



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 the Department of Interior Udall Building (DC0020ZZ)

TTL-Arc Environmental Project Number: 13145.19/639-5.17

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 (DOI) Stewart Lee Udall (Udall) Building located at 1849 C Street, N.W., in Washington, D.C. The survey was performed from August 10 through August 18, 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 Hygienists, Mr. Andy Bresko and Mr. David Steen, performed the sampling. Mr. Bresko 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.

Per standard GSA sampling protocols, air monitoring was not conducted in any areas undergoing renovation or construction within the building. At the Udall Building, construction and renovation activities were on-going on the 7th Floor down through the Basement of Wing 1, including the 1st Floor auditorium and library.

Methodology

FIA samples were collected to fulfill requirements under GSA FIA 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. Fourteen (14) 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 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, below, summarizes the FIA sample location information and the laboratory results for the Department of Interior Udall Building.

Table 1: Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm²)
081115-01	Basement 2 nd Wing, Main Corridor	<0.0022	-
081115-02	Basement Mechanical Room B266	0.0026	-
081115-03	Basement Cafeteria, 4 th Wing	<0.0022	-
081115-04	Basement Cafeteria, 3 rd Wing	<0.0026	-
081115-05	Basement Hallway across from Barber Shop	<0.0026	-
081115-06	Basement Recycling Station	<0.0022	-
081115-07	Basement Gym by Lockers	<0.0022	-
081115-08	North Penthouse - North Lounge	<0.0022	-
081115-09	North Penthouse - Adjacent to Nursing Station	<0.0022	-
081115-10	South Penthouse - South Recycling Room	<0.0022	-
081115-11	South Penthouse - North Recycling Room	<0.0022	-
081115-12	1 st Floor – 3 rd Wing, 1300 Corridor, East	<0.0022	-
081115-13	1 st Floor – 3 rd Wing, 1300 Corridor, West	<0.0022	-
081115-14	1 st Floor – 4 th Wing, 1400 Corridor, East	<0.0022	-
081115-15	1 st Floor – 4 th Wing, 1400 Corridor, Wes	<0.0022	-
081115-16	1 st Floor – 5 th Wing, 1500 Corridor, West	<0.0022	-
081115-17	1 st Floor – Room 1083 (Fed Ex Office)	<0.0022	-
081115-FB1	Field Blank	<7.0 fibers	-
081115-FB2	Field Blank	<7.0 fibers	-
081215-2-01	2 nd Floor - Room 2735	<0.0022	-
081215-2-02	2 nd Floor - Room 2213	<0.0022	-
081215-2-03	2 nd Floor - Room 2313	<0.0022	-
081215-2-04	2 nd Floor - Room 2420	<0.0022	-
081215-2-05	2 nd Floor - Room 2025	<0.0022	-
081215-2-06	2 nd Floor - Room 2262 (temporary Library)	<0.0022	-
081215-2-07	2 nd Floor - Room 2458	<0.0022	-
081215-2-08	2 nd Floor - Room 2557	<0.0022	-
081215-2-09	2 nd Floor - Room 2505	<0.0021	-
081215-2-10	2 nd Floor - Room 2628	<0.0021	-
081215-2-11	2 nd Floor - Room 2603	<0.0022	-
081215-2-12	2 nd Floor - Room 2640	<0.0022	-
081215-3-13	3 rd Floor - Room 3213	<0.0022	-
081215-3-14	3 rd Floor - Room 3254	<0.0022	-
081215-3-15	3 rd Floor - Room 3025	<0.0022	-
081215-3-16	3 rd Floor - Room 3354	<0.0022	-

Table 1: Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm ²)
081215-3-17	3 rd Floor - Room 3327	<0.0021	-
081215-3-18	3 rd Floor - Room 3449	<0.0021	-
081215-3-19	3 rd Floor - Room 3420	<0.0022	-
081215-3-20	3 rd Floor - Freight Elevator 24 Lobby	<0.0021	-
081215-FB-01	QA/QC - Field Blank	<7.0 fibers	-
081215-FB-02	QA/QC - Field Blank	<7.0 fibers	-
081315-3-01	3 rd Floor -Room 3524	0.0024	-
081315-3-02	3 rd Floor - Room 3547	0.0024	-
081315-3-03	3 rd Floor - 3600 Hall at Center Lobby Area	<0.0022	-
081315-3-04	3 rd Floor - Room 3616	<0.0022	-
081315-3-05	3 rd Floor - Room 3662	<0.0022	-
081315-4-06	4 th Floor - Room 4633	0.0035	-
081315-4-07	4 th Floor - Room 4660	<0.0022	-
081315-4-08	4 th Floor - Room 4538	0.0024	-
081315-4-09	4 th Floor - Room 4512	<0.0022	-
081315-4-10	4 th Floor - Freight Elevator #24 Lobby	<0.0022	-
081315-4-11	4 th Floor - Room 4438	<0.0022	-
081315-4-12	4 th Floor - Room 4412	<0.0022	-
081315-4-13	4 th Floor - Main Hall at Wing 3	0.0032	-
081315-4-14	4 th Floor - Room 4312	<0.0021	-
081315-4-15	4 th Floor - Room 4347	<0.0022	-
081315-4-16	4 th Floor - Room 4254	<0.0022	-
081315-4-17	4 th Floor - Room 4209	<0.0022	-
081315-FB-01	QA/QC - Field Blank	<7.0 fibers	-
081315-FB-02	QA/QC - Field Blank	<7.0 fibers	-
081415-5-01	5 th Floor - Freight Elevator at Room 5025	<0.0022	-
081415-5-02	5 th Floor - Freight Elevator #24 Lobby	<0.0022	-
081415-5-03	5 th Floor - Room 5217	<0.0022	-
081415-5-04	5 th Floor - Room 5238	<0.0022	-
081415-5-05	5 th Floor - Room 5256	<0.0022	-
081415-5-06	5 th Floor - Room 5308	<0.0022	-
081415-5-07	5 th Floor - Room 5339	<0.0022	-
081415-5-08	5 th Floor - Room 5358A	<0.0022	-
081415-5-09	5 th Floor - Room 5429	<0.0022	-
081415-5-10	5 th Floor - Room 5438	<0.0022	-
081415-5-11	5 th Floor - Room 5510	<0.0022	-
081415-5-12	5 th Floor - Room 5623	<0.0022	-
081415-5-13	5 th Floor - Room 5650	<0.0022	-
081415-5-14	5 th Floor - Room 5071	<0.0022	-
081415-6-15	6 th Floor - Freight Elevator #24 Lobby	<0.0022	-
081415-6-16	6 th Floor - Room 6230	<0.0022	-

Table 1: Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm ²)
081415-6-17	6 th Floor - Room 6214	<0.0022	-
081415-6-18	6 th Floor - Room 6256	<0.0022	-
081415-6-19	6 th Floor - Room 6023	<0.0022	-
081415-6-20	6 th Floor - Room 6034	<0.0022	-
081415-6-21	6 th Floor - Room 6357	<0.0022	-
081415-FB-01	QA/QC - Field Blank	<7.0 fibers	-
081415-FB-02	QA/QC - Field Blank	<7.0 fibers	-
081715-MER-01	Mechanical Room - SE Corner	<0.0022	-
081715-MER-02	Mechanical Room - SW Corner	<0.0022	-
081715-MER-03	Mechanical Room - Center	<0.0022	-
081715-MER-04	Mechanical Room - NW Corner	<0.0022	-
081715-MER-05	Mechanical Room - Corner	<0.0022	-
081715-B-06	Basement - Room BO17	<0.0022	-
081715-B-07	Basement - Room B243	<0.0022	-
081715-B-08	Basement - Main Hall at Stairway 31	<0.0022	-
081715-B-09	Basement - Main Hall at B073	<0.0022	-
081715-B-10	Basement - Kiowa Room	<0.0022	-
081715-1-11	1 st Floor - Room 1023 (Indian Craft Shop)	<0.0022	-
081715-1-12	1 st Floor - Room 1025	<0.0022	-
081715-6-13	6 th Floor - Main hall at Wing 4 intersection	<0.0022	-
081715-6-14	6 th Floor - Room 6454	<0.0022	-
081715-6-15	6 th Floor - 6530	<0.0022	-
081715-6-16	6 th Floor - 6512	<0.0022	-
081715-6-17	6 th Floor - 6538	<0.0022	-
081715-6-18	6 th Floor - 6637	<0.0022	-
081715-6-19	7 th Floor - Elevator 24 Lobby	<0.0022	-
081715-6-20	7 th Floor - Elevator 25 Lobby	<0.0022	-
081715-7-21	7 th Floor - Room 7230	<0.0022	-
081715-7-22	7 th Floor - Room 7212	<0.0022	-
081715-7-23	7 th Floor - Room 7251	<0.0022	-
081715-7-24	7 th Floor - Room 7327	<0.0022	-
081715-7-25	7 th Floor - Room 7352	<0.0022	-
081715-7-26	7 th Floor - Room 7434	<0.0022	-
081715-FB-01	QA/QC - Field Blank	<7.0 fibers	-
081715-FB-02	QA/QC - Field Blank	<7.0 fibers	-
081715-FB-03	QA/QC - Field Blank	<7.0 fibers	-
081715-FB-04	QA/QC - Field Blank	<7.0 fibers	-
081815-7-01	7 th Floor - Freight Elevator #25 Lobby	0.0044	-
081815-7-02	7 th Floor - Freight Elevator #24 Lobby	<0.0022	-
081815-7-03	7 th Floor - Room 7454	0.0028	-
081815-7-04	7 th Floor - Room 7418	<0.0022	-

Table 1: Fibers-in-air Sampling and Analysis Summary			
Sample Number	Location	PCM Results (f/cc)	TEM Results (S/mm ²)
081815-7-05	7 th Floor - Room 7539	<0.0022	-
081815-7-06	7 th Floor - Room 7525	<0.0022	-
081815-7-07	7 th Floor - Room 7646	<0.0022	-
081815-7-08	7 th Floor - Room 7623	<0.0022	-
081815-1-09	1 st Floor - Main Hall, North	<0.0022	-
081815-1-10	1 st Museum - Rear Area past Exhibits	<0.0022	-
081815-FB-01	QA/QC - Field Blank	<7.0 fibers	-
081815-FB-02	QA/QC - Field Blank	<7.0 fibers	-

Results

None of the collected 110 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 Certificates of Analysis



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Andy Bresko

Lab Order ID: 1515647

Analysis ID: 1515647_PCM

Date Received: 8/12/2015

Project: FIA DOI Udall Bldg

Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081115-01	Basement 2nd wing main corridor	1218 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_1		385 mm ²	100			
081115-02	Basement mechanical rm B266	1212 L	6.5	8.3	0.0022	0.0026
1515647PCM_2		385 mm ²	100			
081115-03	Basement cafeteria near 4th wing cash registers	1206 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_3		385 mm ²	100			
081115-04	Basement cafeteria near 3rd wing recycling receptacle	1024 L	< 5.5	< 7.0	0.0026	< 0.0026
1515647PCM_4		385 mm ²	100			
081115-05	Basement hallway across from barber shop	1024 L	< 5.5	< 7.0	0.0026	< 0.0026
1515647PCM_5		385 mm ²	100			
081115-06	Basement recycling station	1204 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_6		385 mm ²	100			
081115-07	Basement gym by lockers	1204 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_7		385 mm ²	100			
081115-08	North penthouse north lounging area	1206 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_8		385 mm ²	100			

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Christopher Subudhi (19)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Andy Bresko

Lab Order ID: 1515647

Analysis ID: 1515647_PCM

Date Received: 8/12/2015

Project: FIA DOI Udall Bldg

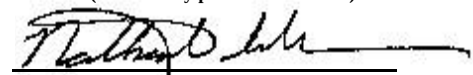
Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081115-09	North penthouse adjacent to nursing station	1206 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_9		385 mm ²	100			
081115-10	South penthouse south recyclable receptacle	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_10		385 mm ²	100			
081115-11	South penthouse north recycalbe receptacle	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_11		385 mm ²	100			
081115-12	1st flr 3rd wing 1300 corridor east side	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_12		385 mm ²	100			
081115-13	1st flr 3rd wing 1300 corridor west side	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_13		385 mm ²	100			
081115-14	1st flr 4th wing 1400 corridor east side	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_14		385 mm ²	100			
081115-15	1st flr 4th wing 1400 corridor west side	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_15		385 mm ²	100			
081115-16	1st flr 5th wing 1500 corridor west side	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_16		385 mm ²	100			

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Christopher Subudhi (19)

Analyst


Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Andy Bresko

Lab Order ID: 1515647

Analysis ID: 1515647_PCM

Date Received: 8/12/2015

Project: FIA DOI Udall Bldg

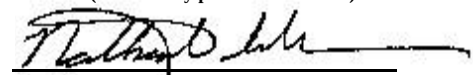
Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081115-17	1st flr rm # 1083 Fed Ex office	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1515647PCM_17		385 mm ²	100			
081115-FB1	Field blank	0 L	< 5.5	< 7.0	N/A	N/A
1515647PCM_18		385 mm ²	100			
081115-FB2	Field blank	0 L	< 5.5	< 7.0	N/A	N/A
1515647PCM_19		385 mm ²	100			

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Christopher Subudhi (19)

Analyst


Approved Signatory



Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 1515047
 Client Code: _____

Company Contact Information	
Company: <u>Arc Environmental</u>	Contact: <u>Andy Bresko</u>
Address: <u>1311 Humber St.</u>	Phone ☐ :
<u>Bethesda, MD 20830</u>	Fax ☐ :
	Email ☒ : <u>abresko@arcenvironmental.com</u>

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. ☐	48 Hours ☐
Contact:	3 Hours ☐	72 Hours ☐
Address:	6 Hours ☐	96 Hours ☐
	12 Hours ☐	120 Hours ☐
	24 Hours ☒	144+ Hours ☐

PO Number:
Project Name/Number: <u>FIA DOI Udall Bldg.</u>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	☐
Positive stop	☐
PLM Point Count 400 (PT4)	☐
PLM Point Count 1000 (PTM)	☐
PCM NIOSH 7400-A Rules (PCM)	☒
B Rules (PCB) ☐ TWA (PTA) ☐	
TEM AHERA (AHE)	☐
TEM Level II (LII)	☐
TEM NIOSH 7402 (TNI)	☐
TEM Bulk Qualitative (TBL)	☐
TEM Bulk Chatfield (TBS)	☐
TEM Bulk Quantitative (TBQ)	☐
TEM Wipe ASTM D6480-05	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2 (TW1)	☐
Other:	☐

Sample ID #		Volume/Area	Comments
081115-01	Basement 2nd wing main corridor	1218	
-02	" " Mechanical RM B266	1212	
-03	" " Cafeteria near 4th wing cash register	1206	
-04	" " Cafeteria near 3rd wing recycling receptacle	1204	
-05	" " hallway across from hair barbershop	1204	
-06	" " Recycling Station	1204	
-07	" " Gym by lockers	1204	
-08	North Penthouse North Lounge Area	1206	
-09	" " Adjacent to Nursing Station	1206	
-10	South Penthouse South Recyclable receptacle	1200	
-11	" " North Recyclable receptacle	1206	

Total # of Samples 19

Relinquished by	Date/Time	Received by	Date/Time
<u>Andy Bresko</u>	<u>08/11/15 1730</u>		



Client Code: _____

Page 2 of 2
A-F-017 EXP: 12-1-13



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515760

Analysis ID: 1515760_PCM

Date Received: 8/13/2015

Project: DOI Udall TTL #13145.19

Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081215-2-01	2nd Floor - Room 2735	1210.56 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_1		385 mm ²	100			
081215-2-02	2nd Floor - Room 2213	1210.56 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_2		385 mm ²	100			
081215-2-03	2nd Floor - Room 2313	1213.68 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_3		385 mm ²	100			
081215-2-04	2nd Floor - Room 2420	1210.32 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_4		385 mm ²	100			
081215-2-05	2nd Floor - Room 2025	1209.375 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_5		385 mm ²	100			
081215-2-06	2nd Floor - Room 2262 (temp. Library)	1203.76 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_6		385 mm ²	100			
081215-2-07	2nd Floor - Room 2458	1220.61 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_7		385 mm ²	100			
081215-2-08	2nd Floor - Room 2557	1222.275 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_8		385 mm ²	100			

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Bart Huber (22)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515760

Analysis ID: 1515760_PCM

Date Received: 8/13/2015

Project: DOI Udall TTL #13145.19

Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081215-2-09	2nd Floor - Room 2505	1284.81 L	< 5.5	< 7.0	0.0021	< 0.0021
1515760PCM_9		385 mm ²	100			
081215-2-10	2nd Floor - Room 2628	1281.42 L	< 5.5	< 7.0	0.0021	< 0.0021
1515760PCM_10		385 mm ²	100			
081215-2-11	2nd Floor - Room 2603	1240.62 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_11		385 mm ²	100			
081215-2-12	2nd Floor - Room 2640	1220.16 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_12		385 mm ²	100			
081215-3-13	3rd Floor - Room 3213	1206.15 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_13		385 mm ²	100			
081215-3-14	3rd Floor - Room 3254	1230.615 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_14		385 mm ²	100			
081215-3-15	3rd Floor - Room 3025	1202.925 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_15		385 mm ²	100			
081215-3-16	3rd Floor - Room 3354	1247.52 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_16		385 mm ²	100			

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Bart Huber (22)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515760

Analysis ID: 1515760_PCM

Date Received: 8/13/2015

Project: DOI Udall TTL #13145.19

Date Reported: 8/13/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081215-3-17	3rd Floor - Room 3327	1254.3 L	< 5.5	< 7.0	0.0022	< 0.0021
1515760PCM_17		385 mm ²	100			
081215-3-18	3rd Floor - Room 3449	1287.81 L	< 5.5	< 7.0	0.0021	< 0.0021
1515760PCM_18		385 mm ²	100			
081215-3-19	3rd Floor - Room 3420	1237.285 L	< 5.5	< 7.0	0.0022	< 0.0022
1515760PCM_19		385 mm ²	100			
081215-3-20	3rd Floor - Freight Elevator 24 Lobby	1273.85 L	< 5.5	< 7.0	0.0021	< 0.0021
1515760PCM_20		385 mm ²	100			
081215-FB-01	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515760PCM_21		385 mm ²	100			
081215-FB-02	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515760PCM_22		385 mm ²	100			

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Bart Huber (22)

Analyst

Approved Signatory

1515760

Client: Arc Environmental, Inc.
Contact: Stacy Kahatapitiya
Address: 1311 Haubert Street - Baltimore, MD
Phone: 410-659-9971
Fax: 410-962-1065
Email: skahatapitiya@arcenvironmental.com

Project: DOI Udall
 (Shipment 3 of 7)
Client Notes: TTL #13145.19

P.O. #:
Date Submitted: 08/12/2015 1700 hrs.

Analysis: PCM
TurnAroundTime: 12-hr

***Instructions:**

Use Column "B" for your contact info

To See an Example Click the
bottom Example Tab.

Enter samples between "<<" and "

amples with a "<<" above the first

nd with a ">>" below the last sample

Enter your data on the first sheet "S

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Institute



Note: Data 1 and Data 2 are optional. 302-L Pomona Dr.
 Data 1 is that do not show up on the office Greensboro, NC 27407
 report, however they will be included. Phone: 336.292.3888
 the electronic data returned to you. Fax: 336.292.3313
 Date your reintegration of the report. Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
081215-2-01	2nd Floor - Room 2735	1210.56	
081215-2-02	2nd Floor - Room 2213	1210.56	
081215-2-03	2nd Floor - Room 2313	1213.68	
081215-2-04	2nd Floor - Room 2420	1210.32	
081215-2-05	2nd Floor - Room 2025	1209.375	
081215-2-06	2nd Floor - Room 2262 (temp. Library)	1203.76	
081215-2-07	2nd Floor - Room 2458	1220.61	
081215-2-08	2nd Floor - Room 2557	1222.275	
081215-2-09	2nd Floor - Room 2505	1284.81	
081215-2-10	2nd Floor - Room 2628	1281.42	
081215-2-11	2nd Floor - Room 2603	1240.62	
081215-2-12	2nd Floor - Room 2640	1220.16	
081215-3-13	3rd Floor - Room 3213	1206.15	
081215-3-14	3rd Floor - Room 3254	1230.615	
081215-3-15	3rd Floor - Room 3025	1202.925	
081215-3-16	3rd Floor - Room 3354	1247.52	
081215-3-17	3rd Floor - Room 3327	1254.3	
081215-3-18	3rd Floor - Room 3449	1287.81	

Accepted ☒
 Rejected ☐

8-13
 10:30

1515760

081215-3-19	3rd Floor - Room 3420	1237.285
081215-3-20	3rd Floor - Freight Elevator 24 Lobby	1273.85
081215-FB-01	QA/QC - Field Blank	NA
081215-FB-02	QA/QC - Field Blank	NA



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515870

Analysis ID: 1515870_PCM

Date Received: 8/14/2015

Project: DOI Udall (GSA Project) TTL
#13145.19

Date Reported: 8/14/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081315-3-01	3rd Floor -Room 3524	1209.58 L	6	7.6	0.0022	0.0024
1515870PCM_1		385 mm ²	100			
081315-3-02	3rd Floor - Room 3547	1206.51 L	6	7.6	0.0022	0.0024
1515870PCM_2		385 mm ²	100			
081315-3-03	3rd Floor - 3600 Hall at center lobby area	1209.58 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_3		385 mm ²	100			
081315-3-04	3rd Floor - Room 3616	1203.44 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_4		385 mm ²	100			
081315-3-05	3rd Floor - Room 3662	1200.37 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_5		385 mm ²	100			
081315-4-06	4th Floor - Room 4633	1200.37 L	9	11	0.0022	0.0035
1515870PCM_6		385 mm ²	100			
081315-4-07	4th Floor - Room 4660	1203.44 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_7		385 mm ²	100			
081315-4-08	4th Floor - Room 4538	1206.51 L	6	7.6	0.0022	0.0024
1515870PCM_8		385 mm ²	100			

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Philip Szabo (19)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515870

Analysis ID: 1515870_PCM

Date Received: 8/14/2015

Project: DOI Udall (GSA Project) TTL
#13145.19

Date Reported: 8/14/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081315-4-09	4th Floor - Room 4512	1203.44 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_9		385 mm ²	100			
081315-4-10	4th Floor - Freight Elevator #24 lobby	1209.58 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_10		385 mm ²	100			
081315-4-11	4th Floor -Room 4438	1206.51 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_11		385 mm ²	100			
081315-4-12	4th Floor - Room 4412	1203.44 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_12		385 mm ²	100			
081315-4-13	4th Floor - Main hall at Wing 3	1206.51 L	8	10.	0.0022	0.0032
1515870PCM_13		385 mm ²	100			
081315-4-14	4th Floor - Room 4312	1270.65 L	< 5.5	< 7.0	0.0021	< 0.0021
1515870PCM_14		385 mm ²	100			
081315-4-15	4th Floor - Room 4347	1229.28 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_15		385 mm ²	100			
081315-4-16	4th Floor - Room 4254	1203.44 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_16		385 mm ²	100			

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Philip Szabo (19)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515870

Analysis ID: 1515870_PCM

Date Received: 8/14/2015

Project: DOI Udall (GSA Project) TTL
#13145.19

Date Reported: 8/14/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081315-4-17	4th Floor - Room 4209	1216.8 L	< 5.5	< 7.0	0.0022	< 0.0022
1515870PCM_17		385 mm ²	100			
081315-FB-01	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515870PCM_18		385 mm ²	100			
081315-FB-02	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515870PCM_19		385 mm ²	100			

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Philip Szabo (19)

Analyst

Approved Signatory

1515870

Client: Arc Environmental, Inc.
Contact: Stacy Kahatapitiya
Address: 1311 Haubert Street - Baltimore, MD
Phone: 410-659-9971
Fax: 410-962-1065
Email: skahatapitiya@arcenvironmental.com

Project: DOI Udall (GSA Project)
 (Shipment 4 of 7)
Client Notes: TTL #13145.19

P.O. #: GSA Project Pricing
Date Submitted: 08/13/2015 1700 hrs.

Analysis: PCM
TurnAroundTime: 12-hr

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mples with a "<<" above the first
 and with a ">>" below the last sample
 Enter your data on the first sheet "S

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Note: Data 1 and Data 2 are optional. 302-L Pomona Dr.
 Samples that do not show up on the office Greensboro, NC 27407
 report, however they will be included. Phone: 336.292.3888
 the electronic data returned to you. Fax: 336.292.3313
 State your reintegration of the report. Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
081315-3-01	3rd Floor -Room 3524	1209.58	
081315-3-02	3rd Floor - Room 3547	1206.51	
081315-3-03	3rd Floor - 3600 Hall at center lobby area	1209.58	
081315-3-04	3rd Floor - Room 3616	1203.44	
081315-3-05	3rd Floor - Room 3662	1200.37	
081315-4-06	4th Floor - Room 4633	1200.37	
081315-4-07	4th Floor - Room 4660	1203.44	
081315-4-08	4th Floor - Room 4538	1206.51	
081315-4-09	4th Floor - Room 4512	1203.44	
081315-4-10	4th Floor - Freight Elevator #24 lobby	1209.58	
081315-4-11	4th Floor -Room 4438	1206.51	
081315-4-12	4th Floor - Room 4412	1203.44	
081315-4-13	4th Floor - Main hall at Wing 3	1206.51	
081315-4-14	4th Floor - Room 4312	1270.65	
081315-4-15	4th Floor - Room 4347	1229.28	
081315-4-16	4th Floor - Room 4254	1203.44	
081315-4-17	4th Floor - Room 4209	1216.8	
081315-FB-01	QA/QC - Field Blank	NA	

Accepted ☒

Reject ☐

8-14
 noon

081315-FB-02

QA/QC - Field Blank

NA

1515870



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515982

Analysis ID: 1515982_PCM

Date Received: 8/17/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/17/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081415-5-01	5th Floor - Freight Elevator at Room 5025	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_1		385 mm ²	100			
081415-5-02	5th Floor - Freight Elevator #24 lobby	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_2		385 mm ²	100			
081415-5-03	5th Floor - Room 5217	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_3		385 mm ²	100			
081415-5-04	5th Floor - Room 5238	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_4		385 mm ²	100			
081415-5-05	5th Floor - Room 5256	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_5		385 mm ²	100			
081415-5-06	5th Floor - Room 5308	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_6		385 mm ²	100			
081415-5-07	5th Floor - Room 5339	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_7		385 mm ²	100			
081415-5-08	5th Floor - Room 5358A	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_8		385 mm ²	100			

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Sharon Donald (23)

Analyst


Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515982

Analysis ID: 1515982_PCM

Date Received: 8/17/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/17/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081415-5-09	5th Floor - Room 5429	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_9		385 mm ²	100			
081415-5-10	5th Floor - Room 5438	1201.43 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_10		385 mm ²	100			
081415-5-11	5th Floor - Room 5510	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_11		385 mm ²	100			
081415-5-12	5th Floor - Room 5623	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_12		385 mm ²	100			
081415-5-13	5th Floor - Room 5650	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_13		385 mm ²	100			
081415-5-14	5th Floor - Room 5071	1201.43 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_14		385 mm ²	100			
081415-6-15	6th Floor - Freight Elevator #24 Lobby	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_15		385 mm ²	100			
081415-6-16	6th Floor - Room 6230	1201.43 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_16		385 mm ²	100			

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Sharon Donald (23)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya

Lab Order ID: 1515982

Analysis ID: 1515982_PCM

Date Received: 8/17/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

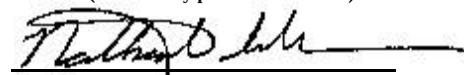
Date Reported: 8/17/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081415-6-17	6th Floor - Room 6214	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_17		385 mm ²	100			
081415-6-18	6th Floor - Room 6256	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_18		385 mm ²	100			
081415-6-19	6th Floor - Room 6023	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_19		385 mm ²	100			
081415-6-20	5th Floor - Room 6034	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_20		385 mm ²	100			
081415-6-21	6th Floor - Room 6357	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1515982PCM_21		385 mm ²	100			
081415-FB-01	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515982PCM_22		385 mm ²	100			
081415-FB-02	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1515982PCM_23		385 mm ²	100			

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Sharon Donald (23)

Analyst


Approved Signatory

1515982

Client: Arc Environmental, Inc.
Contact: Stacy Kahatapitiya/David Steen
Address: 1311 Haubert Street - Baltimore, MD
Phone: 410-659-9971
Fax: 410-962-1065
Email: skahatapitiya@arcenvironmental.com
 dsteen@tlassoc.com
Project: DOI Udall (GSA Project)
 (Shipment 5 of 7)
Client Notes: TTL #13145.17
P.O. #: GSA Project Pricing
Date Submitted: 08/14/2015 1830 hrs.
Analysis: PCM
TurnAroundTime: 12-hr

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To See an Example Click the
 bottom Example Tab.

Enter samples between "<<" and "
 samples with a "<<" above the fir
 and with a ">>" below the last sa
 Enter your data on the first sheet "S

Scientific
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Note: Data 1 and Data 2 are optional. 302-L Pomona Dr.
 Samples that do not show up on the office Greensboro, NC 27407
 report, however they will be included. Phone: 336.292.3888
 the electronic data returned to you. Fax: 336.292.3313
 Date your reintegration of the report. Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
---------------	--------	--------------------	--------

<<			
081415-5-01	5th Floor - Freight Elevator at Room 5025	1214.11	
081415-5-02	5th Floor - Freight Elevator #24 lobby	1214.11	
081415-5-03	5th Floor - Room 5217	1210.94	
081415-5-04	5th Floor - Room 5238	1210.94	
081415-5-05	5th Floor - Room 5256	1210.94	
081415-5-06	5th Floor - Room 5308	1210.94	
081415-5-07	5th Floor - Room 5339	1210.94	
081415-5-08	5th Floor - Room 5358A	1210.94	
081415-5-09	5th Floor - Room 5429	1207.77	
081415-5-10	5th Floor - Room 5438	1201.43	
081415-5-11	5th Floor - Room 5510	1204.6	
081415-5-12	5th Floor - Room 5623	1204.6	
081415-5-13	5th Floor - Room 5650	1204.6	
081415-5-14	5th Floor - Room 5071	1201.43	
081415-6-15	6th Floor - Freight Elevator #24 Lobby	1204.6	
081415-6-16	6th Floor - Room 6230	1201.43	
081415-6-17	6th Floor - Room 6214	1207.77	
081415-6-18	6th Floor - Room 6256	1204.6	

Accepted ☒

Rejected ☐

[Signature]
 8-17 10A

151 5982

081415-6-19	6th Floor - Room 6023
081415-6-20	5th Floor - Room 6034
081415-6-21	6th Floor - Room 6357
081415-FB-01	QA/QC - Field Blank
081415-FB-02	QA/QC - Field Blank

1204.6
1204.6
1204.6
NA
NA



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516054

Analysis ID: 1516054_PCM

Date Received: 8/18/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/18/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081715-MER-01	Mechanical Room - SE Corner	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_1		385 mm ²	100			
081715-MER-02	Mechanical Room - SW Corner	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_2		385 mm ²	100			
081715-MER-03	Mechanical Room - Center	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_3		385 mm ²	100			
081715-MER-04	Mechanical Room - NW Corner	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_4		385 mm ²	100			
081715-MER-05	Mechanical Room - Corner	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_5		385 mm ²	100			
081715-B-06	Basement - Room BO17	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_6		385 mm ²	100			
081715-B-07	Basement - Room B243	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_7		385 mm ²	100			
081715-B-08	Basement - Main hall at Stairway 31	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_8		385 mm ²	100			

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Bart Huber (30)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516054

Analysis ID: 1516054_PCM

Date Received: 8/18/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/18/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081715-B-09	Basement - Main hall at BO73	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_9		385 mm ²	100			
081715-B-10	Basement - Kiowa Room	1200 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_10		385 mm ²	100			
081715-1-11	1st Floor - Room 1023 (Indian Craft Shop)	1209 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_11		385 mm ²	100			
081715-1-12	1st Floor - Room 1025	1209 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_12		385 mm ²	100			
081715-6-13	6th Floor - Main hall at Wing 4 intersection	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_13		385 mm ²	100			
081715-6-14	6th Floor - Room 6454	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_14		385 mm ²	100			
081715-6-15	6th Floor - 6530	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_15		385 mm ²	100			
081715-6-16	6th Floor - 6512	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_16		385 mm ²	100			

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Airborne Fiber Analysis

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NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516054

Analysis ID: 1516054_PCM

Date Received: 8/18/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/18/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081715-6-17	6th Floor - 6538	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_17		385 mm ²	100			
081715-6-18	6th Floor - 6637	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_18		385 mm ²	100			
081715-7-19	7th Floor - Elevator 24 Lobby	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_19		385 mm ²	100			
081715-7-20	7th Floor - Elevator 25 Lobby	1217.28 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_20		385 mm ²	100			
081715-7-21	7th Floor - Room 7230	1220.45 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_21		385 mm ²	100			
081715-7-22	7th Floor - Room 7212	1226.79 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_22		385 mm ²	100			
081715-7-23	7th Floor - Room 7251	1226.79 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_23		385 mm ²	100			
081715-7-24	7th Floor - Room 7327	1226.79 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_24		385 mm ²	100			

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Bart Huber (30)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516054

Analysis ID: 1516054_PCM

Date Received: 8/18/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

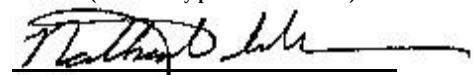
Date Reported: 8/18/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081715-7-25	7th Floor - Room 7352	1217.28 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_25		385 mm ²	100			
081715-7-26	7th Floor - Room 7434	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1516054PCM_26		385 mm ²	100			
081715-FB-01	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516054PCM_27		385 mm ²	100			
081715-FB-02	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516054PCM_28		385 mm ²	100			
081415-FB-03	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516054PCM_29		385 mm ²	100			
081415-FB-04	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516054PCM_30		385 mm ²	100			

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Bart Huber (30)

Analyst


Approved Signatory

1516054

Client: Arc Environmental, Inc.
Contact: Stacy Kahatapitiya/David Steen
Address: 1311 Haubert Street - Baltimore, MD
Phone: 410-659-9971
Fax: 410-962-1065
Email: skahatapitiya@arcenvironmental.com
 dsteen@tlassoc.com
Project: DOI Udall (GSA Project)
 (Shipment 6 of 7)
Client Notes: TTL #13145.17

P.O. #. GSA Project Pricing
Date Submitted: 08/17/2015 1830 hrs.

Analysis: PCM
TurnAroundTime: 12-hr

***Instructions:**
 Use Column "B" for your contact info

To See an Example Click the
 bottom Example Tab.

Enter samples between "<<" and "
 samples with a "<<" above the first
 and with a ">>" below the last sample
 Enter your data on the first sheet "S

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Note: Data 1 and Data 2 are optional. 302-L Pomona Dr.
 Data that do not show up on the office Greensboro, NC 27407
 report, however they will be included. Phone: 336.292.3888
 the electronic data returned to you Fax: 336.292.3313
 Date your reintegration of the report Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
081715-MER-01	Mechanical Room - SE Corner	1200	
081715-MER-02	Mechanical Room - SW Corner	1200	
081715-MER-03	Mechanical Room - Center	1200	
081715-MER-04	Mechanical Room - NW Corner	1200	
081715-MER-05	Mechanical Room - Corner	1200	
081715-B-06	Basement - Room BO17	1200	
081715-B-07	Basement - Room B243	1200	
081715-B-08	Basement - Main hall at Stairway 31	1200	
081715-B-09	Basement - Main hall at BO73	1200	
081715-B-10	Basement - Kiowa Room	1200	
081715-1-11	1st Floor - Room 1023 (Indian Craft Shop)	1209	
081715-1-12	1st Floor - Room 1025	1209	
081715-6-13	6th Floor - Main hall at Wing 4 intersection	1214.11	
081715-6-14	6th Floor - Room 6454	1210.94	
081715-6-15	6th Floor - 6530	1210.94	
081715-6-16	6th Floor - 6512	1207.77	
081715-6-17	6th Floor - 6538	1204.6	
081715-6-18	6th Floor - 6637	1207.77	

Accepted ☒
 Rejected ☐

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081715- 6 -19	7th Floor - Elevator 24 Lobby	1214.11
081715- 6 -20	7th Floor - Elevator 25 Lobby	1217.28
081715-7-21	7th Floor - Room 7230	1220.45
081715-7-22	7th Floor - Room 7212	1226.79
081715-7-23	7th Floor - Room 7251	1226.79
081715-7-24	7th Floor - Room 7327	1226.79
081715-7-25	7th Floor - Room 7352	1217.28
081715-7-26	7th Floor - Room 7434	1214.11
081715-FB-01	QA/QC - Field Blank	NA
081715-FB-02	QA/QC - Field Blank	NA
081415-FB-03	QA/QC - Field Blank	NA



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516144

Analysis ID: 1516144_PCM

Date Received: 8/19/2015

Project: DOI Udall (GSA Project) TTL
#13145.17

Date Reported: 8/19/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081815-7-01	7th Floor - Freight elevator 25 lobby	1214.11 L	11	14	0.0022	0.0044
1516144PCM_1		385 mm ²	100			
081815-7-02	7th Floor - Freight elevator 24 lobby	1214.11 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_2		385 mm ²	100			
081815-7-03	7th Floor - Room 7454	1214.11 L	7	8.9	0.0022	0.0028
1516144PCM_3		385 mm ²	100			
081815-7-04	7th Floor - Room 7418	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_4		385 mm ²	100			
081815-7-05	7th Floor - Room 7539	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_5		385 mm ²	100			
081815-7-06	7th Floor - Room 7525	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_6		385 mm ²	100			
081815-7-07	7th Floor - Room 7646	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_7		385 mm ²	100			
081815-7-08	7th Floor - Room 7623	1204.6 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_8		385 mm ²	100			

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Philip Szabo (12)

Analyst

Approved Signatory



Airborne Fiber Analysis

By Phase Contrast Microscopy
NIOSH 7400, Issue 2, (A Counting Rules)



Customer: ARC Environmental
1311 Haubert Rd
Baltimore, MD 21230

Attn: Stacy Kahatapitiya
David Steen

Lab Order ID: 1516144

Analysis ID: 1516144_PCM

Date Received: 8/19/2015

Project: DOI Udall (GSA Project) TTL
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Date Reported: 8/19/2015

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
081815-1-09	1st Floor - Main hall at north end	1210.94 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_9		385 mm ²	100			
081815-1-10	1st Museum - rear area past exhibits	1207.77 L	< 5.5	< 7.0	0.0022	< 0.0022
1516144PCM_10		385 mm ²	100			
081815-FB-01	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516144PCM_11		385 mm ²	100			
081815-FB-02	QA/QC - Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
1516144PCM_12		385 mm ²	100			

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Philip Szabo (12)

Analyst

Approved Signatory

1516144

Client: TTL - Arc Environmental JV
Contact: Stacy Kahatapitiya/David Steen
Address: 1311 Haubert Street - Baltimore, MD
Phone: 410-659-9971
Fax: 410-962-1065
Email: skahatapitiya@arcenvironmental.com
dsteen@ttlassoc.com
Project: DOI Udall (GSA Project)
 (Shipment 7 of 7)
Client Notes: TTL #13145.17

P.O. #: GSA Project Pricing
Date Submitted: 08/18/2015 1830 hrs.

Analysis: PCM
TurnAroundTime: 12-hr

***Instructions:**
 Use Column "B" for your contact info

To See an Example Click the
 bottom Example Tab.

Enter samples between "<<" and "
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 and with a ">>" below the last sample
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Scientific
 Analytical
 Institute



Note: Data 1 and Data 2 are optional. 302-L Pomona Dr.
 Samples that do not show up on the office Greensboro, NC 27407
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 the electronic data returned to you. Fax: 336.292.3313
 Date your reintegration of the report. Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
081815-7-01	7th Floor - Freight elevator 25 lobby	1214.11	
081815-7-02	7th Floor - Freight elevator 24 lobby	1214.11	
081815-7-03	7th Floor - Room 7454	1214.11	
081815-7-04	7th Floor - Room 7418	1210.94	
081815-7-05	7th Floor - Room 7539	1210.94	
081815-7-06	7th Floor - Room 7525	1207.77	
081815-7-07	7th Floor - Room 7646	1204.6	
081815-7-08	7th Floor - Room 7623	1204.6	
081815-1-09	1st Floor - Main hall at north end	1210.94	
081815-1-10	1st Museum - rear area past exhibits	1207.77	
081815-FB-01	QA/QC - Field Blank	NA	
081815-FB-02	QA/QC - Field Blank	NA	

Accepted ☒

Rejected ☐

[Signature] 8-19
 10A