

Report of Limited Asbestos Inspection

November 9, 2009

Basement Vault Room
Superior Court Building
Litchfield, Connecticut

State of Connecticut Judicial Branch Facilities Management Group

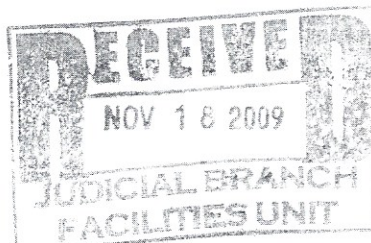
Hartford, Connecticut

November 15 2009



FUSS & O'NEILL
Disciplines to Deliver

Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040





FUSS & O'NEILL
EnviroScience, LLC

Disciplines to Deliver

November 15, 2009

Mr. Vladimir Kubin
Facilities Group
Judicial Branch
State of Connecticut
90 Washington Street
Hartford, CT 06106

RE: **Report of Limited Asbestos Inspection**
November 9, 2009
Basement Vault Room
Superior Court Building
15 West Street, Litchfield, Connecticut
Fuss & O'Neill EnviroScience Project No. 20090612.A7E

Dear Mr. Kubin:

Enclosed is the report for the limited asbestos inspection and bulk sampling performed within the basement vault room at the Superior Court Building located at 15 West Street in Litchfield, Connecticut.

The survey was performed on November 9, 2009 by a Fuss & O'Neill EnviroScience, LLC licensed inspector and included bulk sampling of suspect asbestos containing materials located in the basement vault room within the above mentioned building.

The information summarized in this document is for the above-mentioned materials and locations only. It does not include information on other hazardous materials that may exist in the property (such as additional asbestos containing materials located in the basement vault room and/or throughout the building, lead-based paint, underground storage tanks, PCB-containing ballasts and possible mercury hazards).

146 Hartford Road
Manchester, CT
06040

t (860) 646-2469
f (860) 533-5143

www.FandO.com

Connecticut

Massachusetts

New York

Rhode Island

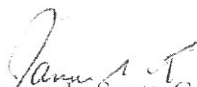
South Carolina

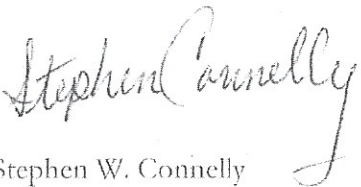


FUSS & O'NEILL

If you have any questions regarding the contents of this report, please do not hesitate to contact me at (860) 646-2469, extension 5552. Thank you for this opportunity to have served your environmental needs.

Sincerely,


James L. Scott, C.I.H.
Project Manager


Stephen W. Connelly
Senior Vice President

JLS:cr

Enclosure

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Limited Asbestos Inspection State of Connecticut Judicial Branch Facilities Management Group

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- APPENDIX B - SITE PHOTOGRAPHS
- APPENDIX C - FUSS & O'NEILL ENVIROSCIENCE ACCREDITATIONS

1 Introduction

Fuss & O'Neill EnviroScience, LLC (EnviroScience) was retained to perform a limited asbestos inspection of the suspect asbestos containing materials within the basement vault room of the Superior Court Building located at 15 West Street in Litchfield, Connecticut. EnviroScience's Environmental Analyst II, Kevin McCarthy, who is a State of Connecticut licensed Asbestos Consultant - Inspector, performed the limited inspection on November 9, 2009.

This limited inspection included collecting bulks samples of the following materials:

- One Coat Grey Plaster
- Paint associated with One Coat Grey Plaster

The inspection was completed in accordance with EnviroScience's written proposal dated November 6, 2009.

2 Limited Asbestos Inspection

During the course of this limited inspection, suspect ACM was separated into three United States Environmental Protection Agency (USEPA) categories. These categories are: Thermal System Insulation (TSI), Surfacing ACM, and Miscellaneous ACM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded insulation on pipe fittings. Surfacing ACM includes all ACM that is sprayed, troweled, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed as TSI or surfacing ACM, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Suspect visible and accessible ACM was sampled and analyzed by Polarized Light Microscopy (PLM) to determine asbestos content.

2.1 Results

Utilizing the USEPA protocol and criteria, neither of the sampled materials was determined to be ACM.

Utilizing the USEPA protocol and criteria, the following sampled materials were determined to be non-ACM:

TABLE 1

MATERIAL TYPE	LOCATION	SAMPLE ID
One Coat Grey Plaster	Basement Vault Room	1109KM01A-C
Paint associated with One Coat Grey Plaster		1109KM02A-C

2.2 Discussion

The USEPA defines any material that contains more than one percent (1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos.

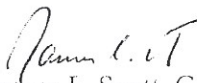
2.3 Conclusion

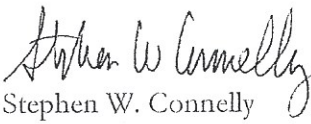
During the course of this limited inspection, six (6) bulk samples of suspect ACM were collected. All sampled materials were determined to be none detected for asbestos.

Please see *Appendix A* for the samples results and chain of custody.

Report prepared by Fuss & O'Neill EnviroScience's Environmental Analyst II Kevin McCarthy.

Reviewed by:


James L. Scott, C.I.H.
Project Manager


Stephen W. Connelly
Senior Vice President

Appendix A

Asbestos Sample Results and Chain of Custody



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fussdo.com

040927 453

(860) 646-2469 Fax (860) 643-6313

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 1

Project Name: State of Connecticut, Judicial Department, Facilities Group Project No. 20090612.A7E Task 00001

Building: Litchfield Courthouse, 15 West Street, Litchfield, CT Project Manager: James Scott

Sample ID	Sample Location	Material	Result (%)
1109KM01A	Basement Vault Room	One Coat Grey Plaster	None Detected
1109KM01B	Basement Vault Room	One Coat Grey Plaster	SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.
1109KM01C	Basement Vault Room	One Coat Grey Plaster	
1109KM02A	Basement Vault Room	Paint associated with One Coat Grey Plaster	
1109KM02B	Basement Vault Room	Paint associated with One Coat Grey Plaster	
1109KM02C	Basement Vault Room	Paint associated with One Coat Grey Plaster	

Analysis Method: PLM Other Turnaround Time 24 hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: 11/11/09. Please call the EnviroScience Laboratory if analyses will be late at (860) 953-2730.

Fax Results to the EnviroScience Laboratory at: 413-647-0018.

Special Instruction: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 point count all samples of asbestos content <4%, positive stop on all point counts.

Samples collected by: Kevin McCarthy Date: 11/09/09 Time: 1:00

Samples [Rec'd] [Sent by] [Same] [Same] Date: [Same] [Same] Time: 16:30

Samples Received by: DM - 1030A Date: 11-10-9 Time:

Shipped To: EMSL State NJ Other

Method of Shipment: Fed Ex UPS Overnight UPS Ground Other



EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 353-4800 Fax: (856) 353-4900 Email: westmontaslab@EMSL.com

Attn: **Kevin McCarthy**
Fuss & O' Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Customer ID: ENVI54
 Customer PO:
 Received: 11/10/09 10:30 AM
 EMSL Order: 040927453

Fax: (413) 647-0018 Phone: (860) 646-2469
 Project: 20090812.A7E TASK 00001 STATE OF CONNECTICUT
 JUDICIAL DEPARTMENT FACILITIES GROUP
 LITCHFIELD COURTHOUSE 15 WEST STREET
 LITCHFIELD CT

EMSL Proj:
 Analysis Date: 11/10/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1109KM01A 040927453-0001	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
1109KM01B 040927453-0002	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
1109KM01C 040927453-0003	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
1109KM02A 040927453-0004	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
1109KM02B 040927453-0005	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
1109KM02C 040927453-0006	BASEMENT VAULT ROOM	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Will DiBella (6)

Stephen Siegel, CIH, Laboratory Manager
 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. The limit of detection as stated in the method is 1%. 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. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAC requirements unless otherwise specified.
 Samples analyzed by EMSL Analytical, Inc. Westmont 107 Haddon Ave., Westmont NJ 08108, NVLAP Lab Code 101048-0, NYS ELAP 10872, NJ DEP 04006



FUSS & O'NEILL
EnviroScience, LLC

Appendix B

Site Photographs



Non-ACM One Coat Plaster and Associated Paint
Basement Vault Room



Non-ACM One Coat Plaster and Associated Paint
Basement Vault Room

Appendix C

Fuss & O'Neill EnviroScience Accreditations

0002743 FP **PRSRT T9 0 0964 06111
 KEVIN MC CARTHY
 FUSS & O' NEILL ENVIROSCIENCE LLC
 795 NORTH MOUNTAIN ROAD
 NEWINGTON CT 06111

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 <http://www.dph.state.ct.us>
 Hartford, CT 06134-0308

Sincerely,

J Robert Galvin, MD, MPH, MBA

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.

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

KEVIN MC CARTHY

LICENSE NO.
 000586
 CURRENT THROUGH
 05/31/10
 VALIDATION NO.
 03-840416

Kevin Mc Carthy
 SIGNATURE

J Robert Galvin, MD, MPH, MBA
 COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
KEVIN MC CARTHY

VALIDATION NO. 03-840416 LICENSE NO. 000586 CURRENT THROUGH 05/31/10
 PROFESSION ASBESTOS CONSULTANT-INSPECTOR

Kevin Mc Carthy *J Robert Galvin, MD, MPH, MBA*
 SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
KEVIN MC CARTHY

VALIDATION NO. 03-840416 LICENSE NO. 000586 CURRENT THROUGH 05/31/10
 PROFESSION ASBESTOS CONSULTANT-INSPECTOR

Kevin Mc Carthy *J Robert Galvin, MD, MPH, MBA*
 SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC.

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Kevin McCarthy

XXX-XX-1999

has successfully completed the
4 Hr. Asbestos Inspector Refresher
Asbestos Accreditation under TSCA Title II
40 CFR Part 763

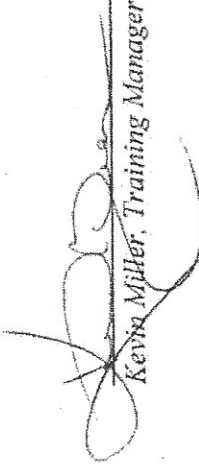

Ashis Roychowdhury, Principal Instructor

September 9, 2009

Date of Course

September 9, 2009; A

Examination Date & Grade


Kevin Miller, Training Manager

AI-R-09/09-6

Certificate Number

September 9, 2010

Expiration Date

Concentra Medical Centers (CT)

555 Lordship Blvd STRATFORD, CT 06615
Phone: (203) 380-5945 Fax: (203) 380-5953

PLHCP¹ WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 01/12/2009

Employee SSN: XXX-XX-1999

Employee Name:
McCarthy, Kevin J.

Address:
59 west ave unit 7

WILFORD CT 06461

Employer: Fuss & O'neill Inc-See Locations

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check one that applies)

- There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ALL that apply)

- ARE qualified to wear a respirator.
- Have the following restrictions concerning respirator usage: _____
- ARE NOT qualified to wear a respirator.
- Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (CT) so that a final decision on your ability to wear a respirator can be made.
- Must wear Special prescription eye-wear needed to accommodate respirator.
- Must use an Eye glass conversion kit.
- May need to shave Facial hair to assure tight seal on certain face masks.
- Need to stop smoking.

(Check ALL that apply)

- The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician.
- This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

CHANDER DEVARAJ, M.D.

PLHCP Name (printed)

¹Physician or other Licensed Healthcare Professional

Employee's Signature

Expiration Date

To be maintained in the employee's file with a copy to the employee



Shaping the Future

December 7, 2012

Mr. Vladimir Kubin
State of Connecticut
Judicial Department
90 Washington Street
Hartford, Connecticut 06106

Cardno ATC

290 Roberts Street
Suite 301
East Hartford, CT 06108

Re: Limited Lead-Based Paint Inspection
Litchfield Courthouse – Restrooms and Lounge
15 West Street
Litchfield, Connecticut
Project JD-12-17
Building 25328
Cardno ATC Project 61.22573.0018 Task 18063

Phone +1 860 282 9924
Fax +1 860 282 9826
www.cardno.com

www.cardnoatc.com

Dear Mr. Kubin:

Cardno ATC (ATC) of East Hartford, Connecticut was retained by the State of Connecticut to conduct a limited lead-based paint inspection at the above referenced site on December 6, 2012. A copy of the Lead Paint Inspection Form and building elevation drawings showing where testing for lead-based paint was conducted are attached to this report.

The inspection was conducted by Scott Johnson, a State of Connecticut Department of Public Health (CTDPH) licensed lead inspector risk assessor (CTDPH License No. 002224). Representative accessible painted building components were tested using X-Ray Fluorescence (XRF). An RMD LPA-1 XRF lead paint analyzer was used to perform lead paint analysis quickly, accurately, and non-destructively by measuring the concentration of lead in painted surfaces. The XRF was programmed to take measurements with 95% confidence down to levels of 0.3 milligrams per square centimeter (mg/cm^2).

The Environmental Protection Agency (EPA), Housing and Urban Development (HUD), and CTDPH define lead-based paint (LBP) as paint containing a lead concentration of $1.0 \text{ mg}/\text{cm}^2$ or greater as measured by XRF analysis. The Occupational Safety and Health Administration (OSHA) define lead-containing material (LCM) as material containing any detectable amount of lead.

Lead tests, utilizing a RMD XRF, Serial #1257, determined various components at the Litchfield Courthouse to have lead - based paint (greater than $1.0 \text{ mg}/\text{cm}^2$). Please refer to XRF Field Data Sheets for a list of all XRF readings. The field data sheets contain the type of component tested, the condition of the paint ("Intact", "Defective"), the type of substrate (such as wood, drywall, etc.) and the color of the component. The locations of the individual tests are also listed as well as the corresponding lead results in (mg/cm^2) as reported by the XRF instrument.

The following table list the building components identified with lead-based paint greater than, or equal to, 1.0 mg/cm²:

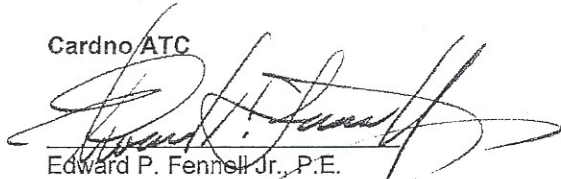
TABLE 1 IDENTIFIED LEAD-BASED PAINT LITCHFIELD COURTHOUSE RESTROOMS AND LOUNGE					
Side	Room	Surface	Substrate	Color	Paint Condition
A	Restroom 3	Upper Wall	Plaster	White	Intact
A	Restroom 3	Lower Wall	Plaster	Yellow	Intact
A, C, D	2 nd Floor Lawyers Lounge	Upper Wall	Plaster	Tan	Damaged
A, C, D	2 nd Floor Lawyers Lounge	Lower Wall	Plaster	Tan	Damaged

Based on XRF analysis, surfaces listed in the preceding table contain lead-based paint. Accordingly, disturbance of the identified materials during renovation or demolition is subject to OSHA and EPA Standards, as detailed in the following section.

Should you have any questions concerning this report, do not hesitate to contact me at 860 282-9924 ext. 1123.

Sincerely,

Cardno/ATC



Edward P. Fennell Jr., P.E.
Building Sciences Division Manager
for Cardno ATC
Direct Line +1 860-282-9924x1123
Email: edward.fennell@cardno.com

Encl.

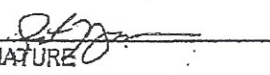
Cc Deborah Levesque, JUD (1 Copy)

Address: Litchfield Courthouse 15 West St. Litchfield, CT

Paint Condition: (I)ntact, (D)amaged, (NC)No Coating Substrate Condition: (G)ood, (F)air, (P)oor
Substrate = (M)etal, (W)ood, (P)laster, (D)rywall, (B)rick, (C)oncrete

0700

READING #	Side	Surface	XRF Result	Paint Condition	Substrate	Substrate Condition	Color	COMMENTS
1		CALIBRATION	1.0	I D NC	M W P D B C	G F P		
2			1.0	I D NC	M W P D B C	G F P		
3			1.0	I D NC	M W P D B C	G F P		
4	A	Upper Wall	0.0	D NC	M W P D B C	G F P	Cream	Bathroom 1
5	A	Lower Wall	0.0	D NC	M W P D B C	G F P	Marble	
6	A	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	"	
7	A	Case Base	0.0	D NC	M W P D B C	G F P	"	
8	B	Upper wall	0.0	D NC	M W P D B C	G F P	Cream	
9	B	Lower wall	0.0	D NC	M W P D B C	G F P	Marble	
10	B	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	"	
11	C	Door Trim	0.0	D NC	M W P D B C	G F P	"	
12	C	Door Casing	0.0	D NC	M W P D B C	G F P	"	
13	C	Door	0.0	D NC	M W P D B C	G F P	Wood	
14	D	Upper Wall	0.0	D NC	M W P D B C	G F P	Cream	
15	D	Lower Wall	0.0	D NC	M W P D B C	G F P	Marble	
16		Ceiling	0.0	D NC	M W P D B C	G F P	Cream	
17	D	Sink	0.0	D NC	M W P D B C	G F P	White	
18	D	Toilet	0.0	D NC	M W P D B C	G F P	White	
19		Floor Tile 12"	0.0	D NC	M W P D B C	G F P	Yellow/Grey	
20	A	Upper wall	0.0	D NC	M W P D B C	G F P	Cream	Bathroom 2
21	A	Lower wall	0.0	D NC	M W P D B C	G F P	Marble	
22	A	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	Marble	
23	B	Upper wall	0.0	D NC	M W P D B C	G F P	Cream	
24	B	Lower wall	0.0	D NC	M W P D B C	G F P	Marble	
25	B	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	Marble	
26	B	Sink	0.0	D NC	M W P D B C	G F P	White	
27	B	Toilet	0.0	D NC	M W P D B C	G F P	White	
28		Casing	0.0	D NC	M W P D B C	G F P	Cream	
29	C	Door	0.0	D NC	M W P D B C	G F P	Wood	
30	C	Door Trim	0.0	D NC	M W P D B C	G F P	Marble	
31	C	Door Casing	0.0	D NC	M W P D B C	G F P	White	
32	D	Upper wall	0.0	D NC	M W P D B C	G F P	Cream	
33	D	Lower wall	0.0	D NC	M W P D B C	G F P	Marble	
34		12" Floor Tile	0.0	D NC	M W P D B C	G F P	Tan	
35		12" Floor Tile	0.0	D NC	M W P D B C	G F P	Grey	
36		Toilet Case	0.0	D NC	M W P D B C	G F P	White	
37	A	Upper wall	4.3	D NC	M W P D B C	G F P	White	Bathroom 3
38	A	Lower wall	3.4	D NC	M W P D B C	G F P	Yellow	
39	A	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	White	
40	B	Upper wall	0.0	D NC	M W P D B C	G F P	White	
41	B	Lower wall	0.0	D NC	M W P D B C	G F P	Yellow	
42	B	1/2 wall Trim	0.0	D NC	M W P D B C	G F P	White	
43	B	Toilet	0.0	D NC	M W P D B C	G F P	White	
44	B	Sink	0.0	D NC	M W P D B C	G F P	White	
45	C	Upper wall	0.0	D NC	M W P D B C	G F P	White	

SIGNATURE 

LICENSE# 000224

DATE 12/6/12

Address: Litchfield Courthouse 15 West St. Litchfield CT

Paint Condition: (I)ntact, (D)amaged, (NC)No Coating Substrate Condition: (G)ood, (F)air, (P)oor
 Substrate = (M)etal, (W)ood, (P)laster, (D)rywall, (B)rick, (C)oncrete

READING #	Side	Surface	XRF Result	Paint Condition	Substrate	Substrate Condition	Color	COMMENTS
46	C	Lower Wall	0.0	D NC	M W P D B C	G F P	Yellow	Bathroom 3
47		Ceiling	0.0	D NC	M W P D B C	G F P	White	
48	D	Brown Lath Base	0.2	D NC	M W P D B C	G F P	Dr. Brown	
49		12" Floor Tile	0.0	D NC	M W P D B C	G F P	Tan	
50	D	Upper Wall	0.0	D NC	M W P D B C	G F P	White	
51	D	Lower Wall	0.0	D NC	M W P D B C	G F P	Yellow	
52	D	Door Trim	0.0	D NC	M W P D B C	G F P	White	
53	D	Door Casing	0.0	D NC	M W P D B C	G F P	Wood	
54	D	Door	0.0	D NC	M W P D B C	G F P	White	
55		Vent Grill	0.0	D NC	M W P D B C	G F P		
56	A	Upper Wall	0.0	D NC	M W P D B C	G F P	Yellow	Bathroom 4
57	A	Lower Wall	0.0	D NC	M W P D B C	G F P	Yellow	
58	A	1/2 Wall Trim	0.0	D NC	M W P D B C	G F P	White	
59	B	Upper Wall	0.0	D NC	M W P D B C	G F P	Yellow	
60	B	Lower Wall	0.0	D NC	M W P D B C	G F P	White	
61	A	Spoke	0.0	D NC	M W P D B C	G F P	White	
62	A	Turret	0.0	D NC	M W P D B C	G F P	White	
63		Cabin Title	0.1	D NC	M W P D B C	G F P	White	
64	C	Door Trim	0.4	D NC	M W P D B C	G F P	White	
65	C	Door Casing	0.2	D NC	M W P D B C	G F P	Wood	
66	C	Door	0.0	D NC	M W P D B C	G F P	Wood	
67	C	Upper Wall	0.0	D NC	M W P D B C	G F P	Yellow	
68	C	Lower Wall	0.0	D NC	M W P D B C	G F P	Yellow	
69	C	1/2 Wall Trim	0.0	D NC	M W P D B C	G F P	White	
70	D	Upper Wall	0.0	D NC	M W P D B C	G F P	Yellow	
71	D	Lower Wall	0.0	D NC	M W P D B C	G F P	Yellow	
72	D	1/2 Wall Trim	0.0	D NC	M W P D B C	G F P	White	
73		Lower Base	0.0	D NC	M W P D B C	G F P	Black	
74		9" Floor Tile	0.0	D NC	M W P D B C	G F P	Agglom	
				D NC	M W P D B C	G F P		2nd floor landing
75	B/C	Upper Wall	1.5	D NC	M W P D B C	G F P	Tan	landing
76	C	Lower Wall	1.1	D NC	M W P D B C	G F P	Tan	
77	C	1/2 Wall Trim	0.0	D NC	M W P D B C	G F P	Wood	
78	D	Upper Wall	1.6	D NC	M W P D B C	G F P	Tan	
79	D	Lower Wall	1.5	D NC	M W P D B C	G F P	Tan	
80	D	Window Sill	0.0	D NC	M W P D B C	G F P	Brown	
81	D	Window Trim	0.0	D NC	M W P D B C	G F P	Brown	
82	D	Case Base	0.0	D NC	M W P D B C	G F P	Black	
83	D	1/2 Wall Trim	0.0	D NC	M W P D B C	G F P	Brown	
84	D	Radiator	0.0	D NC	M W P D B C	G F P	Gray	
85	A	Upper Wall	1.1	D NC	M W P D B C	G F P	Tan	
86	A	Lower Wall	1.1	D NC	M W P D B C	G F P	Tan	
87		CALIBRATIONS	1.0	D NC	M W P D B C	G F P		
88			1.0	D NC	M W P D B C	G F P		
89			1.0	D NC	M W P D B C	G F P		

0755
0759

SIGNATURE 

LICENSE# 0002224

DATE 12/6/12



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE
- ENVIRONMENTAL LEAD
- ENVIRONMENTAL MICROBIOLOGY
- FOOD

- Accreditation Expires: 10/01/2014
- Accreditation Expires:
- Accreditation Expires:
- Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

S. D. Allen Iste, PhD, CIH, CSP
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 12: 03/29/2012

Date Issued: 08/31/2012



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

TRC Environmental Corporation
21 Griffin Road North, Windsor, CT 06095

Laboratory ID: **100122**
Issue Date: 08/31/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 09/01/1984

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/M4-82-020	
			EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Metals <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Organic Solvents <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Silica <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (3M) <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (SKC) <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (AT) <input checked="" type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Asbestos <input type="checkbox"/> AIHA-PAT Programs, LLC Bulk Asbestos (BAPAT) <input type="checkbox"/> AIHA-PAT Programs, LLC Beryllium (BePAT) <input type="checkbox"/> HSE Workplace Analytical Scheme for Proficiency (WASP) (Formaldehyde) <input type="checkbox"/> HSE Workplace Analytical Scheme for Proficiency (WASP) (Thermal Desorption Tubes) | <ul style="list-style-type: none"> <input type="checkbox"/> Pharmaceutical Round Robin <input type="checkbox"/> Compressed/Breathing Air Round Robin <input checked="" type="checkbox"/> National Voluntary Laboratory Accreditation Program (NVLAP - determined at the time of site assessment) <input type="checkbox"/> New York State Department of Health (NYS DOH - PCM and TEM) <input type="checkbox"/> ERA Air and Emissions standards for indoor air quality <input type="checkbox"/> Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, formerly BGIA) <input type="checkbox"/> Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST) |
|--|--|

APPENDIX C

**ASBESTOS BULK SAMPLE CHAIN OF CUSTODY
FORMS**



Edition: October 2009
Supersede Previous Edition

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

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

CT Dept of Administrative Services

LAB ID #: 43033

PROJECT NUMBER
209752.0000.0000

PROJECT NAME
Litchfield Courthouse Litchfield,
CT

PARAMETERS

PLM:	TURNAROUND TIME				
	8hr	24hr	48hr	X	3day
TEM:	24hr	48hr	3day		5day

SIGNATURE

INSPECTOR
Jonathan D. Gentile

MATERIAL

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (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	10/16/13	0740		X	Courtroom 1	X					Mortar-like Textured Ceiling Plaster Skim Coat (PL1)
02	10/16/13	0742		X	Courtroom 1	X					Mortar-like Textured Ceiling Plaster Skim Coat (PL1)
03	10/16/13	0745		X	Courtroom 1	X					Mortar-like Textured Ceiling Plaster Skim Coat (PL1)
04	10/16/13	0808		X	Courtroom 2 Ceiling	X		X			Grey Base/White Skimcoat Plaster (PL2)
05	10/16/13	0809		X	Courtroom 2 Ceiling	X		X			Grey Base/White Skimcoat Plaster (PL2)
06	10/16/13	0810		X	Courtroom 2 Ceiling	X		X			Grey Base/White Skimcoat Plaster (PL2)
07	10/16/13	0800		X	Courtroom 2 Ceiling	X					Textured Ceiling Coating (TC1)
08	10/16/13	0800		X	Courtroom 2 Ceiling	X					Textured Ceiling Coating (TC1)
09	10/16/13	0801		X	Courtroom 2 Ceiling	X					Textured Ceiling Coating (TC1)
10	10/16/13	0904		X	Attic	X					Dk Interior Duct Insulation (DI1)

Relinquished by: (Signature)

Date: 10/16/13

Received by: (Signature) *10/17/13*

Relinquished by: (Signature)

Date:

Received by: (Signature)

Time:

(Printed) *0815*

(Printed)

Time:

(Printed)

Jonathan D. Gentile

Remarks:

Condition of Samples: OK
Acceptable: Yes No
Comments:



Edition: October 2009
Supersede Previous Edition

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

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

LAB ID # 43033

PROJECT NUMBER 209752.0000.0000	PROJECT NAME Litchfield Courthouse Litchfield, CT	PARAMETERS				
INSPECTOR Jonathan D. Gentile		PLM:	8hr	24hr	48hr	X
		TEM:	24hr	48hr	3day	5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (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							
11	10/16/13	0905		X	Attic	X					Dk Interior Duct Insulation (DI1)
12	10/16/13	0906		X	Attic	X					Dk Interior Duct Insulation (DI1)
13	10/16/13	0820		X	Roof-Lg HVAC Unit	X					Black Tar-like Sealant (TS1)
14	10/16/13	0822		X	Roof-Lg HVAC Unit		X				Black Tar-like Sealant (TS1)
15	10/16/13	0830		X	Roof	X					Tar Vapor Barrier on Concrete Roof Deck (VB1)
16	10/16/13	0831		X	Roof		X				Tar Vapor Barrier on Concrete Roof Deck (VB1)
17	10/16/13	0836		X	Roof-Lg HVAC Unit Base	X					Black Flashing Tar (FL1)
18	10/16/13	0838		X	Roof-Lg HVAC Unit Base		X				Black Flashing Tar (FL1)
19	10/16/13	0840		X	Roof at Intersection of Flat and Sloped Roofs	X					Remnant Black Flashing Tar (FL2)
20	10/16/13	0841		X	Roof at Intersection of Flat and Sloped Roofs		X				Remnant Black Flashing Tar (FL2)

Relinquished by: (Signature) 	Date: 10/16/13	Received by: (Signature) 	Date: 10/16/13	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Jonathan D. Gentile	Time:	(Printed) M. Williams	Time: 0815	(Printed)	Time:	(Printed)
Remarks:				Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:		



ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

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

LAB ID # 43053

PROJECT NUMBER 209752.0000.0000	PROJECT NAME Litchfield Courthouse Litchfield, CT	PARAMETERS	TURNAROUND TIME
		PLM: <input type="checkbox"/> 8hr <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input checked="" type="checkbox"/> 3day	
		TEM: <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 3day <input type="checkbox"/> 5day	

SIGNATURE 	INSPECTOR Jonathan D. Gentile	MATERIAL
---------------	----------------------------------	----------

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (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							
21	10/16/13	0852		X	Roof at Intersection of Flat and Sloped Roofs	X					Tan Rubbery Caulk on Metal Flashing (C1)
22	10/16/13	0853		X	Roof at Intersection of Flat and Sloped Roofs		X				Tan Rubbery Caulk on Metal Flashing (C1)
23	10/16/13	0920		X	Basement Office	X					White Fire Door Insulation (FDI1)
24	10/16/13	0921		X	Basement Office	X					White Fire Door Insulation (FDI1)

Relinquished by: (Signature) 	Date: 10/16/13	Received by: (Signature) 	Date: 10/16/13	Relinquished by: (Signature) 	Date: 10/16/13	Received by: (Signature)
(Printed) Jonathan D. Gentile	Time: 0815	(Printed) Jonathan D. Gentile	Time: 0815	(Printed) Jonathan D. Gentile	Time: 0815	(Printed) Jonathan D. Gentile
Remarks:						
Condition of Samples: <input checked="" type="checkbox"/> Acceptable: Yes <input type="checkbox"/> No						
Comments:						

PLM Gravimetric Analysis

Date	Analyst	Lab Log #	Sample ID	Crucible ID	g crucible	g crucible plus sample	g after 480°	Residue decimal	% Asb in residue	% Asb total Sample
10/18/2013	AP	43033	16	25	20.1822	20.1906	20.1893	0.845	0.00	0.00
			18	41	19.7352	19.7665	19.7644	0.933	5.00	4.66

10/21/2013

43033.DCS Gravimetric

APPENDIX D

PLM LABORATORY ANALYSIS DATA



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Construction Services

Lab Log #: 0043033
 Project #: 209752.0000.0000
 Date Received: 10/17/2013
 Date Analyzed: 10/18/2013

Site: Litchfield Courthouse, Litchfield, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	White/Light Grey	Yes	No	--	2% cellulose	ND<1%	None
02	White/Light Grey	Yes	No	--	2% cellulose	ND<1%	None
03	White/Light Grey	Yes	No	--	2% cellulose	ND<1%	None
04	White (skim coat)	No	Yes	1	---	ND<1%	None
04	Grey (base coat)	No	Yes	2	---	ND<1%	None
05	White (skim coat)	No	Yes	1	---	ND<1%	None
05	Grey (base coat)	No	Yes	2	---	ND<1%	None
06	White (skim coat)	No	Yes	1	---	ND<1%	None
06	Grey (base coat)	No	Yes	2	---	ND<1%	None
07	White/Tan	Yes	No	--	---	ND<1%	None
08	White/Tan	Yes	No	--	---	ND<1%	None
09	White/Tan	Yes	No	--	---	ND<1%	None
10	Dark Grey	Yes	No	--	95% fibrous glass	ND<1%	None
11	Dark Grey	Yes	No	--	95% fibrous glass	ND<1%	None
12	Dark Grey	Yes	No	--	95% fibrous glass	ND<1%	None
13	Black	Yes	No	--	---	10%	Chrysotile
14	--	--	--	--	--	NA/PS	--
15	Black	Yes	No	--	---	ND<1%	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
 RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
16♣	Black	Yes	No	--	---	ND<1%	None
17	Black	Yes	No	--	---	Trace	Chrysotile
18♣	Black	Yes	No	--	---	4.66%	Chrysotile
19	Black	Yes	No	--	---	20%	Chrysotile
20	--	--	--	--	--	NA/PS	--
21	Tan	Yes	No	--	---	ND<1%	None
22	Tan	Yes	No	--	---	ND<1%	None
23	White	Yes	No	--	---	30% 10%	Chrysotile Amosite
24	--	--	--	--	--	NA/PS	--

♣Samples analyzed by EPA/600/R-93/116 with gravimetric reduction

Reporting limit- asbestos present at 1%

ND<1% - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

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, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. 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.

Analyzed by: Aud Park
 Amanda Parkins, Laboratory Analyst

Reviewed by: K. Williamson
 Kathleen Williamson, Laboratory Manager

Date Issued
 10/21/2013

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
 RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA

APPENDIX A

ASBESTOS AIR SAMPLE ANALYSIS DATA

AIR SAMPLE ANALYSIS REPORT

Project No.: 809752-000000 Date: 10/17/13 Page of
 Client: CT DCS Sampler Print: J Gentile Signature: JOC Date: 10/17/13
 Site: Litchfield Courthouse Analyst Print: J Gentile Signature: JOC Date: 10/17/13
 Address: 15 West St. QC Analyst Print: A. Pockias Signature: [Signature] Date: 10/22/13
Litchfield CT Lab Supervisor Print: [Signature] Signature: [Signature] Date: 10/23/13

Contact/Name: D LePage Phone: (860)298-6333 Rotometer No.: H-3 Date of Calibration: 5/3/13 Lab No. 43044
 Microscope No. 207274 Received in Lab for Analysis: QC Only:
 Sample Type: PCM TEM Other: Analysis Method: NIOSH 7400 A rules Issue 2 8/15/94 AHERA Other:

Relative Standard Deviation (Sr)	
Range Fibers/fields	Intra-Lab Sr
<20/100	0.369
20.5 to 50/100	0.296
>50/100	0.205

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	01	02	03	04	05	06
Sampling Location/Comments	Main Entrance blw Rms 3/4	Hall w/ls Rms 10/12	1st Rm 12	Top of Stairs to basement	BLANKS	
Type of Sample	1	1	1	1		
Pump Number						
Start Time/Stop Time	0819 0939	0820 0940	0820 0940	0807 0927		
Total Time (min)	80	80	80	80		
Flow Rate	15 15 15 15 15 15	15 15 15 15 15 15	15 15 15 15 15 15	15 15 15 15 15 15		
Total Volume (l)	1200	1200	1200	1200		
FB - BFB FL - BFL	7/100	5/100	6/100	4/100	0/100	
Filter Fiber Conc. (fibers/mm ²)	8.9	6.4	7.6	5.1		
Airborne Fiber Conc. (fibers/cc)	0.003	ND<.002	0.003	ND<.002		

STANDARDS
 <0.01 f/cc - EPA Re-Occupancy Clearance Criteria
 0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
 1.0 f/cc - OSHA 30 min Excursion Level
 ND< - Non Detected, less than the limit of detection
 Limit of Detection - 5.5 fibers/100 fields

Relinquished by: [Signature] Date: 10/17/13 Time
 Received By: [Signature] Date: 10/17/13 Time 1615
 Relinquished by: Date Time
 Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
 CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
 ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
 AIH/PAT#100122

Condition of Sample: OK
 Acceptable: Y N
 Comments:

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
04	2/100	JP 10/22/13	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².