




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

**Project No. 2B-06-03  
DPW No. 19360**

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

*Prepared by*  
TRC Environmental Corporation  
Windsor, Connecticut

  
Donald LePage  
Project Manager

TRC Project No. 43500-3250-00001  
February 10, 2006

**TRC Environmental Corporation**  
21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone (860) 298-9692  
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## **EXECUTIVE SUMMARY**

On February 8, 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 3<sup>rd</sup> floor – Auditor’s area at 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 carpet glue/black mastic in the 3<sup>rd</sup> floor – Auditor’s 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 Michael Sanders

DPW Project No.: 19360

DPW Building No: 2B-06-XX

TRC Project No.: 43500-3250-00001

Asbestos Inspector: Stephen Arienti (LIC #00583)

Date of Inspection: 02/08/06

Asbestos Identified: Yes

### Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing materials associated with carpet renovations to the 3<sup>rd</sup> floor – Auditor's area at 18-20 Trinity Street in Hartford, CT.

# TABLES

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

| <b>Sample No.</b> | <b>Sample Location</b>      | <b>Homogeneous Material</b> | <b>% and Type Asbestos</b> |
|-------------------|-----------------------------|-----------------------------|----------------------------|
| 01                | Auditor's Area -- SW Corner | Carpet glue/black mastic    | 10% chrysotile             |
| 02                | Auditor's Area -- Center    | Carpet glue/black mastic    | 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**

| <b>Material</b>          | <b>Sampled-<br/>Assumed<br/>(mo/yr)</b> | <b>General Location</b>                   | <b>NESHAP<br/>Category</b> | <b>AHERA<br/>Category</b> | <b>Estimated<br/>Quantity</b> |
|--------------------------|---|---|----------------------------|---------------------------|-------------------------------|
| Carpet glue/black mastic | Sampled<br>02/06                        | 3 <sup>rd</sup> floor – Auditor's<br>area | Category I<br>Non-Friable  | Miscellaneous             | ~7,300 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

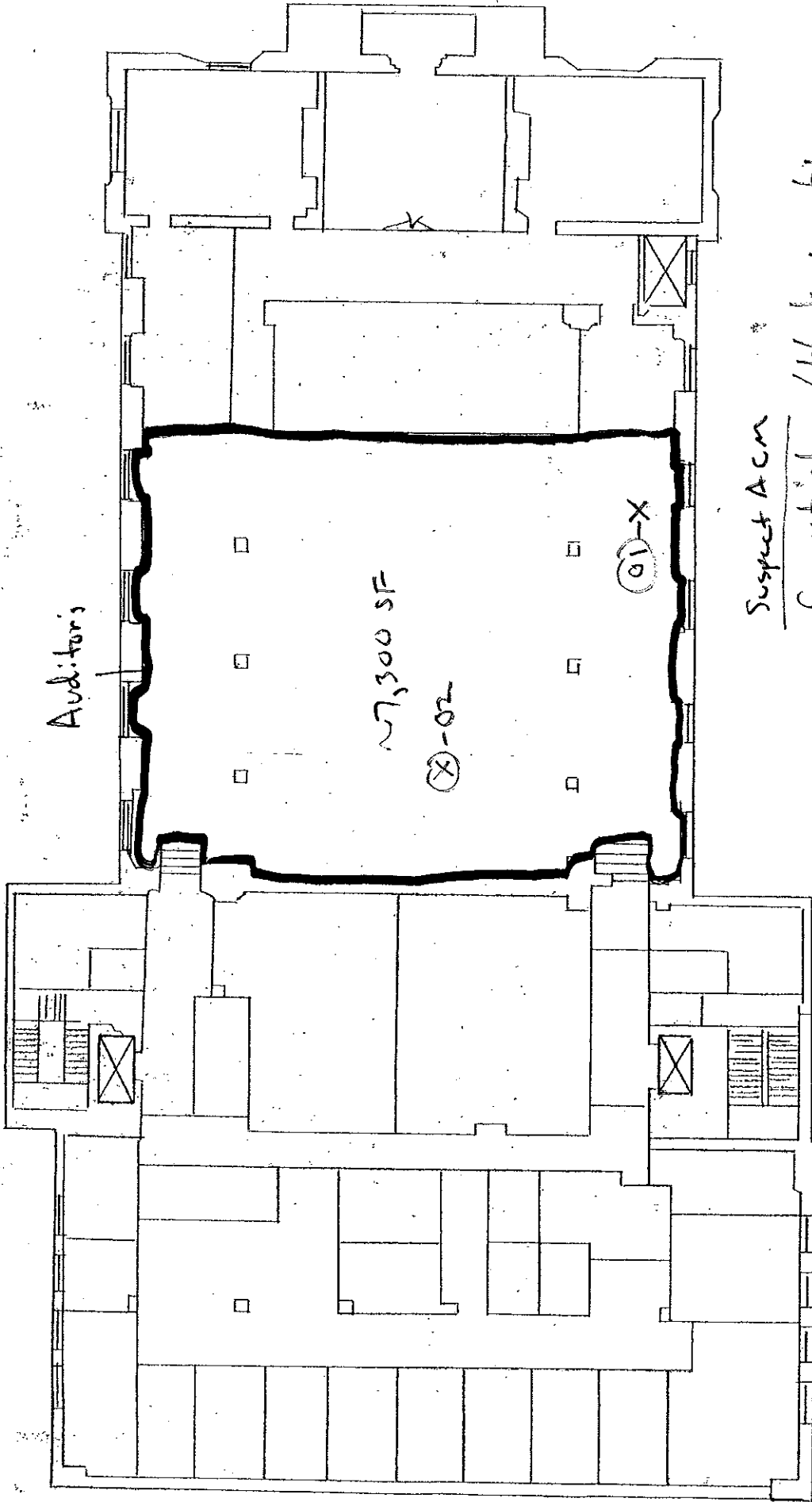
**TABLE 3  
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS  
CEDPW - 18-20 TRINITY STREET  
HARTFORD, CONNECTICUT**

| <b>Material</b>  | <b>General Location</b> |
|--|-------------------------|
| <b>PLM Laboratory Analysis identified all samples as asbestos containing materials (ACM)</b> |                         |



**APPENDIX A**

**SITE SKETCH**



Suspect ACM  
- Carpet glue / black mastic

3RD FLOOR PLAN - 18-20 TRINITY ST

**APPENDIX B**

**LABORATORY AND INSPECTOR ACCREDITATIONS**

# CERTIFICATE OF ACHIEVEMENT

This certifies that

**Stephen Arienti**

has successfully completed the  
**Asbestos Site Inspector Refresher Training  
Asbestos Accreditation Under 15CA Title II  
40 CFR Part 763**

conducted by

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

*Edward X. Hilly*

Principal Instructor  
January 6, 2005  
Date of Course  
January 6, 2006  
Expiration Date

*Gregory J. Morach*

Regional Manager  
STAR-1832  
Certificate Number  
January 6, 2005  
Expiration Date

## 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. 000586

CURRENT THROUGH 04/30/06

VALIDATION NO. 03-1587-13

*Gregory J. Morach*  
Regional Manager

SIGNATURE



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999**

**TRC Environmental Corporation.**

5 Waterside Crossing

Windsor, CT 06095

Mr. Henry Laliberte

Phone: 860-298-9692 Fax: 860-298-6399

E-Mail: [hlaliberte@TRCSolutions.com](mailto:hlaliberte@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

2005-07-01 through 2006-06-30

*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.

## TRC ENVIRONMENTAL CORPORATION

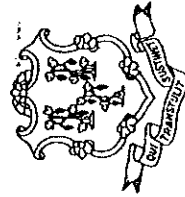
LOCATED AT 21 Griffin Road North IN Windsor, CT 06095  
AND REGISTERED IN THE NAME OF Richard A. Love

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

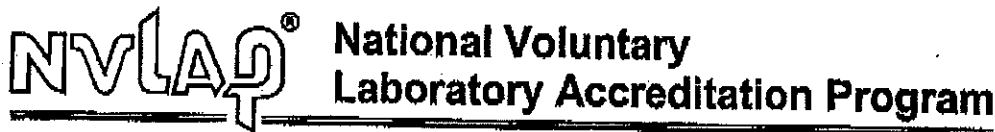
THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 22<sup>ND</sup> DAY OF DECEMBER 2005



Registration  
No.

PH- 0426

*Ellen J. Blaschinski*  
CHIEF, REGULATORY SERVICES BRANCH



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999**

**ProScience Analytical Services, Inc.**  
 22 Cummings Park  
 Woburn, MA 01801-2122  
 Mr. Adrian Stanca  
 Phone: 781-935-3212 Fax: 781-932-4857  
 E-Mail: PASI96@aol.com  
 URL: <http://www.proscience.net>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200090-0**

| <i>NVLAP Code</i> | <i>Designation / Description</i>   |
|-------------------|--|
| 18/A01            | EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples |

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

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:  
Stephen Chace, Co-Director (Chemistry)

#### WASTEWATER, SOLID WASTE/SOIL

Examination for:  
TRACE METALS

PAINT, SOIL, DUST WIPES  
Examination for:  
LEAD

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

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 29th DAY OF DECEMBER 2004



PH-0209

*Ellen J. Blaszynski*

DIRECTOR, DIVISION OF ENVIRONMENTAL HEALTH



## **APPENDIX C**

# **ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS**



21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6399

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: September 2005  
Supersede Previous Edition

PROJECT NUMBER  
43500-3250-00001

LAB ID #. 31984

PROJECT NAME  
D/W - 18-20 Trinity Street  
Hartford, CT

INSPECTOR: (SIGNATURE)

(PRINTED)  
Stephen Ariand

|      |      |      |      |      |
|------|------|------|------|------|
| PLM: | 24hr | 48hr | 3day | 5day |
|      | 24hr | 48hr | 3day | 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 (P > 1% & < 10%) | TEM NY NOB 198.4 (P PLM SERIES NEG) | MATERIAL                   |
|---------------------|--------|------|------|------|---------------------|-------------------------------------|---|------------------|------------------------------|-------------------------------------|----------------------------|
|                     |        |      | COMP | GRAB |                     |                                     |   |                  |                              |                                     |                            |
| 01                  | 2/8/06 | 0930 |      |      | SW Corner - Auditor | X                                   |   |                  |                              | X                                   | Carpet glue / black mastic |
| 02                  | 2/8/06 | 1010 |      |      | Center - Auditor    | X                                   |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |
|                     |        |      |      |      |                     |                                     |   |                  |                              |                                     |                            |

|                                  |  |                              |              |
|----------------------------------|--|------------------------------|--------------|
| Relinquished by: (Signature)<br> | Date: 2/8/06   | Received by: (Signature)<br> | Date: 2/8/06 |
| (Printed)<br>Stephen Ariand      | Time: 1010   | (Printed)<br>[Name]          | Time: 1030   |
| Remarks:                         | Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Comments: |                              |              |

## 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  
Lab Log #: 31984  
Project #: 43500-3250-00001  
Date Received: 02/08/06  
Date Analyzed: 02/08/06

**RESULTS**

| Sample No. | Color        | Homogeneous | Multi-Layered | Layer No. | Other Matrix Mat'ls | Asbestos % | Asbestos Type |
|------------|--------------|-------------|---------------|-----------|---------------------|------------|---------------|
| 01         | Black/Yellow | Yes         | No            | --        | --                  | 10%        | Chrysotile    |
| 02         | Black/Yellow | 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 March 1, 2006. 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:   
Henry J. Laliberte  
Signatory: Laboratory Manager

Date Issued: 2/8/06