

**ProScience Analytical Services, Inc.**

22 Cummings Park ~ Woburn, MA 01801 ~ 781-935-3212 ~ FAX 781-932-4857, [www.proscience.net](http://www.proscience.net)

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January 20, 2016

Kevin Donovan  
5 Alfred Circle  
Bedford, MA 01730

Dear Kevin,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed based on (but not in compliance with) a combination of the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples and an in-house technique. This method is used for the determination of weight percent of asbestos in soil. This method is not approved by any agency, federal or state.

The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips CM-12 or 420 transmission electron microscope equipped with selected area electron diffraction (SAED) and an EVEX energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of material lost by grinding and sieving, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Sincerely,

Mark Derosier   
Senior Analyst  
Transmission Electron Microscopy

Aimee Cormier  
Laboratory Director

Enclosure:  
Batch # NT15568  
Client Project # 2014001.002  
NVLAP ID #200090.0

# Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801

ELAP ID #11632

NVLAP ID #200090

## TEM Soil Sample Analysis Summary Sheet

Batch# NT15568  
 PASI# 1787  
 Client Mabbett & Associates  
 Job# 2014001.002  
 P.O.# N/A  
 Ref. Jamaica Plain VA - Soil Samples  
 Analyst Mark Derosier

Lab ID	Client ID	Material	Location	Grams Smpl	% Org	% Carb /Rocks	% Non Fib Non Ash	Type	SAED	EDS	% Asbestos
NT-118811	JS-04	Soil	Building #1 C-wing sub-basement crawl space	0.5451	1.76	45.09	53.15	Chrys	X		TR
NT-118812	JS-10	Soil	Building #1 D-wing sub-basement crawl space	0.6079	1.25	11.83	82.58	Chrys	X		4.35
NT-118813	JS-11	Soil	basement Fire alarm room sub-basement crawl space	0.6417	0.50	31.21	68.29	Chrys	X		TR
NT-118814	JS-12	Soil	Building #1 D-wing sub-basement crawl space	0.509	1.49	22.87	75.64				ND
NT-118815	JS-14	Soil	Building #1 D-wing sub-basement crawl space	0.4885	0.61	31.20	68.19	Chrys	X		TR
NT-118816	JS-17	Soil	Building #1 D-wing sub-basement crawl space	0.5158	1.20	23.11	75.69	Chrys	X		TR
NT-118817	JS-19	Soil	Building #1 D-wing sub-basement crawl space	0.6109	1.11	33.70	65.18	Chrys	X		TR
NT-118818	JS-20	Soil	Building #1 E-wing sub-basement crawl space	0.621	0.84	29.90	69.26	Chrys	X		TR
NT-118819	JS-21	Soil	Building #1 E-wing sub-basement crawl space	0.5498	0.58	21.97	75.90	Chrys	X		1.55
NT-118820	JS-24	Soil	Building #1 E-wing sub-basement crawl space	0.5741	0.77	29.68	69.55	Chrys	X		TR
NT-118821	JS-26	Soil	Building #1 E-wing sub-basement crawl space	0.6197	0.71	17.19	80.46	Chrys	X		1.64
NT-118822	JS-27	Soil	Building #1 E-wing sub-basement crawl space	0.6452	2.09	17.56	76.33	Chrys	X		4.02
NT-118823	JS-28	Soil	Building #1 E-wing sub-basement crawl space	0.5227	1.36	35.13	63.52	Chrys	X		TR
NT-118824	JS-29	Soil	Building #1 E-wing sub-basement crawl space	0.5373	2.20	20.25	73.68	Chrys	X		3.88
NT-118825	JS-30	Soil	Building #1 E-wing sub-basement crawl space	0.5994	1.47	24.32	74.21	Chrys	X		TR

Ch = Chrysotile  
 Am = Amosite  
 A/T = Actinolite/Tremolite  
 Cr = Crocidolite  
 An = Anthrophyllite

TR = Trace = <1%  
 ND = None detected  
 SAED = Verified asbestos SAED pattern  
 EDAX = Elements detected using EDS

# ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801

ELAP ID #11632

NVLAP ID #200090

## TEM Soil Sample Analysis Summary Sheet

Batch# NT15568  
 PASI# 1787  
 Client Mabbett & Associates  
 Job# 2014001.002  
 P.O.# N/A  
 Ref. Jamaica Plain VA - Soil Samples  
 Analyst Mark Derosier

Lab ID	Client ID	Material	Location	Grams Smpl	% Org	% Carb /Rocks	% Non Fib Non Asb	Type	SAED	EDS	% Asbestos
NT- 118826	JS-31	Soil	Building #1 E-wing sub-basement crawl space	0.5636	1.70	31.62	63.34	Chrys	X		3.33
NT- 118827	JS-32	Soil	Building #1 E-wing sub-basement crawl space	0.5892	1.26	13.37	83.66	Chrys	X		1.71
NT- 118828	JS-33	Soil	Building #1 E-wing sub-basement crawl space	0.6822	0.81	15.38	83.82				ND
NT- 118829	JS-39	Soil	Building #1 E-wing sub-basement crawl space	0.545	1.45	19.85	77.12	Chrys	X		1.57
NT- 118830	JS-41	Soil	Building #1 E-wing sub-basement crawl space steam alley	0.5742	1.95	13.22	83.13	Chrys	X		1.70
NT- 118831	JS-42	Soil	Building #1 E-wing sub-basement - storage room	0.5469	3.29	13.79	82.92				ND

Ch = Chrysotile

Am = Amosite

AT = Actinolite/Tremolite

Cr = Crocidolite

An = Anthophyllite

TR = Trace = <1%

ND = None detected

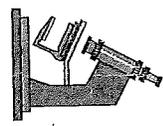
SAED = Verified asbestos SAED pattern

EDAX = Elements detected using EDS

# ProScience Analytical Services, Inc.

## PLM Asbestos Chain of Custody Record

LABORATORY/HEADQUARTERS  
 2 Cummings Park, Woburn, MA 01801  
 www.proscience.net  
 general@proscience.net



RUSH  
 Turn Around Time Requested  
 NT 15508  
 Page 1 of 4

Same day  24 Hour  48 Hour  72 Hour  5 Days

Client: Mabbett & Associates, Inc.

Address: 5 Alfred Circle, Bedford, MA 01730

Project Site & Number: James Plain NASO1 Samples 5

Phone / FAX Number: 781-275-6050 F: 5651

Contact: Bert Taylor Kevin Pearson #2014001, 002

For Lab Use > Batch Number SP99262

Analyzed by/date: Robert Mabbett 11/16/16

QC by/date: Matt Mabbett 11/16/16

Relinquished by/date: [Signature] 11/16/16  
 Received by/date: [Signature] 11/16/16  
 Samples received: 5  
 Analyzed: 5  
 Faxed, E-mailed, Verbal by/date: donovan@mabbett.com  
 Stop on first positive: Yes  No

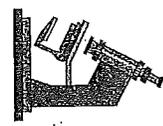
Lab ID	Field ID Sampled date	Description / Location	% Asbestos	Stereo Scope				Optical Properties				Asbestos Percentage (%)					Non Asbestos Percentage (%)									
				Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	J5-01	Building 1 - C wing - sub-basement crawl space	10	BN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90
	J5-02	Building 1 - C wing - sub-basement crawl space	2	GN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	92
	J5-03	Building 1 - C wing - sub-basement crawl space	2	GN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	98
	J5-04	Building 1 - C wing - sub-basement crawl space	0	GN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	100
	J5-05	Building 1 - C wing - sub-basement crawl space	0	GN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	98
	J5-06	Building 1 - C wing - sub-basement crawl space	5	GN	GN	GN	Y	S	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	95

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1-242277, 229027, 235000, 230653  
 Laboratory uses the EPA or ELAP point count method as appropriate  
 For complete information about our services and locations please visit us at www.proscience.net or call the numbers above.  
 Revised on 4/7/09

# Proscience Analytical Services, Inc.

## PLM Asbestos Chain of Custody Record

LABORATORY/HEADQUARTERS www.proscience.net  
 2 Cummings Park, Woburn, MA 01801 general@proscience.net  
 :781-935-3212 F:781-932-4857



RUSH Turn Around Time Requested  
 Same day  24 Hour  48 Hour  72 Hour  5 Days

Client: Mabbett & Associates, Inc. Relinquished by/date: [Signature] 1/6/16

Address: 5 Alfred Circle, Bedford, MA 01730 Received by/date: [Signature] 1/6/16

Project Site & Number: Jensen Plain, VA Soil Samples Analyzed by/date: Donovan @ mabbett.com

Phone / FAX Number: 781-275-6050 F:5651 Faxed, E-mailed, Verbal by/date: Donovan @ mabbett.com

Contact: Bert Taylor Kevin Donovan #2014001002 Stop on first positive: Yes  No  QC by/date: [Signature] 1/6/16

For Lab Use > Batch Number S99262 Analyzed by/date: [Signature] 1/6/16

Lab ID	Field ID Sampled date	Description / Location	% Asbestos	Stereo Scope				Optical Properties				Asbestos Percentage (%)					Non Asbestos Percentage (%)									
				Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
JS-07	1/5/16	Building 1 - C wing sub-basement crawl space	2	BR	GRY			S		+	LN	SS		I												98
JS-08	1/5/16	Building 1 - C wing sub-basement crawl space	10	BR	GRY			S		+	LN	SS		I												70
JS-09	1/5/16	Building 1 - C wing sub-basement crawl space	2	BR	GRY			S		+	LN	SS		I												98
JS-10	1/5/16	Building 1 - D wing sub-basement crawl space	0	BR	GRY			S		+	LN	SS		I												100
JS-11	1/5/16	Building 1 - C wing sub-basement fire alarm room	0	BR	GRY			S		+	LN	SS		I												100
JS-12	1/5/16	Building 1 - D wing sub-basement crawl space	0	BR	GRY			S		+	LN	SS		I												100

Comments: Birefringence L= less than .010, M=.011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1-242277, 229027, 236000, 236663 Laboratory uses the EPA or ELAP point count method as appropriate  
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 Revised on 4/7/09









