



600 West Cummings Par
Suite 650
Woburn, Massachusett
0180
781.932.940
Fax 781.932.621

August 3, 1998

Ms. Debra Mizia
Salem State College
352 Lafayette Street
Salem, Massachusetts 01970-5353

Re: Bulk Sampling Results
Meier Hall Floors 2 and 4, Building 3 Central Campus, and Alumni House Floor 1
ATC Project No. 10054.00001

Dear Ms. Mizia:

On June 19, and July 6, 1998, ATC Associates Inc. (ATC) collected bulk samples of suspect asbestos-containing materials at the above referenced locations.

A total of forty-three(43) bulk samples were collected and turned into ATC's in-house laboratory Hygeia Laboratories in Woburn, Massachusetts to be analyzed for asbestos content. The suspect material was analyzed by the Polarized Light Microscopy (PLM) Method (EPA-600/R-93/116). A sample is considered to be asbestos containing, when the percentage of asbestos is greater than one percent (1%). The Hygeia Laboratories, Inc. Bulk Sample Report of Analysis is attached for your reference.

If you should have any questions regarding this report, or require more information, please call Charlie Hughes at 617-932-9400, extension 663.

Very truly yours,

ATC ASSOCIATES INC

A handwritten signature in black ink, appearing to read 'Matthew P. Comai', is written over the typed name.

Matthew P. Comai
Asbestos Project Manager

Attachments

HYGEIA LABORATORIES, INC.

600 West Cummings Park, Suite 1900 • Woburn, MA 01801
781-933-5074 • FAX 781-938-1487

June 19, 1998

Matt Comai
ATC Associates, Inc.
600 West Cummings Park, Suite 6500
Woburn, Ma. 01801-6350

Dear Matt Comai,

Enclosed please find the results of analyses performed on samples received by our laboratory on 06/16/98. These samples were subcontracted on 06/16/98 to ProScience Analytical Services. ProScience Analytical Services' NVLAP ID Number is 200090.0 and their ELAP ID Number is 11632. The items in this report apply to items tested only.

The enclosed analytical results have been obtained by using the EPA/600/R-93/116 method. The "Visual Estimate" quantitative method is generally used for determining the percentage of asbestos and other components of the sample. "The Point Counting" method may also be used upon client request or at the analyst discretion. The Point Count method is usually recommended when the sample contains less than 10% asbestos by Visual estimate. Asbestos content less than 1% is recorded on the report as TR (trace.)

The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLP.

All Laboratory records are retained for at least three years unless otherwise directed in writing by the client. The actual samples are retained for a period of six months and written request is necessary in order to be retained for a longer period of time. All analytical results and records are confidential and will not be released under any circumstances to anyone except the actual client. The analytical results included in this report apply to only the items tested.

If you have any questions please contact the Laboratory Manager or the Senior Analyst.



Nancy Duarte, Laboratory Manager
Michael Manning, Senior Analyst

Enclosure:
LAB BATCH ID: WO-S41 CLIENT PROJECT ID: 10054.00001
Client #: 560
MA #079 NYELAP #10965



HYGEIA LABORATORIES, INC.

600 West Cummings Park, Suite 1900 • Woburn, MA 01801
781-933-5074 • FAX 781-938-1487

July 6, 1998

Matt Comai
ATC Associates Inc.
600 W. Cummings Park
Ste. 6500
Woburn, MA 01801

Dear Matt Comai,

Enclosed please find the results of analyses performed on samples received by our laboratory on 06/22/98. These samples were subcontracted on 06/23/98 to ATC Associates NY. ATC Associates NY' NVLAP ID Number in 1187-00 and their ELAP ID Number is 10879. The items in this report apply to items tested only.

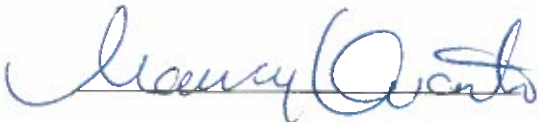
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The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client.

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If you have any questions please contact the Laboratory Manager or the Senior Analyst.



Nancy Duarte, Laboratory Manager
Michael Manning, Senior Analyst

Enclosure:
LAB BATCH ID: WO-S102 CLIENT PROJECT ID: 10054.00001
Client #: 560
MA #079 NYELAP #10965





ProScience Analytical Services, Inc

Nancy Duarte
Hygeia Laboratories, Inc.
600 West Cummings Park
Suite 1900
Woburn, MA 01801

June 18, 1998

Dear Nancy Duarte,

The enclosed analytical results have been obtained by using the EPA/600/R-93/116 method. The "Visual Estimate" quantitative method is generally used for determining the percentage of asbestos and other components of the sample. "The Point Counting" method may also be used upon client request or at the analyst discretion. The Point Count method is usually recommended when the sample contains less than 10% asbestos by Visual estimate. Asbestos content less than 1% is recorded on the report as TR (trace).

The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

All Laboratory records are retained for at least three years unless otherwise directed in writing by the client. The actual samples are retained for a period of six months and written request is necessary in order to be retained for a longer period of time. All analytical results and records are considered strictly confidential and will not be released under any circumstances to anyone except the actual client. The analytical results included in this report apply to only the items tested.

If you have any questions please contact the Laboratory Manager or the Laboratory Director.

Valerica Stanca, Optical Asbestos Manager
Adrian Stanca, Laboratory Director

Enclosure:
LAB BATCH ID: 3985 CLIENT PROJECT ID: 10054.00001
Client #: 118
NVLAP ID NUMBER: 200090-0



ProScience Analytical Services, Inc.

22 Cummings Park
Woburn, MA 01801
Phone: (781)935-3212

INVOICE

Thursday, June 18, 1998

Nancy Duarte
Hygeia Laboratories, Inc.
600 West Cummings Park
Suite 1900
Woburn, MA 01801

ATC Woburn
5/60

Invoice B 3985
Purchase Order S41
Client Reference Salem State College
Project Number 10054.00001

Sample Analysis For Bulk	Price per sample.	\$12.00
	Number of sample(s) analyzed	38
PAY THIS AMOUNT		\$456.00

*If you have any questions concerning this invoice, call the laboratory and use the Invoice number on the top right corner as a reference.

**PLEASE REMIT TO: ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, Massachusetts 01801**

PAYMENT TERMS ARE NET 30 DAYS

JD

38 @ \$15 = \$570-

THANK YOU FOR YOUR BUSINESS!

ATC Associates Inc.

104 E. 25th St., 10th Floor, New York, NY 10010-2917

(212) 353-8280 Fax (212) 353 8308

BULK ASBESTOS ANALYSIS RESULTS

Client : ATC Woburn

Project: 10054-00001
Salem State
Alumni Hall

Batch # : 11605
Date Collected : 6/19/98

Page : 1

SAMPLE INFORMATION		Asbestos Result	Fibrous Material	Non-Fibrous Material	NOB Result
Field # : 01A Color : Brown Location : Alumni House 1st floor Type of Mat: Sheet flooring material Homogeneity : Y Method : ELAP+EPA PLM	Date Analyzed: 6/24/98 By : ML	NONE-DETECTED	10 % Cellulose	10 % Mineral Filler 80 % Organic Binders	
Comment: NOB Recommended					
Field # : 01B Color : Brown Location : Alumni House 1st floor Type of Mat: Sheet flooring material Homogeneity : Y Method : ELAP+EPA PLM	Date Analyzed: 6/24/98 By : ML	NONE-DETECTED	10 % Cellulose	10 % Mineral Filler 80 % Organic Binders	
Comment: NOB Recommended					
Field # : 01C Color : Brown Location : Alumni House 1st floor Type of Mat: Sheet flooring material Homogeneity : Y Method : ELAP+EPA PLM	Date Analyzed: 6/24/98 By : ML	NONE-DETECTED	10 % Cellulose	10 % Mineral Filler 80 % Organic Binders	
Comment: NOB Recommended					

Legend: TRACE = LESS THAN LIMIT OF QUANTITATION (<0.25%)

Note 1: For point counts the limit of quantitation of 0.25% is based on one asbestos point counted over 400 non-empty points.

Note 2: > 1% asbestos by weight is considered an ACM (Asbestos Containing Material).

Analyst:

Reviewed and Signed for the Company by:

Director of Laboratory Services

Chain of Custody



ANALYTICAL CHEMISTRY • ENVIRONMENTAL TOXICOLOGY • METALS ANALYSIS • WATER ANALYSIS

Office _____

Client Name <i>ATC Noburn</i>		Address	
Location <i>Salem State</i>		ATC Client # <i>10054</i>	ATC Job # <i>00001</i>
Sample Number(s) <i>01A-01C</i>		Number of Samples <i>3</i>	
Samples Collected By <i>crew</i>		Date Collected <i>6/19/98</i>	
Type of Sample (circle one) Air Sample <u>Bulk Sample</u> Water Sample Other _____			
Type of Analyses Requested (circle one) TEM <u>PLM</u> PCM GC AA-Flame AA-Furnace Other _____			
Turnaround Time (Please ensure laboratory can accommodate the request before sending; circle one) 2 hr. 4 hr. 6 hr. 12 hr. 24 hr. 48 hr. 72 hr. 3-5 days 5-10 days Other _____			
Transmittal of Results			
<input type="checkbox"/> Standard Report Turnaround (5-7 working days)			
<input type="checkbox"/> Please Telephone results to _____ Telephone # _____ by _____ (Time) on _____ (Date)			
<input type="checkbox"/> Please Fax results to _____ Fax # _____ by _____ (Time) on _____ (Date)			
<input type="checkbox"/> Additional Instructions _____ <div style="text-align: center;"><i>#11665</i></div>			

Sample Integrity (To be filled out by laboratory only)	Number of samples <i>3</i>	Condition of Samples <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
Lab Comments		

Relinquished By (Signature)	Received By (Signature)	Time	Date	Reason for Change of Custody
<i>crew</i>	<i>Telbert</i>		<i>6/24/98</i>	

Additional Comments: _____

NOTES:
 1. It is required to have one chain of custody per client and per sample type
 2. Sample collector is responsible for ensuring that all samples have been preserved and prepared according to the appropriate and applicable methodology



EMSL Analytical, Inc.

7 Constitution Way, Suite 107, Woburn, MA 01801

Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

Attn: **Ed Morgan**
Asbestos Consultants
61 Unity Avenue
Belmont, MA 02478

Customer ID: ASCO62
Customer PO:
Received: 11/26/08 10:45 AM
EMSL Order: 130804232

Fax: Phone: (617) 775-4688
Project: **Academic Bldg. Salem, MA**


EMSL Proj:
Analysis Date: 12/1/2008
Report Date: 12/1/2008

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 130804232-0001	Caulk	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2 130804232-0002	Caulk	Gray Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
3 130804232-0003	Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4 130804232-0004	Glaze	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5 130804232-0005	Caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6 130804232-0006	Ceiling Plaster	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
7 130804232-0007	Vapor Barrier	Black Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
8 130804232-0008	Insulation	White/Black Fibrous Homogeneous	60% Glass 20% Min. Wool	20% Non-fibrous (other)	None Detected

Analyst(s)

Dan Williams (32)



Renaldo Drakes
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
NVLAP Lab Code 101147-0, AIHA IHLAP 180179, MA AA000188



EMSL Analytical, Inc.

7 Constitution Way, Suite 107, Woburn, MA 01801

Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

Attn: **Ed Morgan**
Asbestos Consultants
61 Unity Avenue
Belmont, MA 02478

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EMSL Proj:
Analysis Date: 12/1/2008
Report Date: 12/1/2008

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9 130804232-0009	Sheetrock	White/Brown Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
10 130804232-0010	Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
11 130804232-0011	Wall Plaster	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12 130804232-0012	Linoleum; Bottom Layer	Black Non-Fibrous Homogeneous	40% Cellulose 5% Synthetic	55% Non-fibrous (other)	None Detected
13 130804232-0013	Linoleum; Middle Layer	Black/Brown Non-Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
14 130804232-0014	Linoleum; Top Layer	Gray Non-Fibrous Homogeneous	5% Cellulose	93% Non-fibrous (other)	2% Chrysotile
15 130804232-0015	Wall Plaster	White/Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
16 130804232-0016	Glaze	Brown/White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected

Analyst(s) _____

Dan Williams (32)

Renaldo Drakes
or other approved signatory

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Fax: Phone: (617) 775-4688
Project: **Academic Bldg. Salem, MA**

EMSL Proj:
Analysis Date: 12/1/2008
Report Date: 12/1/2008

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17 130804232-0017	Glaze	Brown/White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
18 130804232-0018	SR/JC	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
19 130804232-0019	2x2 Suspended Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 30% Glass	30% Non-fibrous (other)	None Detected
20 130804232-0020	Ceiling Plaster	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
21 130804232-0021	SR/JC	White Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (other)	None Detected
22 130804232-0022	Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
23 130804232-0023	Grout	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
24 130804232-0024	Ceiling Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____

Dan Williams (32)

Renaldo Drakes
or other approved signatory

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Report Date: 12/1/2008

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
25 130804232-0025	Wall Plaster	White/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
26 130804232-0026	Glaze	White/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27 130804232-0027	Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
28 130804232-0028	JC/SR	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
29 130804232-0029	Glue	Black/White/Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
30 130804232-0030	Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
31 130804232-0031	Wall Plaster	White/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
32 130804232-0032	Adhesive	Gray/Tan Non-Fibrous Heterogeneous	5% Cellulose 5% Synthetic	90% Non-fibrous (other)	None Detected

Analyst(s) _____

Dan Williams (32)

Renaldo Drakes
or other approved signatory

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NVLAP Lab Code 101147-0, AIHA IHLAP 180179, MA AA000188

Enviro-Safe Engineering

**203 Prospect Street
Brockton, MA 02301**

(617)623-6678

July 27, 2016

Salem State College
70 Loring Avenue
Salem, MA 01970

RE: Asbestos Inspection, Salem State University, Salem, MA

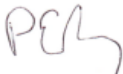
On July 18, 2016 Richard Alomar, Massachusetts licensed asbestos inspector AI900524, inspected the building at the above address for the presence of asbestos prior to renovation. The thermal system insulation above the ceiling tiles in the hall outside classrooms 122 and 129 were suspected to contain asbestos. Bulk samples of the suspected asbestos containing materials were collected.

The samples were delivered to TRC Environmental Associates for analysis. The samples were analyzed by the EPA endorsed method of Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The PLM/DS is a qualitative and quantitative form of analysis that yields the type of asbestos in a sample, if any.

All bulk samples were negative for the presence of asbestos. See enclosed results.

If you should require more information on this matter, please do not hesitate to contact me at (617) 623-6678.

Sincerely,



Patricia E. Riley
President

**HAZARDOUS MATERIALS
INSPECTION
REPORT**

at

SALEM STATE COLLEGE

ACADEMIC BUILDING

SALEM

MA

INSPECTION DATE:

November 24, 2008

INSPECTION CONDUCTED BY:

**ASBESTOS CONSULTANTS LLC
61 UNITY AVENUE
BELMONT, MASSACHUSETTS 02478**

tel: 617-775-4688

fax: 617-484-0351

1.0 INTRODUCTION:

Asbestos Consultants (AC) was contracted by the Luna Design Group to conduct a limited hazardous materials inspection for Asbestos Containing Materials (ACM) and Lead Based Paint (LBP) at the Academic Building located at the Salem State College campus in Salem, Massachusetts.

The scope of work included the inspection of accessible and inaccessible ACM in the areas of the lower level where the renovation is scheduled to occur. In the area, building materials were inspected and bulk samples were collected from materials suspected to contain ACM and LBP. The ACM was categorized by type, location and quantity. Recommendations for remediation were developed.

All suspect asbestos materials were grouped into homogeneous areas. By definition a homogeneous area is one in which the materials are evenly mixed and similar in appearance and texture throughout.

The asbestos inspection was conducted in accordance with Massachusetts' regulations 453 CMR 6.00 and NESHAP regulations 29 CFR 1926.

ACM sample laboratory results are included.

The scope of work also included the inspection and sampling of painted surfaces suspected to contain LBP.

LBP laboratory results are included.

2.0 FINDINGS:

Consistent homogeneous building materials were discovered throughout the inspection areas that included the bathrooms, adjacent offices, boiler room and common spaces.

The top layer of linoleum located in the Janitor closet beneath carpeting tested positive for asbestos.

The single window located in the boiler room has horizontal framing caulking that tested positive for asbestos.

A black vapor barrier wall material located in the electrical room (this material is not scheduled to be disturbed) tested positive for asbestos.

Pipe and fitting insulation located throughout the area was visually identified as asbestos.

Asbestos:

A. Number of Samples Collected

Thirty-two bulk samples were collected at various locations from homogeneous building materials suspected of containing asbestos, including:

- Wall and Textured Ceiling Plasters
- Floor Tiles, Linoleum and Mastics

- Suspended Ceiling Tiles
- Sheetrock and Joint Compounds
- Incinerator Insulation
- Window Glazing and Caulking
- Carpet Glue
- Cove Base and Glue
- Ceramic Wall Tile Mortar

B. Sample Results

The following suspect materials were found to be ACM:

<i>Type of Material</i>	<i>Result</i>
• Floor Linoleum	2% Chrysotile
• Window Caulking	2% Chrysotile
• Black Vapor Barrier Material	10% Chrysotile

3. Observations and Recommendations

Visually identified asbestos containing pipe and fitting insulation located throughout the area does not have to be removed unless it will be disturbed. Currently the majority of the material is located above the suspended ceiling system.

The small amount of asbestos containing floor linoleum (less than 50 square feet) located in the Janitor closet may not be disturbed during the renovation and therefore may be left in place.

The vapor barrier material located in the electrical room will not be disturbed and may be left undisturbed.

The exterior window with asbestos containing caulking will be disturbed during the renovation and will have to be removed.

Lead:

Due to the age of the building and numerous painted finishes located within the scheduled renovation area, LBP is assumed to exist throughout the area. Lead abatement is not required, however, any disturbance of the painted surfaces must be performed by trained workers with appropriate respiratory protection and engineering controls.

Other Hazardous Materials:

Approximately 75 fluorescent light tubes were identified within the renovation area. Appropriate removal and disposal is required. Associated ballasts identified were not suspect for PCBs, however, ballasts should be segregated and appropriately disposed.

5.0 DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES:

Asbestos:

Bulk material samples were collected from various locations in and around the proposed bathroom renovation area. Bulk material samples were analyzed using Polarized Light

Microscopy and dispersion staining techniques in accordance with EPA method 600/M4-82-020.

6.0 ACCREDITATION CERTIFICATES:

Massachusetts Asbestos Inspector Certificate and License are enclosed.

Report prepared by:

Edwin G. Morgan