



August 24, 2015

Mr. Sam Schrecongost
GSA Safety Environment and Fire Protection Branch
301 7th Street, S.W., Room 2080
Washington, D.C. 20407

RE: Annual Fibers-in-Air Survey at 1951 Constitution Avenue, NW (DC0032ZZ)

TTL-Arc Environmental Project Number: 13145.21/639-5.21

Dear Mr. Schrecongost:

In accordance with our Industrial Hygiene Services contract with the General Services Administration (GSA), TTL-Arc Environmental, JV LLC (TTL-Arc) performed the annual fibers-in-air (FIA) survey at 1951 Constitution Avenue, N.W., in Washington, D.C. on August 10, 2015. The sampling event was conducted as part of annual, routine monitoring of existing FIA levels within occupied spaces of the facility.

TTL-Arc's Industrial Hygienist, Mr. Andy Bresko, performed the sampling. Mr. Bresko has received training equivalent to the National Institute for Occupational Safety and Health (NIOSH) 582 course for the sampling and analysis of fibers in air by NIOSH Method 7400.

Methodology

FIA samples were collected to fulfill requirements under GSA FIA protocols. As per the scope of work, 10 ambient air samples were collected using low volume sampling pumps with flow rates equal to or less than 3.5 liters per minute. Flow rates were measured with a rotameter that had been calibrated against a primary standard according to TTL-Arc's Quality Assurance/Quality Control (QA/QC) program. Two field blanks were collected for QA/QC purposes.

A minimum total air volume of 1200 liters (L) was obtained for all samples. Air samples were collected during normal working hours at locations approved by the assigned building manager. Sampling cassettes were located three (3) to five (5) feet above ground to represent the breathing level; the sampling pumps were placed within occupied areas for the duration of the sampling period.

The collected air samples were submitted to EMSL Analytical, Inc. (EMSL), of Beltsville, Maryland for analysis via Phase Contrast Microscopy (PCM) using NIOSH Method 7400. EMSL is a participant in the American Industrial Hygiene Association's (AIHA's) Proficiency Analytical Testing (PAT) program for asbestos-in-air analysis and is an accredited AIHA Industrial Hygiene Laboratory (IHLAP).

Table 1 summarizes the FIA sample location information and the laboratory results for 1951 Constitution Avenue, N.W., (South Interior Building):

Table 1: Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm²)
081015-01	Basement Level – Room 28	<0.002	-
081015-02	Basement Level – Room 34	<0.002	-
081015-03	1 st Floor – Room 120	<0.002	-
081015-04	1 st Floor – Room 151	<0.002	-
081015-05	1 st Floor – Room 138	<0.002	-
081015-06	2 nd Floor – Room 259A	<0.002	-
081015-07	2 nd Floor – Room 225	<0.002	-
081015-08	2 nd Floor – Room 240	<0.002	-
081015-09	3 rd Floor – Room 355D	<0.002	-
081015-10	3 rd Floor – Room 334	<0.002	-
081015-FB1	QA	<5.5 fibers	-
081015-FB2	QA	<5.5 fibers	-

Results

None of the 10 collected air samples yielded PCM results above the 0.01 fibers per cubic centimeter of air (f/cc) threshold for re-occupancy; therefore, no samples were upgraded for analysis using Transmission Electron Microscopy (TEM). No further action is required at this time.

TTL-Arc Environmental is pleased to have performed this air monitoring and analysis for GSA. If you have any questions please call us at (410) 659-9971.

Sincerely,

TTL-Arc Environmental JV, LLC


 Stacy Kahatapitiya, CHMM, LEED GA
 Project Manager


 Richard Barcum, CIH
 Technical Program Manager

Attachment A:
Laboratory Certificate of Analysis

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com>beltsvillelab@emsl.com

EMSL Order: 191509641

CustomerID: ARCE78

CustomerPO:

ProjectID:

Attn: **Andy Bresko**
Arc Environmental
1311 Haubert Street
Baltimore, MD 21230

Phone: (410) 365-6457
 Fax: (410) 962-1065
 Received: 08/11/15 8:30 AM
 Analysis Date: 8/11/2015
 Collected: 8/10/2015

Project: 1951 CONSTITUTION AVE, NW WASHINGTON DC

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
081015-01	RM 28	8/10/2015	1241.20	<5.5	100	0.002	<7.01	<0.002	
191509641-0001									
081015-02	RM 34	8/10/2015	1232.50	<5.5	100	0.002	<7.01	<0.002	
191509641-0002									
081015-03	RM 120	8/10/2015	1229.60	<5.5	100	0.002	<7.01	<0.002	
191509641-0003									
081015-04	RM 151	8/10/2015	1241.20	<5.5	100	0.002	<7.01	<0.002	
191509641-0004									
081015-05	RM 138	8/10/2015	1244.10	<5.5	100	0.002	<7.01	<0.002	
191509641-0005									
081015-06	RM 259A	8/10/2015	1241.20	<5.5	100	0.002	<7.01	<0.002	
191509641-0006									
081015-07	RM 225	8/10/2015	1241.20	<5.5	100	0.002	<7.01	<0.002	
191509641-0007									
081015-08	RM 240	8/10/2015	1238.30	<5.5	100	0.002	<7.01	<0.002	
191509641-0008									
081015-09	RM 355D	8/10/2015	1235.40	<5.5	100	0.002	<7.01	<0.002	
191509641-0009									
081015-10	RM 334	8/10/2015	1235.40	<5.5	100	0.002	<7.01	<0.002	
191509641-0010									

Analyst(s)

Elluz Chong Qui (12)

Joe Centifonti, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.33, 21-50 fibers = 0.26, 51-100 fibers = 0.16. Inter-laboratory Sr. values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC --IHLAP Accredited #102891

Initial report from 08/11/2015 08:09:24

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com>beltsvillelab@emsl.com

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Project: 1951 CONSTITUTION AVE, NW WASHINGTON DC

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm ²	Fibers/cc	Notes
081015-FB1 191509641-0011	FIELD BLANK	8/10/2015		<5.5	100		<7.01		Field Blank
081015-FB2 191509641-0012	FIELD BLANK	8/10/2015		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s)

Elluz Chong Qui (12)

Joe Centifonti, Laboratory Manager
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC --IHLAP Accredited #102891

Initial report from 08/11/2015 08:09:24



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

191509641

PHONE:
FAX:

Company Name: <u>Arce Environmental</u>		EMSL Customer ID:	
Street: <u>1311 Hubert St.</u>		City: <u>Baltimore</u>	State/Province: <u>MD</u>
Zip/Postal Code: <u>21280</u>	Country: <u>USA</u>	Telephone #:	Fax #:
Report To (Name): <u>Andy Bresko</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: <u>abresko@arceenvironmental.com</u>		Purchase Order:	
Project Name/Number: <u>1951 Const; Station Ave. NW</u>		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: <u>Washington DC</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

- 3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples are from NY</p> <p><input checked="" type="checkbox"/> NIOSH 7400</p> <p><input checked="" type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NYS 198.8 SOF-V</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM- Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite*</p> <p><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> TEM Qual. via Filtration Technique</p> <p><input type="checkbox"/> TEM Qual. via Drop-Mount Technique</p> <p><small>*Can not accept New York State Loose Fill Vermiculite Samples</small></p> <p>Other:</p> <p><input type="checkbox"/></p>
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Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Andrew M Bresko Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
081015-01	Room #28	1241.2	08/10/15/0854
-02	Room #34	1232.5	1089
-03	Room #20	1229.6	10505
-04	Room #151	1241.2	10509
-05	Room #138	1244.1	10512
-06	Room #259A	1241.2	10519
-07	Room #225	1241.2	10820

Client Sample # (s): _____ Total # of Samples: 12

Relinquished (Client): [Signature] / Arce Environmental Date: 08/10/15 Time: _____

Received (Lab): [Signature] Date: 8/10/15 Time: 5:15 pm

Comments/Special Instructions: _____

