



December 26, 2014

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 the Department of Interior Udall Building (DC0020ZZ)

TTL-Arc Environmental Project Number: 11892.19/342-3

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 Department of Interior Stewart Lee Udall Building located at 1849 C Street, NW in Washington, D.C. from December 12 thru 18, 2014. 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 Hygienists, Mr. Christopher Younger, CIH and Mr. David Steen, performed the sampling. Mr. Younger and Mr. Steen have 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

Fibers-in-air samples were collected to fulfill requirements under GSA Fibers-in-Air protocols. As per the scope of work, 110 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. Thirteen (13) 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 designated 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 sample number and sample location for each sample are noted on the laboratory chain of custody and the Table 1, below.

The collected air samples were submitted to Scientific Analytical Institute (SAI), of Greensboro, North Carolina for analysis via Phase Contrast Microscopy (PCM) using NIOSH Method 7400. SAI 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

Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm ²)
121214-PH-01	North Penthouse - (8500 West) Health Unit Lobby	<0.0022	-
121214-PH-02	North Penthouse - (Sound Studio Lobby)	<0.0022	-
121214-PH-03	South Penthouse - (Room east of Terrace Lobby)	<0.0022	-
121214-PH-04	South Penthouse - (West Room of Terrace Lobby)	<0.0022	-
121214-7-05	7th Floor - Room 7654	<0.0022	-
121214-7-06	7th Floor - in hallway outside Room 7639	0.0029	-
121214-7-07	7th Floor - Room 7616	<0.0022	-
121214-7-08	7th Floor - Room 7526	<0.0021	-
121214-7-09	7th Floor - Room 7542	<0.0022	-
121214-7-10	7th Floor - Room 7428	<0.0022	-
121214-7-11	7th Floor - Room 7448	<0.0021	-
121214-7-12	7th Floor - Room 7044	<0.0022	-
121214-7-13	7th Floor - Room 7313	<0.0022	-
121214-7-14	7th Floor - In hallway at Room 7354	<0.0022	-
121214-7-15	7th Floor - In hallway at Room 7230	<0.0022	-
121214-7-16	7th Floor - Room 7208	0.0027	-
121214-7-17	7th Floor - Room 7246	0.0024	-
121214-FB-01	Field Blank	<7.0 fibers	-
121214-FB-02	Field Blank	<7.0 fibers	-
121514-6-01	6th Floor - Corridor at Room 6214	<0.0020	-
121514-6-02	6th Floor - Room 6230	<0.0022	-
121514-6-03	6th Floor - Corridor at Room 6246	<0.0018	-
121514-6-04	6th Floor - Room 6027	<0.0019	-
121514-6-05	6th Floor - Room 6359	<0.0019	-
121514-6-06	6th Floor - Corridor at Room 6341	<0.0021	-
121514-6-07	6th Floor - Room 6331	<0.0022	-
121514-6-08	6th Floor - Room 6430	<0.0021	-
121514-6-09	6th Floor - Room 6438	<0.0017	-
121514-6-10	6th Floor - Room 6454	<0.0018	-
121514-6-11	6th Floor - Room 6530	<0.0021	-
121514-6-12	6th Floor - Room 6538	<0.0022	-
121514-6-13	6th Floor - 6600 Security Desk (Lobby)	<0.0019	-
121514-5-14	5th Floor - Room 5261	<0.0020	-
121514-5-15	5th Floor - Room 5230	<0.0021	-
121514-5-16	5th Floor - Room 5025	<0.0020	-
121514-5-17	5th Floor - Room 5331	<0.0021	-
121514-5-18	5th Floor - Room 5339	<0.0020	-
121514-FB-01	Field Blank	<7.0 fibers	-
121514-FB-02	Field Blank	<7.0 fibers	-
121614-5-01	5th Floor - Room 5416	<0.0022	-
121614-5-02	5th Floor - Room 5429	<0.0021	-
121614-5-03	5th Floor - Room 5455	<0.0022	-

121614-5-04	5th Floor - Room 5531	<0.0022	-
121614-5-05	5th Floor - Room 5555	<0.0022	-
121614-5-06	5th Floor - Room 5558	<0.0022	-
121614-5-07	5th Floor - Room 5639	<0.0022	-
121614-5-08	5th Floor - Room 5612	<0.0021	-
121614-4-09	4th Floor - Room 4209	<0.0022	-
121614-4-10	4th Floor - Room 4254	<0.0022	-
121614-4-11	4th Floor -Room 5416	<0.0022	-
121614-4-12	4th Floor - Room 5429	<0.0022	-
121614-4-13	4th Floor - Room 5455	<0.0022	-
121614-4-14	4th Floor - Room 5531	<0.0022	-
121614-4-15	4th Floor - Room 5555	<0.0022	-
121614-4-16	4th Floor - Room 5558	<0.0022	-
121614-4-17	4th Floor - Room 5639	<0.0022	-
121614-4-18	4th Floor - Room 5612	<0.0022	-
121614-4-19	4th Floor - Room 4209	<0.0022	-
121614-4-20	4th Floor - Room 4254	<0.0022	-
121614-4-21	4th Floor -Room 4621	<0.0021	-
121614-M-22	Mechanical Floor - Wing 2 East	<0.0022	-
121614-M-23	Mechanical Floor - Wing 3 West	<0.0022	-
121614-M-24	Mechanical Floor - Wing 5 East	<0.0022	-
121614-M-25	Mechanical Floor - Wing 6 West	<0.0022	-
121614-FB-01	Field Blank	<7.0 fibers	-
121614-FB-02	Field Blank	<7.0 fibers	-
121614-FB-03	Field Blank	<7.0 fibers	-
121714-3-01	3 rd Floor – Room 3209	<0.0022	-
121714-3-02	3 rd Floor – Room 3230	<0.0022	-
121714-3-03	3 rd Floor – Room 3247	<0.0022	-
121714-3-04	3 rd Floor - Room 3023	<0.0022	-
121714-3-05	3 rd Floor – Room 3328	<0.0022	-
121714-3-06	3 rd Floor – Room 3354	<0.0022	-
121714-3-07	3 rd Floor – Room 3419	<0.0022	-
121714-3-08	3 rd Floor – Room 3438	<0.0022	-
121714-3-09	3 rd Floor – Room 3509	<0.0022	-
121714-3-10	3 rd Floor – Room 3531	<0.0022	-
121714-3-11	3 rd Floor – Room 3543	0.0034	-
121714-3-12	3 rd Floor – Room 3628	<0.0021	-
121714-3-13	3 rd Floor – Room 3640	<0.0022	-
121714-2-14	2 nd Floor – Room 2735	<0.0022	-
121714-2-15	2 nd Floor – Room 2230	<0.0021	-
121714-2-16	2 nd Floor – Room 2262	<0.0021	-
121714-2-17	2 nd Floor – Room 2356	<0.0022	-
121714-2-18	2 nd Floor – Room 2341	<0.0022	-
121714-2-19	2 nd Floor – Room 2329	<0.0022	-
121714-2-20	2 nd Floor – Room 2747	<0.0022	-
121714-2-21	2 nd Floor – Room 2453	<0.0022	-

121714-2-22	2 nd Floor – Room 2505	<0.0022	-
121714-2-23	2 nd Floor – Room 2546	<0.0022	-
121714-2-24	2 nd Floor – Room 2612	<0.0022	-
121714-2-25	2 nd Floor – Room 2650	<0.0022	-
121714-FB-01	Field Blank	<7.0 fibers	-
121714-FB-02	Field Blank	<7.0 fibers	-
121714-FB-03	Field Blank	<7.0 fibers	-
121814-1-01	1st Floor -Room 1040	<0.0022	-
121814-1-02	1st Floor - Room 1637	<0.0022	-
121814-1-03	1st Floor - Room 1651	<0.0022	-
121814-1-04	1st Floor - Room 1608	0.0024	-
121814-1-05	1st Floor - Room 1515	<0.0022	-
121814-1-06	1st Floor - Room 1555	<0.0022	-
121814-1-07	1st Floor - Room 1430	<0.0022	-
121814-1-08	1st Floor - Room 1741	<0.0022	-
121814-1-09	1st Floor - Room 1359	<0.0022	-
121814-1-10	1st Floor - Room 1531	<0.0022	-
121814-1-11	1st Floor - Museum	<0.0022	-
121814-1-12	1st Floor - Main lobby at south entry security desk	0.0042	-
121814-1-13	1st Floor - Room 1231	<0.0022	-
121814-B-14	Basement - Room B004	<0.0022	-
121814-B-15	Basement - Room B017	<0.0022	-
121814-B-16	Basement - Room B250	<0.0022	-
121814-B-17	Basement - Room B021	<0.0022	-
121814-B-18	Basement - Room B029 (mechanical room)	<0.0022	-
121814-B-19	Basement - Hallway at Carson Conf. Room	<0.0022	-
121814-B-20	Basement - Cafeteria Kitchen (hallway at manager office)	<0.0022	-
121814-B-21	Basement - Fitness Club (rear area at restrooms)	<0.0022	-
121814-B-22	Basement - Main hallway at north elevator lobby	<0.0022	-
121814-B-23	Basement - Main hallway at Credit Union	<0.0022	-
121814-B-24	Basement - Kiowa Conference Room	<0.0022	-
121814-B-25	Basement - Trash Compactor/Garbage process rooms	<0.0022	-
121814-FB-01	Field Blank	<7.0 fibers	-
121814-FB-02	Field Blank	<7.0 fibers	-
121814-FB-03	Field Blank	<7.0 fibers	-

Results

Of the 110 samples, none 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

A handwritten signature in black ink that reads "Stacy Kahatapitiya". The signature is written in a cursive style and is contained within a light gray rectangular box.A handwritten signature in blue ink that reads "C. L. Younger". The signature is written in a cursive style and is positioned above the printed name.

Christopher Younger, CIH
Industrial Hygienist Manager – National Region

Attachment A:
Laboratory Certificates of Analysis