



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

**Project No. 2B-06-15  
DPW No. 19360**

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

*Prepared by*  
TRC Environmental Corporation  
Windsor, Connecticut

A handwritten signature in black ink that reads 'Donald LePage'. The signature is written in a cursive style and is underlined.

Donald LePage  
Project Manager

TRC Project No. 43500-4160-00001  
June 2006

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

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## EXECUTIVE SUMMARY

On May 5, 2006 TRC Environmental Corporation (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 2<sup>nd</sup> floor Southwest corner office areas at the 18-20 Trinity Street. 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) at a CTDPH/NVLAP accredited laboratory. ACM was identified as old black mastic/carpet glue in the SW corner offices on the 2<sup>nd</sup> floor. 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 Michael Sanders

DPW Project No.: 2B-06-15

DPW Building No: 19360

TRC Project No.: 43500-4160-00001

TRC Project Manager: Don LePage

Asbestos Inspector: Stephen Arienti(LIC #000583)

Date of Inspection: May 5, 2006

Asbestos Identified: Yes

### Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing materials associated with renovations to the walls and floors in the Southwest corner offices on the 2<sup>nd</sup> floor of 18-20 Trinity Street.

# TABLES

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

| Sample No. | Sample Location     | Homogeneous Material         | % and Type Asbestos |
|------------|---------------------|------------------------------|---------------------|
| 01         | SW Offices – Room 1 | Joint compound               | ND<1%               |
|            |                     | Sheetrock                    | ND<1%               |
| 02         | SW Offices – Room 2 | Joint compound               | ND<1%               |
|            |                     | Sheetrock                    | ND<1%               |
| 03         | SW Offices – Room 3 | Joint compound               | ND<1%               |
|            |                     | Sheetrock                    | ND<1%               |
| 04         | SW Offices – Room 1 | Old black mastic/carpet glue | 10% chrysotile      |

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%)**  
**CT DPW – 18-20 TRINITY STREET**  
**HARTFORD, CONNECTICUT**

| Material                        | Sampled-<br>Assumed<br>(mo/yr) | General Location                             | NESHAP<br>Category        | AHERA<br>Category | Estimated<br>Quantity |
|---------------------------------|--------------------------------|--|---------------------------|-------------------|-----------------------|
| Old black mastic/carpet<br>glue | Sampled<br>05/06               | 2 <sup>nd</sup> floor – SW<br>corner offices | Category I<br>Non-Friable | Miscellaneous     | ~1,800 SF             |

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  
CT DPW – 18-20 TRINITY STREET  
HARTFORD, CONNECTICUT**

| <b>Material</b>              | <b>General Location</b>                   |
|------------------------------|---|
| Sheetrock and joint compound | 2 <sup>nd</sup> floor – SW corner offices |



**APPENDIX A**

**SITE SKETCH**



SUBJECT CT DPW 18-20 Trinity St Hartford, CT

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

DATE \_\_\_\_\_

BY \_\_\_\_\_

CHK'D \_\_\_\_\_

2nd floor - SW Corner office



Hallway  
→

\* SURF

Rm 2  
Adm. work  
carpet

Rm 3

\* SURF

Adm. work  
carpet

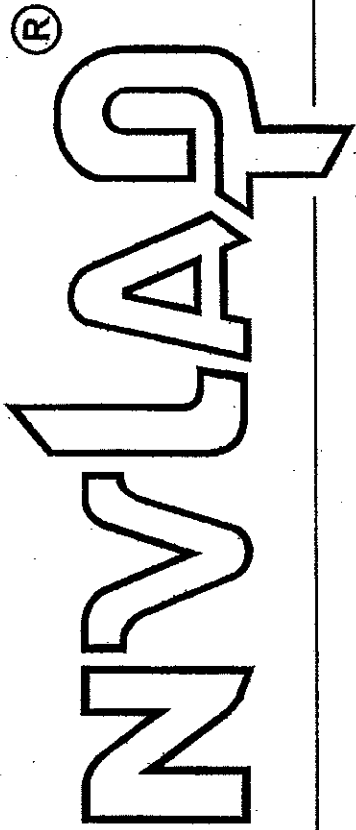
Rm 1

\* SURF

**APPENDIX B**

**LABORATORY AND INSPECTOR ACCREDITATIONS**

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:1999

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NVLAP LAB CODE: 101424-0

**TRC Environmental Corporation**  
Windsor, CT

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in  
NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.

Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**BULK ASBESTOS FIBER ANALYSIS**

2006-07-01 through 2007-06-30

Effective dates

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*Dolly A. 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.

### TRC ENVIRONMENTAL CORPORATION

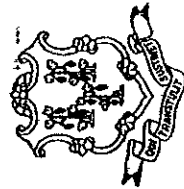
LOCATED AT 21 Griffin Road North IN Windsor, CT 06095  
AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte 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, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 22<sup>ND</sup> DAY OF DECEMBER 2005

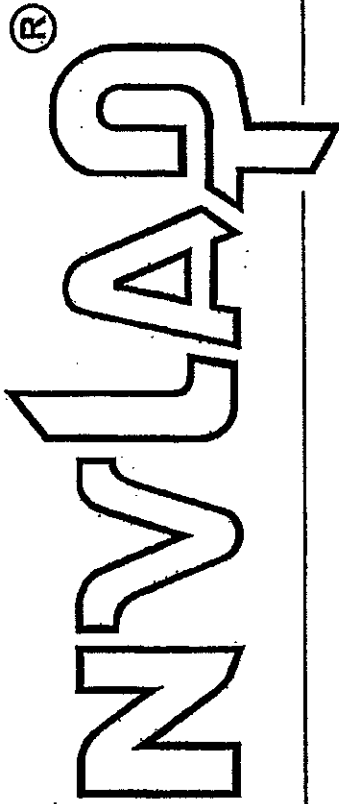


Registration  
No.

PH- 0426

*Ellen J. Blaschinski*  
CHIEF, REGULATORY SERVICES BRANCH

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:1999

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NVLAP LAB CODE: 200090-0

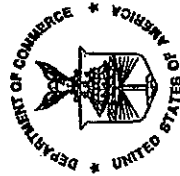
**ProScience Analytical Services, Inc.**  
Woburn, MA

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in  
NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**BULK ASBESTOS FIBER ANALYSIS**

2006-01-01 through 2006-12-31

Effective dates



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  
THIS CERTIFICATE IS ISSUED IN THE NAME OF Adrian Stanca, Director  
Stephen Chao, 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:

**ASBESTOS**  
Bulk Identification (PLM)  
Air-Fiber Counting (PCM + TEM)  
Water (TEM)

Examination for:  
**TRACE METALS**

**WASTEWATER, SOLID WASTE/SOIL**

**PAINT, SOIL, DUST WIPES**  
Examination for:  
**LEAD**

**SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED**

THIS CERTIFICATE EXPIRES DECEMBER 31, 2006 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 28th DAY OF DECEMBER 2004



*Evan J. Blaschinski*

DIRECTOR, DIVISION OF ENVIRONMENTAL HEALTH

PE-0209

0003494 FP \*\*PRSRT T9 0 0684 06450

STEPHEN R. ARIENTI  
63 PINEHURST DRIVE  
MERIDEN CT 06450

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  
P.O. Box 340308  
M.S. #12MOA  
Hartford, CT 06134-0308

(860) 509-7603

<http://www.dph.state.ct.us>

Sincerely,

*J. Robert Galvin M.D., M.P.H.*

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

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

VALIDATION NO.  
03-321623

LICENSE NO.  
000583

CURRENT THROUGH  
04/30/07

PROFESSION

ASBESTOS CONSULTANT-INSPECTOR

*[Signature]*  
SIGNATURE

*J. Robert Galvin M.D., M.P.H.*  
COMMISSIONER

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  
04/30/07  
VALIDATION NO.  
03-321623

*[Signature]*  
SIGNATURE

*J. Robert Galvin M.D., M.P.H.*  
COMMISSIONER



# 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**

*Charles Kolberg*  
Principal Instructor

January 5, 2006

Date of Course

January 5, 2007

Expiration Date

*Gregory J. Moroch*  
Regional Manager

SIAR-2079

Certificate Number

January 5, 2006

Examination Date

**APPENDIX C**

**ASBESTOS BULK SAMPLE CHAIN OF CUSTODY  
FORMS**



Customer-Focused Solutions

5 Waterside Crossing  
Windsor, Connecticut 06095  
Telephone 860-298-9692

### CHAIN OF CUSTODY RECORD

| PROJECT NO.<br>43500-4160<br>-00001         | PROJECT NAME<br>CT DPW - 18-20 Trudy St. Holdings<br>2nd floor - SW Corner Area Offices |                    | PARAMETERS       |       |                              | REMARKS<br>32287   |
|---|---|--------------------|------------------|-------|------------------------------|--|
|   | NO. OF CONTAINERS   | PLM<br>(18 to 102) | Sample by Layer  | TEM   |                              |  |
| SAMPLERS: (Signature)<br><i>[Signature]</i> |   |                    | STATION LOCATION |       |                              | RECEIVED BY: (Signature)<br>Date / Time  |
| FIELD SAMPLE NUMBER                         | DATE  | TIME               | COM 3            | COM 5 |                              |  |
| 01  | 5/5/06  | 0930               |                  |       | SW Offices - Rm 1            | Relinquished by: (Signature)<br><i>[Signature]</i><br>Date / Time: 5/5/06 0945 |
| 02  |   |                    |                  |       | SW Offices - Rm 2            | Received by: (Signature)<br>(Printed)  |
| 03  |   |                    |                  |       | SW Offices - Rm 3            | Relinquished by: (Signature)<br>Date / Time: 5/5/06 1050                       |
| 04  |   |                    |                  |       | SW Offices - Rm 1            | Received for Laboratory by:<br>(Signature) <i>[Signature]</i><br>(Printed)     |
|   |   |                    |                  |       | Sheetrock / joint caulk      | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       | Old black msft / caulk/ glue | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |
|   |   |                    |                  |       |                              | Relinquished by: (Signature)<br>Date / Time                                    |
|   |   |                    |                  |       |                              | Received by: (Signature)<br>Date / Time  |

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

**APPENDIX D**

**PLM LABORATORY ANALYSIS DATA**

**TRC ENVIRONMENTAL CORPORATION**  
Environmental Chemistry 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 (2<sup>nd</sup> floor- SW corner area)  
Lab Log #: 32287  
Project #: 43500-4160-00001  
Date Received: 05/05/06  
Date Analyzed: 05/05/06

**RESULTS**

| Sample No. | Color                  | Homogeneous | Multi-Layered | Layer No. | Other Matrix Mat'ls | Asbestos % | Asbestos Type |
|------------|------------------------|-------------|---------------|-----------|---------------------|------------|---------------|
| 01         | White (joint compound) | No          | Yes           | 1         | --                  | ND<1%      | None          |
| 01         | White (sheetrock)      | No          | Yes           | 2         | --                  | ND<1%      | None          |
| 02         | White (joint compound) | No          | Yes           | 1         | --                  | ND<1%      | None          |
| 02         | White (sheetrock)      | No          | Yes           | 2         | --                  | ND<1%      | None          |
| 03         | White (joint compound) | No          | Yes           | 1         | --                  | ND<1%      | None          |
| 03         | White (sheetrock)      | No          | Yes           | 2         | --                  | ND<1%      | None          |
| 04         | Black                  | Yes         | No            | --        | --                  | 10%        | Chrysotile    |

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, 2006. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. 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: Kathleen Williamson

Reviewed by:   
Laboratory Analyst

Approved:   
Signature: Henry J. Laliberte  
Laboratory Manager

Date Issued: 5/5/06