



2604 NE Industrial Drive, Suite 230
North Kansas City, Missouri 64117
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www.occutec.com

September 24, 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. 104E
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 104E on September 11, 2019. The air samples were analyzed for asbestos, Arsenic, Cadmium, and Lead. Settled dust samples were analyzed for Arsenic, Cadmium, and Lead. These analyses mirrored the OSHA inspector's samples.

All results were less the laboratory limit of detection.

The samples collected were only indicative of the time of the sample and were not collected as 8-hour 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,

(b) (6)

Jeff T. Smith
Senior Project Manager

(b) (6)

Kevin Heriford
Operations Manager (QA/QC)



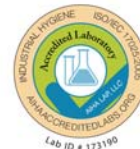
ASBESTOS (PCM) RESULTS





Airborne Fiber Analysis

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



Customer: OCCU-TEC Inc.
2604 NE Industrial Drive, Suite 230
North Kansas City, MO 64117

Attn: Jeff Smith

Lab Order ID: 71924125

Analysis ID: 1924125_PCM

Date Received: 9/17/2019

Project: GFC - 104E

Date Reported: 9/20/2019

Sample ID	Description	Volume	Fibers	Filter	LOD	Conc.
Lab Sample ID	Lab Notes	Filter Area	Fields	(Fibers / mm ²)	(Fibers / cc)	(Fibers / cc)
104E-Asb-01	Director's Office - South Cabinet	378 L	< 5.5	< 7.0	0.0071	< 0.0071
71924125PCM_1		385 mm ²	100			
104E-Asb-02	Outside Office P51E1	430 L	< 5.5	< 7.0	0.0063	< 0.0063
71924125PCM_2		385 mm ²	100			
104E-Asb-03	Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
71924125PCM_3		385 mm ²	100			
104E-Asb-04	Field Blank	0 L	< 5.5	< 7.0	N/A	N/A
71924125PCM_4		385 mm ²	100			

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 (4)

(b) (6)

Analyst

Approved Signatory



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 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 71924125
 Client Code: _____

Company Contact Information	
Company: <u>Occu-Tec</u>	Contact: <u>Joff Smith</u>
Address: <u>2604 NE Industrial Dr.</u>	Phone <input type="checkbox"/>
<u>Suite 230</u>	Fax <input type="checkbox"/>
<u>North Kansas City, MO 64117</u>	Email <input checked="" type="checkbox"/> : <u>j.smith@occutec.com</u>

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: <u>Jay Hirst</u>	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input checked="" type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number: <u>919103</u>
Project Name/Number: <u>GFC-104E</u>

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

per SS.

Sample ID #		Volume/Area	Comments
104E-Asb-01	Director's Office - South Cabinet	378 l	
104E-Asb-02	Outside Office P51E1	430 l	
104E-Asb-03	Field Blank	—	
104E-Asb-04	Field Blank	—	

Relinquished by		Received by	
(b) (6)	Date/Time: <u>9-13-19 1500</u>	(b) (6)	Date/Time: <u>9-17 10:30</u>

Accepted

Rejected

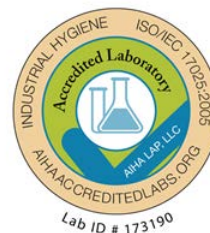
METALS IN AIR RESULTS





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

NIOSH Method 7303



Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Ste 230 North Kansas City, MO 64117	Attn: Jeff Smith	Lab Order ID: 71924135 Date Received: 09/17/2019 Date Reported: 09/24/2019
Project:	GFC – 104E		Page: 1 of 1

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
104E-PbA-01	VA Break Room	405	As	0.25	< 0.25	< 0.62
			Cd	0.050	< 0.050	< 0.12
71924135IPA_1			Pb	0.25	< 0.25	< 0.62
104E-PbA-02	2 nd Fl – Outside P46E1	419	As	0.25	< 0.25	< 0.60
			Cd	0.050	< 0.050	< 0.12
71924135IPA_2			Pb	0.25	< 0.25	< 0.60
104E-PbA-03	Field Blank	-	As	0.25	< 0.25	-
			Cd	0.050	< 0.050	-
71924135IPA_3			Pb	0.25	< 0.25	-

Melissa Ferrell

(b) (6)

Analyst

Lab Director

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 www.sailab.com lab@sailab.com

Lab Use Only 71924135
 Lab Order ID: 71924135
 Client Code: _____

Contact Information

Company Name: Occu-Tec

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

Contact: Jeff Smith

Phone :

Fax :

Email : jsmith@occutec.com

PO Number: 919103

Project Name/Number: GFC-104E

Billing/Invoice Information

Company:

Address:

Contact: Jay Hurst

Phone :

Fax :

Email :

Turn Around Times

3 Hours	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>
6 Hours	<input type="checkbox"/>	96 Hours	<input type="checkbox"/>
12 Hours	<input type="checkbox"/>	120 Hours	<input checked="" type="checkbox"/>
24 Hours	<input type="checkbox"/>	144+ Hours	<input type="checkbox"/>
48 Hours	<input type="checkbox"/>		

Lead Test Types

Paint Chips by Flame AA (PBP) <input type="checkbox"/>	Soil by Flame AA (PBS) <input type="checkbox"/>	Other <input checked="" type="checkbox"/>
Wipe by Flame AA (PBW) <input type="checkbox"/>	Air by Flame AA (PBA) <input type="checkbox"/>	<u>Pb, As, Cd</u>

Sample ID #	Description/Location	Volume/Area	Comments
104E-PBW-01	VA Directors Office - Cabinet	1 SF	Pb, As, Cd only
104E-PBW-02	2nd Floor - S Window Sill	1 SF	↓
104E-PBW-03	Field ⁹⁵ Room P45C1 NW Window Sill	1 SF	
104E-PBW-04	Field Blank	—	
104E-PBA-01	VA Break Room	405 l	
104E-PBA-02	2nd Fl - outside P46E1	419 l	Accepted <input checked="" type="checkbox"/>
104E-PBA-03	Field Blank	—	
			Rejected <input type="checkbox"/>

Total Number of Samples _____

Relinquished by (b) (6)	Date/Time 9-13-19 1300	Received by (b) (6)	Date/Time 9/17 10:30A
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METALS IN SETTLED DUST RESULTS





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

NIOSH 7303/EPA SW-846 3050B



Client:	OCCU-TEC Inc. 2604 NE Industrial Drive, Ste 230 North Kansas City, MO 64117	Attn: Jeff Smith	Lab Order ID: 71924137
			Date Received: 09/17/2019
Project:	GFC – 104E		Date Reported: 09/24/2019
			Page: 1 of 1

Sample ID	Description	Area (ft ²)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft ²)
Lab Sample ID	Lab Notes					
104E-PbW-01	VA Directors Office – Cabinet	1	As	0.50	< 0.50	< 0.50
			Cd	0.10	< 0.10	< 0.10
71924137IPW_1			Pb	0.50	< 0.50	< 0.50
104E-PbW-02	2 nd Floor – S Window Sill	1	As	0.50	< 0.50	< 0.50
			Cd	0.10	< 0.10	< 0.10
71924137IPW_2			Pb	0.50	< 0.50	< 0.50
104E-PbW-03	Room P45C1 NW Window Sill	1	As	0.50	< 0.50	< 0.50
			Cd	0.10	< 0.10	< 0.10
71924137IPW_3			Pb	0.50	< 0.50	< 0.50
104E-PbW-04	Field Blank	-	As	0.50	< 0.50	-
			Cd	0.10	< 0.10	-
71924137IPW_4			Pb	0.50	< 0.50	-

Melissa Ferrell

Analyst

(b) (6)

Lab Director

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

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.



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Lab Use Only: 71924137
 Lab Order ID: 71924137
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Contact Information

Company Name: Occu-Tec
 Address: 2604 NE Industrial Drive
 Suite 230
 North Kansas City, MO 64117
 Contact: Jeff Smith
 Phone :
 Fax :
 Email : jsmith@occutech.com
 PO Number: 719103
 Project Name/Number: GFC-104E

Billing/Invoice Information

Company:
 Address:
 Contact: Jay Hiest
 Phone :
 Fax :
 Email :

Turn Around Times

3 Hours	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>
6 Hours	<input type="checkbox"/>	96 Hours	<input type="checkbox"/>
12 Hours	<input type="checkbox"/>	120 Hours	<input checked="" type="checkbox"/>
24 Hours	<input type="checkbox"/>	144+ Hours	<input type="checkbox"/>
48 Hours	<input type="checkbox"/>		

Lead Test Types

Paint Chips by Flame AA (PBP) <input type="checkbox"/>	Soil by Flame AA (PBS) <input type="checkbox"/>	Other <input checked="" type="checkbox"/>
Wipe by Flame AA (PBW) <input type="checkbox"/>	Air by Flame AA (PBA) <input type="checkbox"/>	Pb, As, Cd

Sample ID #	Description/Location	Volume/Area	Comments
104E-PHW-01	VA Directors Office - Cabinet	1 SF	Pb, As, Cd only
104E-PHW-02	2nd Floor - S Window Sill	1 SF	↓
104E-PHW-03	Field P/B Room P4501 NW Window Sill	1 SF	
104E-PHW-04	Field Blank	—	
104E-PWA-01	VA Break Room	405 L	
104E-PWA-02	2nd Fl - outside P46E1	419 L	Accepted <input checked="" type="checkbox"/>
104E-PWA-03	Field Blank	—	

Total Number of Samples _____

Relinquished by (b) (6)	Date/Time 9-13-19 1300	Received by (b) (6)	Date/Time 9/17 10:30A
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