and observations described in the report represent conditions only at the specified times and locations. Additional materials or information which were hidden, undiscovered, inaccessible, or are not a part of the finding presented herein, would result in the modification of the conclusions and recommendations made herein. Any response action guidelines are based solely on the findings contained herein. The response action guidelines are presented as a courtesy and are not to be considered a complete or detailed set of specifications. RTC performed these services using the degree of care and skill ordinarily exercised under similar conditions by reputable members of the profession practicing in the same or similar circumstances.

Please note, with regard to laboratory analysis of suspect bulk asbestos-containing materials: The Environmental Protection Agency (EPA) Method 600/R-93-116, Polarized Light Microscopy (PLM) is used for the testing of bulk building materials for asbestos by performing a visual estimation. This method is the most widely used method for estimating asbestos in bulk building materials and works well for most sample types. However, it might require a more detailed method such as point counting for accurate estimation of asbestos in samples with low asbestos concentration. This method is also not applicable for samples containing large amounts of fine fibers below the resolution of the PLM (<0.3 microns). Typically, the asbestos fibers present in non-friable organically bound (NOB) materials are often less than 0.1 microns in diameter and therefore may cause the PLM method to yield low estimates or even false negative results.

RTC suggests that Transmission Electron Microscopy (TEM) Chatfield Semi-Quantitative EPA Method 600/R-93-116 be used to confirm all negative results of NOB materials. This method is particularly useful to reduce the possibility of false negatives in NOBs and to provide additional quantitative data for samples which contain low levels of asbestos. The TEM method is available at additional cost and is done only at the client's request.

RTC's scope of service for this report did not include the inspection for, or identification of fungi, lead paint, or any other hazardous or controlled substances not specifically identified herein.

RTC is not responsible for the accuracy of information provided by others, or for conditions or consequences arising from relevant facts that were withheld, concealed, undiscovered, or not fully disclosed. RTC is not a law firm and therefore, makes no representations regarding any potential liability of any person or entity for site conditions. Further, RTC is not qualified to present medical advice. If any present or future health issues are in question, it is recommended that the findings in this report be presented to a qualified medical professional for evaluation.

SECTION 2

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This limited asbestos survey report contains the results of a limited AHERA-style asbestos inspection conducted for Thatcher Unified School District (TUSD). The limited asbestos inspection was conducted on the exterior at Thatcher High School located at 601 North 3rd Avenue in Thatcher, Arizona 85552. RTC was authorized by Thatcher Unified School District, to perform the limited asbestos inspection. RTC was informed that the High School is to be weatherized.

The limited asbestos inspection of the building was conducted on October 25, 2017 by Mr. Michael Crow, an accredited asbestos building inspector. TUSD outlined the areas and the materials scheduled to be disturbed during the upcoming renovation activities, TUSD instructed RTC to collect bulk samples of all affected materials to be disturbed, and instructed RTC to have those samples analyzed for the presence of asbestos fibers by a qualified laboratory.

A total of twenty-four (24) bulk samples were collected from the suspect building materials within the outlined areas of the building. The suspect bulk samples were submitted to EMLab P&K, LLC (EMLab) for analysis using Polarized Light Microscopy (PLM) methods. EMLab used the methods prescribed in Method 40 CFR, Part 763, in the Code of Federal Register in analyzing bulk samples. EMLab is certified by the National Institute of Standards and Technology (NIST) as adhering to and in compliance with the National Voluntary Laboratory Accreditation Program (NVLAP) and holds the certification number 500031-0. The suspect asbestos bulk samples were collected and submitted to the laboratory using established chain of custody procedures. Bulk samples were collected utilizing safety and health practices as required by the Occupational Safety and Health Administration (OSHA).

Below are the suspect building materials that were sampled during the limited asbestos inspection:

- White Block Mortar
 - Gray Mortar with Pink Paint
 - Gray/Black Block with Pink Paint
- Split Face Mortar
 - Red Mortar
- White Sealant
 - White Sealant
- Tan Sealant
 - Tan Sealant with Brown Paint
- Roof Term Bar Sealant
 - Gray Sealant
- Grey Repair Patch Roof Plastic
 - Black Roofing Material with Silver Paint
- Big Rock Roof Core
 - Black Roofing Tar
 - Black Roofing Tar and Felt (X 3 Layers)
 - Brown Fibrous Material
 - Black Roofing Felt (X 2 Layers)
 - Yellow Foam
- Small Rock Roof Core
 - Black Roofing Tar and Felt Material with Stones
 - Brown Fibrous Material

The building materials sampled were reported by laboratory PLM analysis to be “none detected” for asbestos.

Based on the referenced laboratory analytical data, there are no further recommendations at this time. If any un-sampled suspect building materials are discovered during the restoration activities, those building materials should be properly sampled by a certified inspector and analyzed by a qualified laboratory prior to their disturbance.

All documentation is provided to TUSD, and should be retained in a permanent record. Should you have any questions regarding the procedures that were followed on this project, please contact me at any time. Thank you for the opportunity to provide these environmental consulting services.



Michael L. Crow
Managing Partner

AHERA Asbestos Building Inspector

AHERA Certificate Number: 25511-3485861-105007

Expires: March 23, 2018

SECTION 3

SITE MAP

SITE MAP

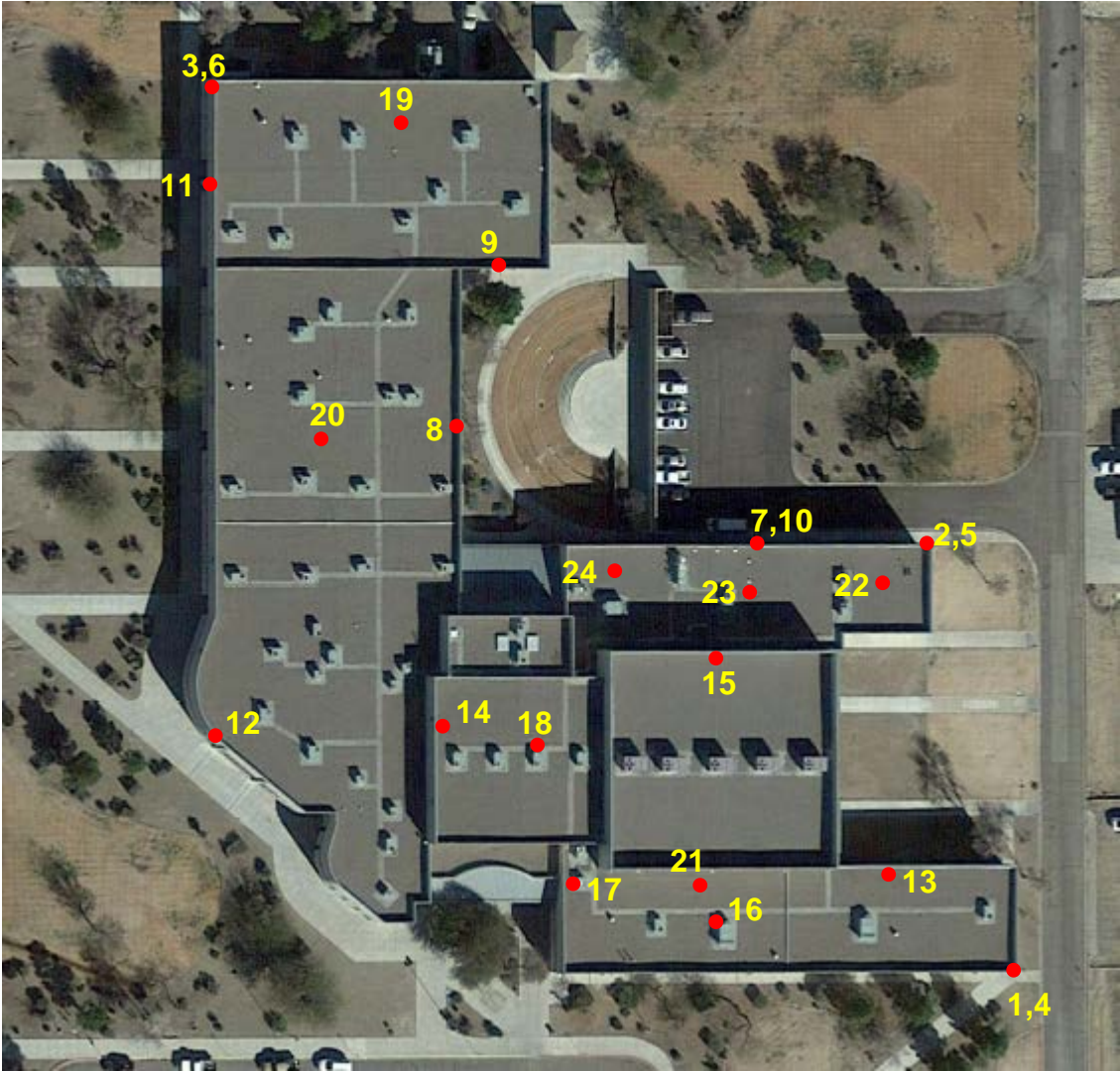


Site Map of Thatcher High School.

SECTION 4

PLM BULK SAMPLE LOCATION MAP

PLM BULK SAMPLE LOCATION MAP



SECTION 5

PLM LABORATORY ANALYSIS REPORT



Report for:

Mike Crow
Red Tree Consulting, LLC
7845 E. Redfield Rd. Suite 100
Scottsdale, AZ 85260

Regarding: Project: Thatcher Unified; Thatcher High School
EML ID: 1821947

Approved by:

Dates of Analysis:
Asbestos PLM: 11-01-2017

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Red Tree Consulting, LLC
 C/O: Mike Crow
 Re: Thatcher Unified; Thatcher High School

Date of Sampling: 10-25-2017
 Date of Receipt: 10-27-2017
 Date of Report: 11-01-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 24

Total Samples Analyzed: 24

Total Samples with Layer Asbestos Content > 1%: 0

Location: 1, White Block Mortar

Lab ID-Version‡: 8531885-1

Sample Layers	Asbestos Content
Gray Mortar with Pink Paint	ND
Gray/Black Block with Pink Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 2, White Block Mortar

Lab ID-Version‡: 8531886-1

Sample Layers	Asbestos Content
Gray Mortar with Pink Paint	ND
Gray/Black Block with Pink Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 3, White Block Mortar

Lab ID-Version‡: 8531887-1

Sample Layers	Asbestos Content
Gray Mortar with Pink Paint	ND
Gray/Black Block with Pink Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 4, Split Face Mortar

Lab ID-Version‡: 8531888-1

Sample Layers	Asbestos Content
Red Mortar	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. 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. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Red Tree Consulting, LLC
C/O: Mike Crow
Re: Thatcher Unified; Thatcher High SchoolDate of Sampling: 10-25-2017
Date of Receipt: 10-27-2017
Date of Report: 11-01-2017**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 5, Split Face Mortar**

Lab ID-Version‡: 8531889-1

Sample Layers	Asbestos Content
Red Mortar	ND
Sample Composite Homogeneity: Good	

Location: 6, Split Face Mortar

Lab ID-Version‡: 8531890-1

Sample Layers	Asbestos Content
Red Mortar	ND
Sample Composite Homogeneity: Good	

Location: 7, White Sealant

Lab ID-Version‡: 8531891-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity: Good	

Location: 8, White Sealant

Lab ID-Version‡: 8531892-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity: Good	

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C/O: Mike Crow
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Date of Receipt: 10-27-2017
Date of Report: 11-01-2017**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 9, White Sealant**

Lab ID-Version‡: 8531893-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Location: 10, Tan Sealant

Lab ID-Version‡: 8531894-1

Sample Layers	Asbestos Content
Tan Sealant with Brown Paint	ND
Sample Composite Homogeneity:	Good

Location: 11, Tan Sealant

Lab ID-Version‡: 8531895-1

Sample Layers	Asbestos Content
Tan Sealant with Brown Paint	ND
Sample Composite Homogeneity:	Good

Location: 12, Tan Sealant

Lab ID-Version‡: 8531896-1

Sample Layers	Asbestos Content
Tan Sealant with Brown Paint	ND
Sample Composite Homogeneity:	Good

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Date of Sampling: 10-25-2017
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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 13, Roof Term Bar Sealant**

Lab ID-Version‡: 8531897-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 14, Roof Term Bar Sealant

Lab ID-Version‡: 8531898-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 15, Roof Term Bar Sealant

Lab ID-Version‡: 8531899-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 16, Grey Repair Patch Roof Plastic

Lab ID-Version‡: 8531900-1

Sample Layers	Asbestos Content
Black Roofing Material with Silver Paint	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

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Date of Sampling: 10-25-2017
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 Date of Report: 11-01-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 17, Grey Repair Patch Roof Plastic**

Lab ID-Version‡: 8531901-1

Sample Layers	Asbestos Content
Off-White Sealant with Silver Paint	ND
Black Roofing Material with Silver Paint	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 18, Grey Repair Patch Roof Plastic

Lab ID-Version‡: 8531902-1

Sample Layers	Asbestos Content
Black Roofing Material with Silver Paint	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Location: 19, Big Rock Roof Core

Lab ID-Version‡: 8531903-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Yellow Foam	ND
Composite Non-Asbestos Content:	35% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

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Date of Sampling: 10-25-2017
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Date of Report: 11-01-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 20, Big Rock Roof Core**

Lab ID-Version‡: 8531904-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Yellow Foam	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 21, Big Rock Roof Core**

Lab ID-Version‡: 8531905-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Yellow Foam	ND
Composite Non-Asbestos Content:	20% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 22, Small Rock Roof Core

Lab ID-Version‡: 8531906-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt Material with Stones	ND
Brown Non-Fibrous Material	ND
Black Roofing Tar and Felt	ND
Yellow Foam	ND
Black Roofing Felt	ND
Yellow Foam	ND
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 23, Small Rock Roof Core

Lab ID-Version‡: 8531907-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt Material with Stones	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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Date of Sampling: 10-25-2017
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 Date of Report: 11-01-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: 24, Small Rock Roof Core**

Lab ID-Version‡: 8531908-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt Material with White Pebbles	ND
Brown Fibrous Material	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar	ND
Yellow Foam	ND
Black Roofing Felt	ND
Yellow Foam	ND
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

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SECTION 6

GENERAL NOTES/EXCLUSIONS

GENERAL NOTES/EXCLUSIONS

- TUSD outlined the areas and the materials scheduled to be disturbed during the upcoming renovation activities, instructed RTC to only collect bulk samples of the outlined materials, and to have those samples analyzed for the presence of asbestos fibers by a qualified laboratory.
- This was a limited inspection and those areas and materials not specifically identified in this report were not inspected; nor any area outside the specific area described herein.
- If any un-sampled suspect building materials are discovered during the renovation activities, those materials should be properly sampled by a certified inspector and analyzed by a qualified laboratory prior to their disturbance.

SECTION 7

INSPECTOR CERTIFICATIONS

THE ASBESTOS INSTITUTE

Certifies that **MICHAEL CROW**

has attended the EPA approved course
AHERA Building Inspector Refresher
and successfully passed and completed
the competency exam.

This training meets all requirements for asbestos
accreditation under TSCA Title II.



Issue Date : 23-Mar 2017

Expiration Date : 23-Mar 2018


Approved Instructor

SECTION 8

LABORATORY CERTIFICATION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 500031-0

EMLab P&K

Phoenix, AZ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2017-01-01 through 2017-12-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMLab P&K
1501 W. Knudsen Dr.
Phoenix, AZ 85027-1307
Mr. Dan Shelby
Phone: 623-298-1015
Email: dshelby@emlabpk.com
<http://www.emlab.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 500031-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, reading "Dana S. Laman", is positioned above a horizontal line.

For the National Voluntary Laboratory Accreditation Program