



**PRE-RENOVATION
INVESTIGATIVE SURVEY FOR
ASBESTOS-CONTAINING MATERIALS
18-20 TRINITY STREET
HARTFORD, CONNECTICUT**

**Project No. 2B-08-27
DPW No. 19360**

Prepared for
State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

A handwritten signature in black ink, reading "Donald LePage", is written over a horizontal line.

Donald LePage
Project Manager

TRC Project No. 106957-9330-0001
January 6, 2009

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone (860) 298-9692
Facsimile (860) 298-6399

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EXECUTIVE SUMMARY

On December 12, 2008 TRC of Windsor, Connecticut conducted an inspection for suspect asbestos-containing materials (ACM) at 18-20 Trinity Street in Hartford, Connecticut. The inspection was initiated prior to planned renovation activities in accordance with USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAPS) requirements.

The scope of the inspection was limited to the third floor west side Auditors Area window at the subject site. A Connecticut licensed asbestos inspector from TRC conducted the inspection in accordance with USEPA AHERA protocols and ASTM Standard E2356-04. Bulk samples of suspect materials were collected and analyzed via polarized light microscopy (PLM) and transmission electron microscopy (TEM) methods at CTDPH/NVLAP accredited laboratories. ACM was identified as window caulking in the subject area. ACM to be impacted by renovation activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through D.

PROJECT OUTLINE

Project Address: 18-20 Trinity Street
Hartford, CT

DAS Contract No. 03PSX0346E

DPW Project Manager James Sinclair

DPW Project No.: 2B-08-27

DPW Building No: 19360

TRC Project No.: 106957-9330-0001

TRC Project Manager: Don LePage

Asbestos Inspector: Stephen Arienti (LIC #000583)

Date of Inspection: 12/12/08

Asbestos Identified: Yes

Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing window materials from within the 3rd floor west side Auditors Area of the building.

TABLES

**TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
18-20 TRINITY STREET
HARTFORD, CONNECTICUT**

Sample No.	Sample Location	Homogeneous Material	% and Type Asbestos
1	3 rd floor west side – Auditors Area	Window glazing associated with metal single-pane window	ND<1% ¹
2	3 rd floor west side – Auditors Area	Window glazing associated with metal single-pane window	ND<1%
3	3 rd floor west side – Auditors Area	Window caulking associated with metal single-pane window	5% chrysotile
4	3 rd floor west side – Auditors Area	Window caulking associated with metal single-pane window	NA/PS

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM

NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos

ND<1% Non-detected, less than 1%

NAD No asbestos detected

+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive

1 NOB material; result confirmed by TEM analyses

* Quantified by PLM Point Counting techniques

TABLE 2
IDENTIFIED ASBESTOS CONTAINING MATERIALS (≥1%)
18-20 TRINITY STREET
HARTFORD, CONNECTICUT

Material	Sampled-Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
Window caulking associated with metal single-pane window	Sampled 12/08	3 rd floor west side – Auditors Area	Category II Non-friable	Miscellaneous	1 EA

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
 NESHAP Categories = friable, category I non-friable or category II non-friable
 Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
 Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
 Category II Non-friable = all non-friable that is not Category I

TABLE 3
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS
18-20 TRINITY STREET
HARTFORD, CONNECTICUT

Material	General Location
Window glazing associated with metal single-pane window	3 rd floor west side – Auditors Area

APPENDIX A

LABORATORY AND INSPECTOR ACCREDITATIONS

Dear Licensed/Certified Professional,
 Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
 P.O. Box 340308
 M.S.#12MQA
 Hartford, CT 06134-0308
<http://www.dph.state.ct.us>

Sincerely,

J. Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
 DEPARTMENT OF PUBLIC HEALTH

0006061 FP
 **PRSR T6 0 0964 06450
 STEPHEN R. ARIENTI
 63 PINEHURST DRIVE
 MERIDEN CT 06450

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

EMPLOYER'S COPY

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME: STEPHEN R. ARIENTI
 LICENSE NO.: 000583
 CURRENT THROUGH: 04/30/09

PROFESSION: ASBESTOS CONSULTANT-INSPECTOR

VALIDATION NO.: 03-657524

SIGNATURE: *[Signature]*
 COMMISSIONER: *J. Robert Galvin, MD, MPH, MBA*

WALLET CARD

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME: STEPHEN R. ARIENTI
 LICENSE NO.: 000583
 CURRENT THROUGH: 04/30/09

PROFESSION: ASBESTOS CONSULTANT-INSPECTOR

VALIDATION NO.: 03-657524

SIGNATURE: *[Signature]*
 COMMISSIONER: *J. Robert Galvin, MD, MPH, MBA*

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
 THE INDIVIDUAL NAMED BELOW IS LICENSED
 BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

STEPHEN R. ARIENTI

LICENSE NO.: 000583
 CURRENT THROUGH: 04/30/09
 VALIDATION NO.: 03-657524

SIGNATURE: *[Signature]*
 COMMISSIONER: *J. Robert Galvin, MD, MPH, MBA*

CERTIFICATE OF ACHIEVEMENT

This certifies that

Stephen Arienti

has successfully completed the
**Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763**

conducted by

**ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070**

Gregory J. Morach
Principal Instructor

... January 3, 2008

Date of Course

January 3, 2009

Expiration Date

Gregory J. Morach
Regional Manager

SIAR-2645

Certificate Number

January 3, 2008

Examination Date

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095
AND REGISTERED IN THE NAME OF Eric Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2009 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH
DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF January, 2008

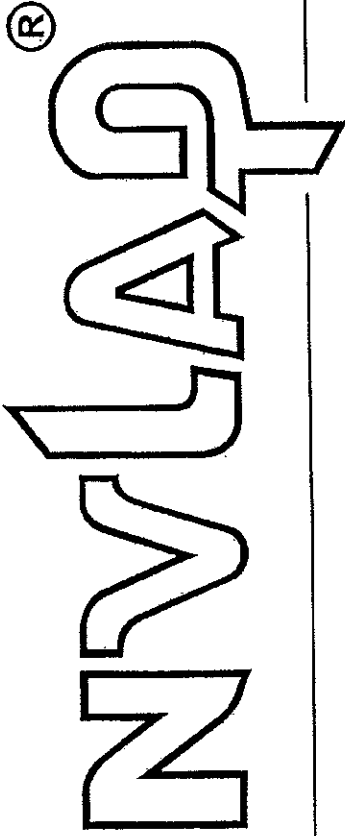


Registration
No.

PH-0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation
Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).*

2008-07-01 through 2009-06-30

Effective dates



Dolly S. Bruce
For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Ms. Kathleen Williamson
Phone: 860-298-9692 Fax: 860-298-6399
E-Mail: kwilliamson@trcsolutions.com
URL: <http://www.trcsolutions.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101424-0

NVLAP Code Designation / Description

18/A01 EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801

AND REGISTERED IN THE NAME OF Adrian Stanca WHO HAS BEEN DESIGNATED
Adrian Stanca - Director

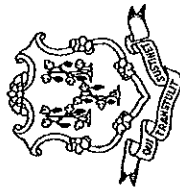
THIS CERTIFICATE IS ISSUED IN THE NAME OF Martha Kneizys - Co-Director Chemistry

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

NON-POTABLE WATER / WASTEWATER, SOLID WASTE/SOIL ENVIRONMENTAL HEALTH & HOUSING ASBESTOS
INORGANICS LEAD IN PAINT AIR
LEAD (PAINT) IN SOIL BULK MATERIALS
LEAD IN DUST WIPES WATER

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2008 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH
DATED AT HARTFORD, CONNECTICUT, THIS 20th DAY OF December 2006

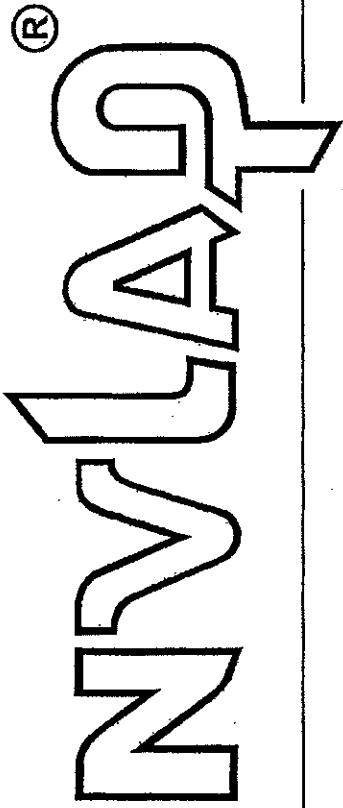


Registration No.

PH-0209

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.
Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2008-01-01 through 2008-12-31

Effective dates



Dolly S. Bruce
For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ProScience Analytical Services, Inc.

22 Cummings Park

Woburn, MA 01801-2122

Mr. Adrian Stanca

Phone: 781-935-3212 Fax: 781-932-4857

E-Mail: kobab@aol.com

URL: <http://www.proscience.net>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 200090-0

NVLAP Code Designation / Description

18/A01 EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-01-01 through 2008-12-31

Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

APPENDIX B

**ASBESTOS BULK SAMPLE CHAIN OF CUSTODY
FORMS**



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: September 2007
Supersedes Previous Edition

LAB ID # 36436

PROJECT NAME CT DPW - 18-20 Trinity Street, Hartford, CT	TURNAROUND TIME	
PROJECT NUMBER 106957.9330.0001	PLM:	5day
SIGNATURE 	TEM:	5day
INSPECTOR Stephen Arienti	24hr	3day
	48hr	3day
	24hr	48hr
	48hr	5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM NY NOB 198.1 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & >10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
			COMP	GRAB							
01	12/12/08	0930			3 rd floor West side - Auditors Area	X				X	Window glazing associated with metal single pane window
02	12/12/08	0930			3 rd floor West side - Auditors Area	X					Window glazing associated with metal single pane window
03	12/12/08	0930			3 rd floor West side - Auditors Area	X				X	Window caulking associated with metal single pane window
04	12/12/08	0930			3 rd floor West side - Auditors Area	X					Window caulking associated with metal single pane window

Relinquished by: (Signature) 	Date: 12/12/08	Received by: (Signature) 	Date: 12/15/08
(Printed) Stephen Arienti	Time: 1110	(Printed) K. Williams	Time: 0830
Remarks:	Condition of Samples: <u>95</u> No <u> </u> Acceptable: Yes <u> </u> No <u> </u> Comments:		

NIT 10799

Proscience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857
TEM Bulk Chain of Custody Record

Analysis Type: Chatfield N.O.B N.Y.S Qualitative

Date: 12/15/08

Client: TRC
Client Job#: 106957.9330.0001
Client Job Ref./Loc.: CT DPW- 18-20 Trinity Street, Hartford, CT
Relinquished by: K. Williamson
Received by: *Kathy Antone 12-16-08 9:25 AM*
Report to: D. LePage
Sampler Name: S. Arisenti

Turn Around Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	For Lab Use Only Comments	
01	36436	Glazing				
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

APPENDIX C

PLM LABORATORY ANALYSIS DATA



Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: 18-20 Trinity Street, Hartford, CT
Lab Log #: 36436
Project #: 106957.9330.0001
Date Received: 12/15/08
Date Analyzed: 12/15/08

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	Grey	Yes	No	--	--	ND<1%	None
02	Grey	Yes	No	--	--	ND<1%	None
03	Grey	Yes	No	--	--	5%	Chrysotile
04	--	--	--	--	--	NA/PS	--

NA/PS- Not Analyzed/Positive

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

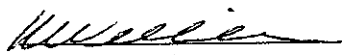
Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

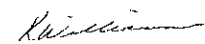
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2009. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through August 1, 2010. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Kathleen Williamson

QC Analyst: Helen Rimsa

Reviewed by: 
Laboratory Analyst

Approved: 
Kathleen Williamson
Signatory: Laboratory Manager

Date Issued: 12/15/08

APPENDIX D

TEM LABORATORY ANALYSIS DATA

ProScience Analytical Services, Inc

22 Cummings Park, Woburn, Massachusetts 01801
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

Method: TEM NOB
Batch: NT 10799
Date Analyzed: 12/17/2008
Date Received: 12/16/2008
Date of Report: 12/17/2008

Client #: 297
Client Project: 106957.9330.0001
Client Reference: CT DPW - 18-20 Trinity Street, Hartford, CT
Client Name: TRC Environmental Corp. (CT)

LAB ID	Field ID	Description:	Color	Initial Sample Weight	% Asbestos Types				% Other Non-ssb.	% Organic	% Carb.	Total % Asbestos	Analyzed /Charged	Prepaid/Charged	
					CHR	AMO	ACT	CRO							ANT
NTE2943	01	Window glazing		.2747	.00	.00	.00	.00	.00	.00	.00	85.51	ND	Yes	No

Comments:

Roland Holacsek, Analyst

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected