

J.C. Broderick & Associates

JCB

Environmental Engineers, Consultants & Contractors

February 7, 2002

Mr. Bob Dagger
USAA
PO Box 165
Nesconset, New York 11767

Re: Aggressive Asbestos Air Quality Sampling Report Letter
Utilizing Transmission Electron Microscopy (TEM) Method of Analysis at
37 Murray Street
Apartment 5A
New York, New York
Sampling Date: February 4, 2002

JCB#: 02-2564

Dear Mr. Dagger:

J.C. Broderick & Associates, Inc. (JCB) was retained to perform aggressive asbestos in air sampling and analysis at the above referenced site subsequent to detailed cleaning activities performed by Branch Services. The air sampling was performed by a JCB New York State certified air sampling technician. Samples were collected, chain of custody forms prepared, and delivered to an independent ELAP certified laboratory for the presence of asbestos fibers by Transmission Electron Microscopy (TEM).

Aggressive air sampling is a method of air sampling in which the person collecting the air sample creates activity by the use of mechanical equipment during the sampling period to stir up settled dust to simulate activity in that area of the building. Pre-sampling agitation is conducted before the sampling is performed with the use of an electric powered forced air blower (leaf blower). The air blower is then directed against the furnishings, office equipment, walls, ceilings, floors, ledges and other surfaces. This is conducted for an extended period of time (at least five (5) minutes per 1,000 square feet of floor space).

Subsequent to the pre-sampling agitation 20 inch fans are placed throughout the test space (clean room). The fans will be operated on slow speed and are pointed towards the ceiling (at least one fan per 10,000 cubic feet of room space). The air sampling pumps are then turned on. When the air sampling is completed the sampling pumps are turned off, samples removed and the fans are then turned off. Aggressive air sampling is considered the most representative of "worst case scenarios".

The TEM analysis involves collecting airborne contaminants across the face of a polycarbonate or mixed cellulose ester filter. Again, air is drawn across pre-screened filters by the use of portable large volume vacuum pumps. Prior to analyzing, the filter media is collapsed using an acetone vapor technique and then plasma etched. Then fiber structures are counted and analyzed using electron diffraction patterns and, in some cases, energy dispersive X-rays. Under this methodology, all fibers with an aspect ratio greater than 5:1 and a length of at least 0.5 micrometers are counted. TEM analysis can positively identify these fibers as asbestos or non-asbestos.

The United States Environmental Protection Agency (US EPA), as indicated in 40 CFR Part 763 Section 90,

90-7 Colin Drive, Holbrook New York 11741 • Tel: 631-419-0913 • Fax: 631-419-1327

JCB

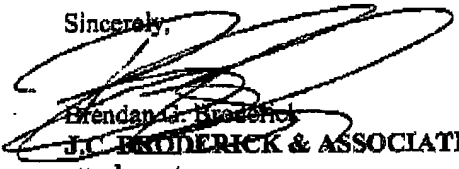
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considers remediation activities complete when the average concentration of asbestos fibers as analyzed by TEM method does not exceed 70 s/mm². As you can see from the attached laboratory report none of samples analyzed revealed any concentrations of asbestos fibers. *

Attached please find a copy of the chain of custody, lab analysis report and a copy of JCB's asbestos handling license. If you have any questions or if more information is needed please call.

Sincerely,


Brendan G. Broderick
J.C. BRODERICK & ASSOCIATES, INC.
attachments

631-584-3647 Fax: 631-360-8267

J.C. Broderick & Associates

J.C. Broderick & Associates, Inc. Asbestos Certification

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, Room 181
STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE**RESTRICTED LICENSE - NO ASBESTOS REMOVAL PERMITTED**

LICENSE NUMBER: **PII**
DATE ISSUED: **06/01/01**
EXPIRATION DATE: **06/30/02**

Contractor: **J.C. Broderick & Associates, Inc.**Address: **101-4 Colin Drive
Holbrook, NY 11741**Duly Authorized Representative: **Brandon Broderick**

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (22 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

**Richard Cuscolo, Director
FOR THE COMMISSIONER OF LABOR**

SH 432 (10-00)

DENNIS MEYERS

MUST BE CARRIED ON ASBESTOS PROJECTS

PII

PU-SH-442 (8/1/91)

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASS
C - SAMPLING TECHNICIAN (65/62)

PII

RICHARD CUSCULO, Director - For the Commissioner of Labor

FEB. 8.2002

4:48PM

J.C. BRODERICK & ASS

NO. 447

P. 5

CHAIN OF CUSTODY DOCUMENT

JCB

J.C. Broderick & Associates

101-4 Colin Drive, Holbrook, NY 11741

631-419-0913 • Fax: 631-584-3395

Bill To: J.C. Broderick & Associates

Accounts Payable

101-4 Colin Drive, Holbrook, NY 11741

Project Name: <u>WALTON</u>		Project Manager: <u>Brendan</u>		Sampler (Signature): <u>[Signature]</u>		Expected Date of Completion	
Project Location: <u>37 Mary Street</u>		Project Number: <u>A-5A</u>		Samplers Name (Print): <u>0-1 A-5A</u>		Laboratory: <u>EMSL</u>	
Client Name: <u>USA</u>		Project Phase: <u>Phase 1</u>		Analysis Date: <u>02-25-04</u>			

Sample ID	Date	Type	Sample Location / Description	Lab #	Time (min.)			Liters			Analysis			Analysis Date		
					Start	Finish	Total	Start	Finish	Volume	Method	MDL	s/mm	slss		
1	2/14	A	Garage 1st fl		12:00	1:50	1:50	10	10	1000	TEM					
2	2/14	A	Childhood bedroom		12:00	1:50	1:50	10	10	1000	TEM					
3	2/14	A	Master bedroom		12:00	1:50	1:50	10	10	1000	TEM					
4	2/14	A	Rem		12:00	1:50	1:50	10	10	1000	TEM					
5			F/O													
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by (Signature): <u>[Signature]</u>	Date: <u>2/14</u>	Printed Name & Agent: <u>S. Conolly</u>	Relinquished by (Signature):	Date:	Printed Name & Agent:
Relinquished by (Signature):	Date:	Printed Name & Agent:	Received for Lab by (Signature):	Date:	Printed Name & Agent:

Comments & Special Instructions

Fax Results to 631-584-3395

White - Laboratory Yellow - Office Pink - Field

EMSL Analytical, Inc.208 Stonchings Lane
Carle Place, NY 11514

Phone: (516) 997-7251 Fax: (516) 997-7528

Attn.: J.C. Broderick
J.C. BRODERICK & ASSOCIATES
101-4 Collin Drive
Holbrook, NY 11741

Wednesday, February 06, 2002

Ref Number: LI022019

**Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)
Performed by EPA 40 CFR Part 763 Final Rule (AHERA)**

Project: 37 MURRAY STREET APT-5A PRJ NO. 02-2564

Sample ID	Volume (liters)	Asbestos Type(s)	# STRUCTURES		Area Analyzed (mm ²)	Analytical Sensitivity (S/cc)	Asbestos Concentration	
			$\geq 0.5\mu$ < 5μ	$\geq 5\mu$ Non-Asbestos			(S/mm ³)	(S/cc)
1	1800.00	None Detected		0	0.0505	0.0042	<19.69	<0.0042
2	1800.00	None Detected		0	0.0508	0.0042	<19.69	<0.0042
3	1800.00	None Detected		0	0.0508	0.0042	<19.69	<0.0042
4	1800.00	None Detected		0	0.0508	0.0042	<19.69	<0.0042

Daniel Clarke
Analyst

Approved
Signatory

Disclaimer: This laboratory is not responsible for data reported in structures, which is dependent on volume collected by non-laboratory personnel. This laboratory is only responsible for data reported in procedures. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analyst accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #10194-19, NY EAP 11466, CA EAP 2020, CT EAP 0249