

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

Steve Minassian Project Reference: 01288.004
Axiom Partners, Inc. Laboratory Batch #: 1616602
545 Salem St. Date Samples Received: 06/23/2016
Wakefield MA 01880 Date Samples Analyzed: 06/24/2016
Date of Final Report: 06/24/2016

SAMPLE IDENTIFICATION:

Three (3) samples from Consentino - 685 Washington Street; Haverhill, MA project were submitted by Steve Minassian on 2016/06/23

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

PAGE: 1 of 3



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 - 685 Washington Street; Haverhill, MA

ORDER #: 1616602

PROJECT #: 01288.004

DATE COLLECTED: 06/23/2016

COLLECTED BY: Steve Minassian

DATE RECEIVED: 06/23/2016

ANALYSIS DATE: 06/24/2016

REPORT DATE: 06/24/2016

ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type (%)	Non-Asbestos Components	(%)
1616602-001	Library - South/Hall Wall Behind Bookshelf				
062316-03-01A	LAYER 1 Brown Cove Base,	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Brown Cove Base Adhesive, Brown	LAYER 2 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Tan Layer on Top of Adhesive,	LAYER 3 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	٦	Total % Asbestos:	No Asbestos Detected	Total % Non-Asbestos	: 100.0%
1616602-002 062316-03-01B	Library - West Wall at Door Bump O LAYER 1 Brown Cove Base.	ut LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Brown Cove Base Adhesive, Brown	LAYER 2 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Tan Layer on Top of Adhesive,	LAYER 3 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 4 White Bulk Material,	LAYER 4 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	7	Total % Asbestos:	No Asbestos Detected	Total % Non-Asbestos	: 100.0%
1616602-003	Library - From Bag				
062316-03-01C	LAYER 1 Brown Cove Base,	LAYER 1 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 2 Brown Cove Base Adhesive, Brown	LAYER 2 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	LAYER 3 Tan Layer on Top of Adhesive,	LAYER 3 100%	None Detected	Cellulose Fiber Binder/Filler	1% 99%
	7	Total % Asbestos:	No Asbestos Detected	Total % Non-Asbestos	: 100.0%

Analyst Signatory: Jamie Noel Jan 2.0/1

Lab Code: 101433-0

PAGE: 2 of 3



BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

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LOCATION: Consentino - 685 Washington Street; Haverhill, MA

ORDER #: 1616602
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ANALYSIS DATE: 06/24/2016 **REPORT DATE:** 06/24/2016 **ANALYST:** Jamie Noel



AXIOM PARTNERS 545 SALEM STREET WAKEFIELD, MA 01880 PHONE: 781.213.9198 FAX: 781.213.6992

LABORATORY ORDER #:

Sample(s) received in good condition? [Y] [N] Discernable field blank submitted? [Y] [N]

Asbestos Analysis - Chain of Custody Form

Sampled by:	Steve Minassian	Date Collected: 06.23.16	
Project Name:	Consentino		
Project Site:	oject Site: 685 Washington Street Haverhill MA		
Project ID/Number:	01288.004		
Special Lab Instructions:	email results to hforgione@axiomenv.com and sminassian@axiomenv.com		
	Please analyze all layers of everything you so no positive stop. Go directly to point count on	ee in the bag, including paint, if any. Analyze all samp anything that can be point counted.	

TURNAROUND TIME - If turnaround time is not chosen standard turnaround time applies (6 + Days)

TYPE OF ASBESTOS ANALYSIS: EPA 600/R-93/116

SAMPLE NO. SAMPLE DESCRIPTION		SAMPLE LOCATION	COMMENTS
062316-03-01A	Brown Cove Base and Adhesive	Library – South/Hall Wall Behind Bookshelf	
062316-03-01B	Brown Cove Base and Adhesive	Library – West Wall at Door Bump Out	
062316-03-01C	Brown Cove Base and Adhesive	Library – From Bag	

Relinquished: Heather R. Forgione Date: 06.23.2016 Time: 1730

Received: Date: 06.23.2016 Time: 1730

Page 1 of 3