

North Kansas City, Missouri 64117 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

September 3, 2019

Diane Czarnecki Industrial Hygienist Facilities Management Division GSA Public Buildings Service – Heartland Region 2300 Main Street Kansas City, Missouri 64108

RE: Side-by-Side Environmental Sampling Report – Bldg. 103

Goodfellow Federal Center 4300 Goodfellow Boulevard, St. Louis, MO 63120 Project Number: 919103

Ms. Czarnecki,

In response to an ongoing Occupational Safety and Health Administration (OSHA) inspection of the Goodfellow Federal Center (GFC) located at the above referenced address, OCCU-TEC Inc. (OCCU-TEC) was contracted by the General Services Administration (GSA) to collect representative environmental samples from various locations throughout the building. OCCU-TEC was instructed to collect samples for the same contaminants at approximately half of the same locations as the OSHA inspector.

OCCU-TEC collected samples from Building 103 on July 29th & 30th, 2019. The air samples were analyzed for asbestos, Arsenic, Cadmium, and Lead. Settled dust samples were analyzed for Arsenic, Cadmium, and Lead.

Results indicated detectible levels of Arsenic, Cadmium, and/or Lead dust in eight of the settled dust samples. All samples collected ranged <0.50 micrograms per square foot (μ g/sf) to 0.76 μ g/sf of Arsenic, <0.005 μ g/sf to 2.0 μ g/sf of Cadmium, and <0.25 μ g/sf to 4.9 μ g/sf of Lead.

The samples collected were only indicative of the time of the sample and were not collected as 8-hour Time Weighted Average (TWA) for comparison to the OSHA permissible exposure limits (PELs). Analytical results from the independent laboratory are attached.

Please note that the results of this investigation are only applicable to the time of sampling and the current activities being completed at the time of sampling. Conditions at the site may have changed resulting in higher or lower concentrations that were not measured during this investigation. This report has been prepared for the sole use of the GSA. Use by other parties is expressly forbidden without the expressed written consent of the GSA and OCCU-TEC.

OCCU-TEC appreciates the opportunity to provide the GSA with the above references sampling services. If you have any questions, please contact us at (816) 231-5580.

Sincerely,





ASBESTOS (PCM) RESULTS





Airborne Fiber Analysis

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



Customer: OCCU-TEC Inc. Attn: Ju

2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117

Project: 919103-Building 103-GFC

Attn: Justin Arnold

Lab Order ID: 71919998

Analysis ID: 1919998_PCM

Date Received: 7/30/2019

Date Reported: 8/3/2019

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
103-AA-01	2nd Floor Column E 35 - Floor	872.1 L	< 5.5	< 7.0	0.0031	< 0.0031
71919998PCM_1		385 mm 2	100	< 7.0	0.0031	~ 0.0031
103-AA-02	1st Floor Column H3 - File Cabinet	641.25 L	< 5.5	< 7.0	0.0042	< 0.0042
71919998PCM_2		385 mm 2	100	< 7.0	0.0042	< 0.0042
103-AA-03	2nd Floor Column F5 1/2 - Cubical	638.4 L	< 5.5	< 7.0	0.0042	< 0.0042
71919998PCM_3		385 mm 2	100	< 7.0	0.0042	< 0.0042
103-AA-04	Blank	0 L	< 5.5	< 7.0	N T/A	NT/A
71919998PCM_4		385 mm 2	100	< 7.0	N/A	N/A
103-AA-05	Blank	0 L	< 5.5	< 7.0	NI/A	NI/A
71919998PCM_5		385 mm 2	100	< 7.0	N/A	N/A

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190 Unless otherwise noted blank sample correction was not performed on analytical results. Analytical uncertainty available upon request. (Laboratory precision: Sr: 0.45

Sharon Donald (5)

(b) (6)

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:	71919998
Client Code: _	

Company Contact Information			Asbestos Test Typ	es
Company: OCCU-TEC INC	Contact: Justin	Arnold	PLM EPA 600/R-93/116 (PLM)	
Address:	Phone 2:814	810 - 3274	Positive stop	
2404 NE Industrial Drive Snik 230	Fax :		PLM Point Count 400 (PT4)	
North Kansas City, Me G4117	Email Dijamolo	Boccutec.com	PLM Point Count 1000 (PTM)	
//			PCM NIOSH 7400-A Rules (PCM)	X
Billing/Invoice Information	Turn Aro	und Times	B Rules (PCB) TWA (PTA	4) 🗆
Company: Same	90 Min.	48 Hours	TEM AHERA (AHE)	
Contact:	3 Hours	72 Hours	TEM Level II (LII)	
Address:	6 Hours	96 Hours	TEM NIOSH 7402 (TNI)	
	12 Hours	120 Hours	TEM Bulk Qualitative (TBL)	
	24 Hours	144 ⁺ Hours	TEM Bulk Chatfield (TBS)	
			TEM Bulk Quantitative (TBQ)	
PO Number:			TEM Wipe ASTM D6480-05	
Project Name/Number: 919103 - Buil	ding 103 -	GFC	TEM Microvac ASTM D5755-02	
	3		TEM Water EPA 100.2 (TW1)	
			Other:	

Sample ID#		Volume/Area	Comments
103-AA-01	2nd Floor Column E 35 - Floor	877.1 4	
03-AA -02	1st floor Column H3 - File Cabinet	641.25L	
03-AA-03	2nd floor Column F51/2 - Cubical	438.4 L	
03-AA-04	BLANK	NA	
03-AA-05	BLANK	NA	

Total # of Samples 5

\cap	Relinquished by	Date/Time	Received by	Date/Time
(b) (6)		7-29-14		

METALS IN AIR RESULTS





Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH Method 7303

Client: OCCU-TEC Inc.

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117

Project: 919103 – Building 103 - GFC

Attn: Justin Arnold Lab Order ID:

Date Received:
Date Reported:

71919993 07/30/2019

e Reported: 08/06/2019 Page: 1 of 1

Sample ID	Description	Volume	Element	Reporting Limit	Concentration	Concentration
Lab Sample ID	Lab Notes	(L)		Linit (μg)	(µg)	$(\mu g/m^3)$
103-MctA-01	2 nd Floor Column E		As	0.25	< 0.25	< 0.29
103-MCtA-01	33 – Floor	866.4	Cd	0.025	< 0.025	< 0.029
71919993IPA_1			Pb	0.13	< 0.13	< 0.15
102 M. (A 02	1st Floor Column G2		As	0.25	< 0.25	< 0.39
103-MctA-02	- Kevin's Cubical	641.25	Cd	0.025	< 0.025	< 0.039
71919993IPA_2			Pb	0.13	< 0.13	< 0.20
102 M. (A. 02	2 nd Floor Column G 5		As	0.25	< 0.25	< 0.39
103-MctA-03	½ - Cubical	644.1	Cd	0.025	< 0.025	< 0.039
71919993IPA_3			Pb	0.13	< 0.13	< 0.20
102 M. A. 04	2 nd Floor Column F39		As	0.25	< 0.25	< 0.55
103-MctA-04	– Window Sill	456	Cd	0.025	< 0.025	< 0.055
71919993IPA_4			Pb	0.13	< 0.13	< 0.29
102 Mat A 05	Blank		As	0.25	< 0.25	-
103-MctA-05	Віапк	-	Cd	0.025	< 0.025	-
71919993IPA_5			Pb	0.13	< 0.13	-

Melissa Ferrell

Analyst

Lab Director

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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:	10	19993
Client Code:		

Company Con	tact Information				Asbestos Test Types	s
A A A	1-TEC	Contact: Justin	Anold			
Address:		Phone X: Slu 8			Positive stop	
ZGOY NE INLE	isdrial drive Site 230				PLM Point Count 400 (PT4)	
1	City, MO 64117		docenter	1	PLM Point Count 1000 (PTM)	
	1/	7			PCM NIOSH 7400-A Rules (PCM)	
Billing/Invoice	Information	Turn Arou	ınd Times		B Rules (PCB) TWA (PTA)	
Company: Sam	nc	90 Min.	48 Hours	-	TEM AHERA (AHE)	
Contact:		3 Hours	72 Hours		TEM Level II (LII)	
Address:		6 Hours	96 Hours		TEM NIOSH 7402 (TNI)	
		12 Hours	120 Hours 🕱		TEM Bulk Qualitative (TBL)	
		24 Hours	144⁺Hours □		TEM Bulk Chatfield (TBS)	
					TEM Bulk Quantitative (TBQ)	
PO Number:					TEM Wipe ASTM D6480-05	
Project Name/Nu	mber: 919103 - Buil	das 103 -	GFC	Т	TEM Microvac ASTM D5755-02	
		5			ΓΕΜ Water EPA 100.2 (TW1)	
				(Other: NIOSH 7303	X
				L		
			***	//		
Sample ID #			Volume			
Sample ID #	2nd floor Column E 3		866.4	L	Comments As, Cd, P5	
	150 Floor Column 62	- Keuns Cubic	8664	L 5L		
103-M+A-01	15+ Floor Column 62 2nd floor Column 65		866.4	L 5L		
103-M.+A-01 103-M.+A-02	15+ Floor Column 62	- Kiun's Cubic	866.4 4 641.2 644.1	L 5 L		
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15+ Floor Column 62 2nd Aloor Column 65	- Kiun's Cubic	866.4 4 641.2 644.1	L 5 L L		
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	8664 46412 6441 1 4566	L 5 L L		
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	866.4 491.2 644.1 1 456.6 NA	L 5 L L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	866.4 491.2 644.1 1 456.6 NA	L 5 L L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	8664 46412 6441 1 4566	L 5 L L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	866.4 641.2 644.1 1 456 L NA	L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	866.4 491.2 644.1 1 456.6 NA	L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F3	- Kiun's Cubic	866.4 641.2 644.1 1 456 L NA	L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04 103-M.+A-05	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F39 BLANK	-Keun's Cubical //z - Cubical - Window Sil	866.4 641.2 644.1 1 456.4 NA	L SL L	As, Cd, P5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04 103-M.+A-05	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F30 BLANK	- Keurs Cubical /2 - Cubical -21 - Windows S. 1	866.4 641.2 644.1 1 456.4 NA	L SL L	As, Cd, P5 Total # of Samples 5	
103-M.+A-01 103-M.+A-02 103-M.+A-03 103-M.+A-04 103-M.+A-05	15t Floor Column 62 2nd Floor Column 65 2nd Floor Column F30 BLANK Date	- Keurs Cubical /2 - Cubical -21 - Windows S. 1	866.4 641.2 644.1 1 456.4 NA	L SL L	As, Cd, P5 Total # of Samples 5	

METALS IN SETTLED DUST RESULTS





Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc.

2604 NE Industrial Drive, #230

North Kansas City, MO 64117

Project: 919103-Building 103-GFC

Attn: Justin Arnold

l Lab Ord

Lab Order ID:

71920003

Date Received: Date Reported:

07/30/2019 08/06/2019

Page:

1 of 2

Sample ID	Description	Area		Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	(μg)	$(\mu g/ft^2)$	
103-MctW-01	1 st Floor column		As	0.50	< 0.50	< 0.50	
103-MCt W -01	C36 – carpet floor	1	Cd	0.050	< 0.050	< 0.050	
71920003IPW_1			Pb	0.25	< 0.25	< 0.25	
102 M. 437 02	1st Floor column		As	0.50	< 0.50	< 0.50	
103-MctW-02	E37 – carpet floor	1	Cd	0.050	0.10	0.10	
71920003IPW_2			Pb	0.25	< 0.25	< 0.25	
102 34 444 02	1 st Floor column		As	0.50	0.64	0.64	
103-MctW-03	H1 – top of bookshelf	1	Cd	0.050	0.95	0.95	
71920003IPW_3			Pb	0.25	0.88	0.88	
102 M. W. 04	2 nd Floor column		As	0.50	0.64	0.64	
	G6 - desktop	1	Cd	0.050	0.33	0.33	
71920003IPW_4			Pb	0.25	0.75	0.75	
102 M. W. 05	2 nd Floor column		As	0.50	0.64	0.64	
103-MctW-05	C6 – desk shelf	1	Cd	0.050	< 0.050	< 0.050	
71920003IPW_5			Pb	0.25	< 0.25	< 0.25	
400 35 337 06	2 nd Floor column		As	0.50	0.76	0.76	
103-MctW-06	E5 – TV stand floor	1	Cd	0.050	0.23	0.23	
71920003IPW_6			Pb	0.25	2.2	2.2	
102 34	2 nd Floor column		As	0.50	0.60	0.60	
103-MctW-07	E35 – carpet floor	1	Cd	0.050	0.050	0.050	
71920003IPW_7			Pb	0.25	2.1	2.1	
102 M . W. 00	2 nd Floor column		As	0.50	< 0.50	< 0.50	
103-MctW-08	E37 – carpet floor	1	Cd	0.050	< 0.050	< 0.050	
71920003IPW_8			Pb	0.25	< 0.25	< 0.25	

Melissa Ferrell

Analyst

Lab Director

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



07/30/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71920003

2604 NE Industrial Drive, #230

North Kansas City, MO 64117 Date Reported: 08/06/2019
Project: 919103-Building 103-GFC Page: 2 of 2

Sample ID	Description	Area	1771	Reporting	Concentration	Concentration	
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	(μg)	$(\mu g/ft^2)$	
102 M-4W 00	2 nd Floor column		As	0.50	0.54	0.54	
103-MctW-09	J38 - desktop	1	Cd	0.050	0.15	0.15	
71920003IPW_9			Pb	0.25	0.99	0.99	
102 15 317 10	1 st Floor column		As	0.50	0.70	0.70	
103-MctW-10	A28 – top of fridge	1	Cd	0.050	2.0	2.0	
71920003IPW_10			Pb	0.25	4.9	4.9	
102 M. W. 11	D11-		As	0.50	0.60	-	
103-MctW-11	Blank	-	Cd	0.050	0.12	-	
71920003IPW_11			Pb	0.25	< 0.25	-	

Melissa Ferrell

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^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



Company Contact Information

Company: OCCU-TEC

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:	2
Client Code:	

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)

Address:	Phone . Du -	SU -	3614	Post	live stop	
2404 NE Industrial Drive Suite 2					1 Point Count 400 (PT4)	
North Kansas City, MO G4117	Email : Yaca	Ida	horicom	PLN	Point Count 1000 (PTM)	
//	9	/		PCM	1 NIOSH 7400-A Rules (PCM)	
Billing/Invoice Information	Turn Aro	und T	Times	BF	Rules (PCB) TWA (PT.	A) 🔲
Company: Same	90 Min.	48 Ho	ours 🔲	TEM	AHERA (AHE)	
Contact:	3 Hours	72 Ho	ours 🔲	TEM Level II (LII)		
Address:	6 Hours	96 Ho	ours 🔲	TEM	M NIOSH 7402 (TNI)	
	12 Hours	120 H	lours 🔼	TEM	A Bulk Qualitative (TBL)	
	24 Hours	144 ⁺ F	Hours 🔲	TEM	M Bulk Chatfield (TBS)	
				TEM	Bulk Quantitative (TBQ)	
PO Number:				TEM	Wipe ASTM D6480-05	
Project Name/Number: 919103 -	Building 103-	GFC		TEM	Microvac ASTM D5755-02	
	3			TEM	1 Water EPA 100.2 (TW1)	
				Othe	er: N105H 7300	X
Sample ID #			Volume/A	rea	Comments	
103-Metw-01 12 floor Column	C 36 - Carpet flo	05	ISF		As, Cd. Pb	
	E 37 - Carpet Alox		15F		As Cd. Pb	3
03-Metw-03 1st Floor Column	HI- Top of book	-	ISF		As (d, P3	2
103-moth - 04 2m Floor Column	66 - Desk top		15F		As, (d. Ph	
103-Metw-or Zno floor Column	CG-Dook Slelf		15F		As. CA PS	
03-MetW-04 2nd floor Column	ES - TV Stand	Par	15F		As Cd. Ph	
03-MctW-07 2nd Floor Column	E35 - Carpet Flo		15f		As (d, Ph	1
03- Mctw-08 znu floor Column		floor	ISF		As (1 Pb	
03-McHW-09 22 floor Column	100 011		15F		As (1 Ph	
03-Mchw-10 1st Floor Colum	2 60		ISF		As, (d. Pb	
03-Metw-11 BLANK	7,00	9	NA		As, cd, Ps	Ť
/ Conjust)	Total # of Samples	
Relinguished by	Date/Time	0	Received	bw	Date/Ti	me
	7-29-19 (b) (6)			7-30	10
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