

85 Stiles Road, Suite 201 Salem, NH 03079 603-458-5247

Steve Minassian Project Reference: 01288.004
Axiom Partners, Inc. Laboratory Batch #: 1616568
545 Salem St. Date Samples Received: 06/22/2016
Wakefield MA 01880 Date Samples Analyzed: 06/22/2016
Date of Final Report: 06/22/2016

SAMPLE IDENTIFICATION:

Eight (8) samples from Consentino Middle School; Haverhill, MA project were submitted by HR Forgione on 2016/06/22

This bulk sample(s) was delivered to Optimum Analytical Consulting, LLC (Optimum) located in Salem, New Hampshire for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-600/M4-82-020, EPA-600/ R-93-116). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25mm) may not be detected by the PLM method. Floor tile and other resinously bound material may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additional analytical methods may be required. Optimum recommends using Transmission Electron Microscopy (TEM) for a more definitive analysis.

Optimum will retain all samples for a minimum of three months. Further analysis or return of samples must be requested within this three month period to guarantee their availability. This report may not be reproduced except in full, without the written approval of Optimum Analytical and Consulting, LLC.

Use of the NVLAP and AIHA Logo in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Point Count = .25%, 1000 Point Count = 0.1%; Present or Absent are observations made during a qualitative analysis.

This report is considered preliminary until signed by both the Laboratory Analyst and Laboratory Director or Supervisor. If you have any questions regarding this report, please do not hesitate to contact us.

Jamie L. Noel

Laboratory Director

Kristina Scaviola Laboratory Supervisor

NVLAP Lab ID#: 101433-0

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85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT: Axiom Partners, Inc.
ADDRESS: 545 Salem St.

CONTACT: Wakefield MA 01880
CONTACT: Steve Minassian

PLM Analysis

LOCATION: Consentino Middle School; Haverhill, MA

ORDER #: 1616568
PROJECT #: 01288.004
DATE COLLECTED: 06/22/2016
COLLECTED BY: HR Forgione
DATE RECEIVED: 06/22/2016
ANALYSIS DATE: 06/22/2016
REPORT DATE: 06/22/2016
ANALYST: Jamie Noel

				LYSI:	Jamie Noei	
	REPO	ORT OF AN	ALYSIS			
Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1616568-001	Library Behind Bookselves					
062216-45-01A	4" Brown Cove Base,	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos Detected		Total % Non-Asbestos:	100.0%
1616568-002	Library Behind Bookselves					
062216-45-01B	4" Brown Cove Base,	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos Detected		Total % Non-Asbestos:	100.0%
1616568-003 062216-45-02A	Library Behind Bookselves 4" Brown Cove Base Adhesive, Brown Note: Contaminated by white powder/fibrous material attached to cove base adhesive.	LAYER 1 100%	Chrysotile	2%	Cellulose Fiber Binder/Filler	1% 97%
	То	tal % Asbestos:	2.0%		Total % Non-Asbestos: 98.0%	
1616568-004 062216-45-02B	Library Behind Bookselves 4" Brown Cove Base Adhesive, Brown Note: Positive Stop	LAYER 1 100%				
1616568-005	Library Exposed Walls					
062216-45-03A	4" Dark Brown Cove Base,	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos Detected		Total % Non-Asbestos:	100.0%
1616568-006 062216-45-03B	Library Exposed Walls 4" Dark Brown Cove Base,	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos Detected		Total % Non-Asbestos:	100.0%
1616568-007 062216-45-04A	Library Exposed Walls 4" Dark Brown Cove Base Adhesive, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos [Detected	Total % Non-Asbestos:	100.0%
1616568-008 062216-45-04B	Library Exposed Walls 4" Dark Brown Cove Base Adhesive, Tan	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
	То	tal % Asbestos:	No Asbestos [Detected	Total % Non-Asbestos:	100.0%

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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Axiom Partners, Inc. ADDRESS: 545 Salem St.

CONTACT: Wakefield MA 01880
CONTACT: Steve Minassian

PLM Analysis

LOCATION: Consentino Middle School; Haverhill, MA

 ORDER #:
 1616568

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 01288.004

 DATE COLLECTED:
 06/22/2016

 COLLECTED BY:
 HR Forgione

 DATE RECEIVED:
 06/22/2016

 ANALYSIS DATE:
 06/22/2016

 REPORT DATE:
 06/22/2016

ANALYST:

REPORT OF ANALYSIS

Laboratory IDSample LocationLayer No.AsbestosNon-AsbestosSample No.DescriptionLayer %Type(%)Components(%)

Analyst Signatory:

Jamie Noel

NV (A)

Lab Code: 101433-0

Jamie Noel

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BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Axiom Partners, Inc. ADDRESS: 545 Salem St.

CITY / STATE / ZIP: Wakefield MA 01880

CONTACT: Steve Minassian **DESCRIPTION:** PLM Analysis

LOCATION: Consentino Middle School; Haverhill, MA ORDER #: 1616568 01288.004 PROJECT #: **DATE COLLECTED:** 06/22/2016 COLLECTED BY: HR Forgione DATE RECEIVED: 06/22/2016 **ANALYSIS DATE:** 06/22/2016 REPORT DATE: 06/22/2016 ANALYST: Jamie Noel

11016568 85 Stiles Road, Suite 201 OPTIMUM ANALYTICAL AND CONSULTING, L Salem, NH 03079 603-458-5247 Chain of Custody Analysis & TAT: 4-6 Hour 48 Hour 24 Hour Standard (3-5) Standard (6-10) Comments (please indicate other test specific information here): POSITIVE STOT K PCM Mold Not Available Not Available Other: (TEM. PCB, etc) Not Available hforgione@ oxiomenu.com Sampler: HR FORGIONE Email: Positive Stop Analysis sminassiano axiomenvicam yes No Sample Location: HAVERHILL MA Project Manager: SE MINASSIAN Phone Number: 731-258-3311 CONSENTINO MIDDLE SCHOOL Project Information: Company Name and Address: AxioN PARTNERS AKIOM PROSECT 01288.004 545 SALEM ST WAKEFIELD MA 01880 Sample Number Description and location Time and Temperature at collection 4" BROWN COVE BASE - LIBRARY BEHIND 062216-45-014 BOOKSHELVES 4" BROWN COVE BASE -OIB 4" BROWN COVE BASE OZA ADHESIVE 4" BROWN COVE BASE 02B ADHESIVE LIBRARY EXPOSED DARK BROWN COVE 034 BASE WALLS 4" DARK BROWN COVE 038 BASE DARK BEDWAY COVE 04A BASE ADHESIVE DARK BROWN COVE 048 BASE ADHESIVE

Relinquished by: NR Falgiena Date Time 1507 Received by: MRM Date OF Time 15:00