

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

Steve Minassian Project Reference: 01288.004
Axiom Partners, Inc. Laboratory Batch #: 1615413
545 Salem St. Date Samples Received: 04/14/2016
Wakefield MA 01880 Date Samples Analyzed: 04/15/2016
Date of Final Report: 04/15/2016

SAMPLE IDENTIFICATION:

Eight (8) samples from Consentino, Haverhill, MA project were submitted by Heather R. Forgione on 2016/04/14

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



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
 ORDER #: 1615413

 CLIENT:
 Axiom Partners, Inc.
 PROJECT #: 01288.004

 ADDRESS:
 545 Salem St.
 DATE COLLECTED: 04/13/2016

CITY / STATE / ZIP: Wakefield MA 01880 COLLECTED BY: Heather R. Forgione

CONTACT: Steve Minassian DATE RECEIVED: 04/14/2016
DESCRIPTION: PLM Analysis ANALYSIS DATE: 04/15/2016
LOCATION: Consentino, Haverhill, MA REPORT DATE: 04/15/2016

OCATION: Consentino, Haverhill, MA

ANALYST: Jamie Noel

REPORT OF ANALYSIS Laboratory ID Sample Location Layer No. **Asbestos Non-Asbestos** Sample No. Description Layer % Components **Type** (%) (%) 1615413-001 Library 041316-45-01A LAYER 1 LAYER 1 None Detected Cellulose Fiber 1% Leveling Compound, Gray/White 100% Non-Fibrous Material 99% LAYER 2 Chrysotile 2% Cellulose Fiber 2% LAYER 2 Mastic. Tan 100% Non-Fibrous Material 96% Total % Asbestos: 2.0% Total % Non-Asbestos: 98.0% 1615413-002 Library LAYER 1 None Detected Cellulose Fiber 1% 041316-45-01B LAYER 1 Leveling Compound, Gray/White 100% Non-Fibrous Material 99% LAYER 2 LAYER 2 Mastic, Tan 100% Note: Positive Stop Total % Asbestos: No Asbestos Detected Total % Non-Asbestos: 100.0% 1615413-003 Library Above Central Support Beam LAYER 1 Chrysotile 2% Cellulose Fiber 10% 041316-45-02A Plaster, Gray 100% Non-Fibrous Material 88% Total % Asbestos: 2.0% Total % Non-Asbestos: 98.0% 1615413-004 Library Above Central Support Beam LAYER 1 Plaster, Positive Stop 041316-45-02B 100% Library Above Central Support Beam 1615413-005 LAYER 1 041316-45-02C Plaster, Positive Stop 100% 1615413-006 Hall at Room 1 041316-45-03A Spray On Fireproofing, Gray LAYER 1 Chrysotile 15% Cellulose Fiber 45% Fibrous Glass 10% 100% Non-Fibrous Material 30% Total % Asbestos: Total % Non-Asbestos: 85.0% 15.0% 1615413-007 Hall at Room 1 041316-45-03B Spray on Fireproofing, LAYER 1 Note: Positive Stop 100%

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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 ORDER #: 1615413 PROJECT #: 01288.004 Axiom Partners, Inc. **DATE COLLECTED:** 04/13/2016 545 Salem St.

COLLECTED BY: Heather R. Forgione Wakefield MA 01880 CITY / STATE / ZIP:

DATE RECEIVED: 04/14/2016 Steve Minassian CONTACT: ANALYSIS DATE: 04/15/2016 **DESCRIPTION:** PLM Analysis REPORT DATE: 04/15/2016 LOCATION: Consentino, Haverhill, MA ANALYST: Jamie Noel

REPORT OF ANALYSIS

Sample Location Laboratory ID Layer No. **Asbestos Non-Asbestos** Sample No. Description Layer % **Type** (%) Components (%)

1615413-008 Hall at Room 1 LAYER 1 041316-45-03C Spray on Fireproofing,

Note: Positive Stop 100%

> **Analyst** Signatory:

CLIENT:

ADDRESS:

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.

CONTACT: Wakefield MA 01880
CONTACT: Steve Minassian

PLM Analysis

LOCATION: Consentino, Haverhill, MA

Sampled by:

ORDER #: 1615413
PROJECT #: 01288.004
DATE COLLECTED: 04/13/2016

COLLECTED BY: Heather R. Forgione

 DATE RECEIVED:
 04/14/2016

 ANALYSIS DATE:
 04/15/2016

 REPORT DATE:
 04/15/2016

 ANALYST:
 Jamie Noel



HR FORGIONE

AXIOM PARTNERS 979 MAIN STREET WAKEFIELD, MA 01880 PHONE: 781.213.9198 FAX: 781.213.6992

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

Date Collected: 04.13.16

Asbestos Analysis - Chain of Custody Form

Project Name:	CONSENTINO, H	AVERHILL 1	nA				
Project ID/Number:	01288.004		minassiai	1			
Special Lab Instruct	ions: Positive sto	p; email results to			and hforgio	ne@axiomenv	.com
TURNAROUND T	IME – If turnaround tir	ne is not chosen sta	ndard turnaro	und time	applies (6 + I	Days)	
	Hours 12 Hours	24 Hours 14	B Hours □ 7	2 Hours	☐ 4 Days	☐ 5 Days	☐ 6-10 Days
TYPE OF ASBES	TOS ANALYSIS: EP	A 600/R-93/116					
SAMPLE NO.	SAMPLE DESCRIPTION			SA	COMMENTS		
041316-45-01A	GREY WHITE LEVELING COMPOUND			LIBRARY			
018	V	!			1		
02A	PLASTER		41.		ABOVE PORT BE	CENTRAL	
028	/				/		
ORC	1				1		
03A	SPRAY ON F	IREPROOFING	,	HALL (@ ROOM	1	
038		0			1		
030	2				1		
Relinquished:	Huller K	· Fagione			41316		716
Relinquished:	9		Date:	4	4/16		30
Received			Date:	-		Time:	

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