



February 14, 2019

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

**RE: Goodfellow Federal Center - Metals in Air Investigation  
Building – #110  
4300 Goodfellow Boulevard  
St. Louis, Missouri 63120  
OCCU-TEC Project No. 918004**

Dear Ms. Czarnecki:

Thank you for the opportunity to assist the General Services Administration (GSA) with the Resource Conservation and Recovery Act (RCRA) metals air sampling investigation of the above referenced buildings located at the Goodfellow Federal Center, in St. Louis, Missouri. OCCU-TEC understands that the purpose of the investigation was to provide sampling data regarding pre-existing conditions noted in investigation reports previously prepared for the facility. The following report summarizes the sample collection activities and the laboratory analytical results of the samples submitted.

On January 11, 2019, Missouri licensed air sampling professionals from OCCU-TEC conducted air sampling for the presence of seven of the RCRA metals including Silver, Arsenic, Barium, Cadmium, Chromium, Lead, and Selenium. Sampling was conducted on Building #110.

The proposed sampling scheme, the numbers of samples, sample distribution and general methodology was developed based on previous investigation methodology and in coordination with the GSA. Sample locations were determined by OCCU-TEC field personnel while on-site.

### ***Resource Conservation and Recovery Act Metals Air Sampling***

Air sampling for RCRA metals was collected on 37-millimeter (mm) cassettes with 0.8 micrometer ( $\mu\text{m}$ ) mixed cellulose ester (MCE) filters using powered air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples were collected in a method sufficient to collect a minimum sample volume of 300 liters. Air samples were submitted under chain-of-custody to Scientific Analytical Institute, Inc. (SAI), for independent analysis of RCRA metals in accordance with NIOSH Method 7300. SAI is accredited by the American Industrial Hygiene Association (AIHA) utilizing the Industrial Hygiene Proficiency Analytical Testing (IHPAT) program. SAI's IHPAT Laboratory ID is 173190.

Results of the air sampling are summarized in the table below by identifying the range of results for Building #110 for each of the seven metals that were sampled. **Samples with a “<” sign indicate that the results were below the laboratory’s method reporting limit.**

Analysis	Lowest Concentration ( $\mu\text{g}/\text{m}^3$ )	Highest Concentration ( $\mu\text{g}/\text{m}^3$ )
Silver (Ag)	<0.68	<0.68
Arsenic (As)	<0.68	<0.68
Barium (Ba)	<0.10	0.16
Cadmium (Cd)	<0.068	<0.068
Total Chromium (Cr) *	<0.68	2.5
Lead (Pb)	<0.35	<0.35
Selenium (Se)	<0.68	<0.68

\* The laboratory reported trace amounts of total chromium above the laboratory detection limit on many samples, including field blanks. According to the lab, low levels of Chromium can be found as a contaminant in varying levels on MCE filters for different manufacturers and lots.

Results of the air samples collected indicate that **all** the air samples collected from Building #110 contained concentrations of RCRA metals below the laboratory’s method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of Barium and total Chromium. As previously noted, the elevated total chromium results were likely due to contaminated MCE filter media. Sample locations and the corresponding results are summarized in the laboratory analytical results that are included in Appendix A. The air sampling professional’s Missouri Lead license is included in Appendix B.

It should be noted that this air sampling investigation was only a screening of airborne RCRA metals and should not be interpreted or used to determine compliance or non-compliance with OSHA personnel monitoring regulations.

OCCU-TEC appreciates the opportunity to work with GSA on this project. If you have any questions concerning this report, or if we may be of any additional service, please feel free to contact us.

Sincerely,

(b) (6)

Jeff T. Smith  
Senior Project Manager

(b) (6)

Kevin Heriford  
Project Manager (QA/QC)

Appendices:

- A: Laboratory Analytical Results and Chain of Custody Documentation
- B: Qualifications and Licenses

# **Appendix A**

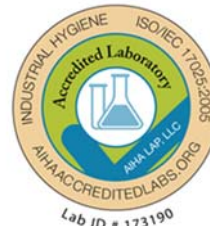
## Laboratory Analytical Report and Chain of Custody Documentation





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

NIOSH Method 7300



**Client:** Occu-Tec, Inc.  
100 NW Business Park Ln.  
Riverside, MO 64150

**Project:** GFC

**Attn:** Kevin Heriford

**Lab Order ID:** 71901040  
**Date Received:** 01/15/2019  
**Date Reported:** 01/24/2019  
**Page:** 1 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-01	UL by Pillar H15	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.26	0.71
			Pb	0.13	< 0.13	< 0.35
71901040IPA_1			Se	0.25	< 0.25	< 0.68
110-META18-02	UL by N15	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.26	0.71
			Pb	0.13	< 0.13	< 0.35
71901040IPA_2			Se	0.25	< 0.25	< 0.68
110-META18-03	UL by P12	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.31	0.84
			Pb	0.13	< 0.13	< 0.35
71901040IPA_3			Se	0.25	< 0.25	< 0.68

Melissa Ferrell (26)

**Analyst**

(b) (6)

**Lab Director**

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

NIOSH Method 7300



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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-04	UL by H12	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.28	0.76
			Pb	0.13	< 0.13	< 0.35
71901040IPA_4			Se	0.25	< 0.25	< 0.68
110-META18-05	UL by L16	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.28	0.76
			Pb	0.13	< 0.13	< 0.35
71901040IPA_5	cartridge not labeled		Se	0.25	< 0.25	< 0.68
110-META18-06	UL by B16	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.31	0.84
			Pb	0.13	< 0.13	< 0.35
71901040IPA_6			Se	0.25	< 0.25	< 0.68

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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-07	UL by E10	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.36	0.98
			Pb	0.13	< 0.13	< 0.35
71901040IPA_7			Se	0.25	< 0.25	< 0.68
110-META18-08	UL by E5	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.29	0.79
			Pb	0.13	< 0.13	< 0.35
71901040IPA_8			Se	0.25	< 0.25	< 0.68
110-META18-09	UL by G3 by Bathrooms	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.28	0.76
			Pb	0.13	< 0.13	< 0.35
71901040IPA_9			Se	0.25	< 0.25	< 0.68

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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-10	UL by M4	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.35	0.95
			Pb	0.13	< 0.13	< 0.35
71901040IPA_10			Se	0.25	< 0.25	< 0.68
110-META18-11	UL by F9	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.32	0.87
			Pb	0.13	< 0.13	< 0.35
71901040IPA_11			Se	0.25	< 0.25	< 0.68
110-META18-12	UL by D15	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.31	0.84
			Pb	0.13	< 0.13	< 0.35
71901040IPA_12			Se	0.25	< 0.25	< 0.68

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**Page:** 5 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-13	LL by B14	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71901040IPA_13			Se	0.25	< 0.25	< 0.68
110-META18-14	LL by B10	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.26	0.71
			Pb	0.13	< 0.13	< 0.35
71901040IPA_14			Se	0.25	< 0.25	< 0.68
110-META18-15	LL by E11	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.36	0.98
			Pb	0.13	< 0.13	< 0.35
71901040IPA_15			Se	0.25	< 0.25	< 0.68

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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-16	LL by F14	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.30	0.82
			Pb	0.13	< 0.13	< 0.35
71901040IPA_16	cartridge not labeled		Se	0.25	< 0.25	< 0.68
110-META18-17	LL by L15	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.44	1.2
			Pb	0.13	< 0.13	< 0.35
71901040IPA_17			Se	0.25	< 0.25	< 0.68
110-META18-18	LL by N12	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.73	2.0
			Pb	0.13	< 0.13	< 0.35
71901040IPA_18			Se	0.25	< 0.25	< 0.68

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(b) (6)

**Analyst**

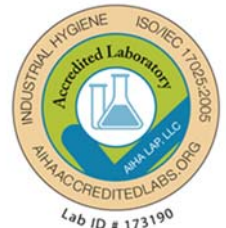
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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-19	LL by J13	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	< 0.25	< 0.68
			Pb	0.13	< 0.13	< 0.35
71901040IPA_19			Se	0.25	< 0.25	< 0.68
110-META18-20	LL by F11	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.50	1.4
			Pb	0.13	< 0.13	< 0.35
71901040IPA_20			Se	0.25	< 0.25	< 0.68
110-META18-21	LL by E8	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	0.058	0.16
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.93	2.5
			Pb	0.13	< 0.13	< 0.35
71901040IPA_21			Se	0.25	< 0.25	< 0.68

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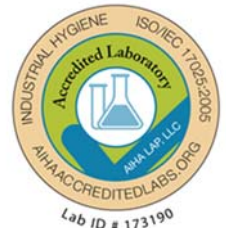
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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
110-META18-22	LL by D7	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.54	1.5
			Pb	0.13	< 0.13	< 0.35
71901040IPA_22			Se	0.25	< 0.25	< 0.68
110-META18-23	LL by G5	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.26	0.71
			Pb	0.13	< 0.13	< 0.35
71901040IPA_23			Se	0.25	< 0.25	< 0.68
110-META18-24	LL by H2	367.5	Ag	0.25	< 0.25	< 0.68
			As	0.25	< 0.25	< 0.68
			Ba	0.038	< 0.038	< 0.10
			Cd	0.025	< 0.025	< 0.068
			Cr	0.25	0.53	1.4
			Pb	0.13	< 0.13	< 0.35
71901040IPA_24			Se	0.25	< 0.25	< 0.68

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			<b>Date Received:</b> 01/15/2019	
<b>Project:</b>	GFC		<b>Date Reported:</b> 01/24/2019	
			<b>Page:</b> 9 of 9	

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
<i>Lab Sample ID</i>	<i>Lab Notes</i>					
110-META18-25	FB	-	Ag	0.25	< 0.25	--
			As	0.25	< 0.25	--
			Ba	0.038	< 0.038	--
			Cd	0.025	< 0.025	--
			Cr	0.25	0.41	--
			Pb	0.13	< 0.13	--
71901040IPA_25			Se	0.25	< 0.25	--
110-META18-26	FB	-	Ag	0.25	< 0.25	--
			As	0.25	< 0.25	--
			Ba	0.038	< 0.038	--
			Cd	0.025	< 0.025	--
			Cr	0.25	0.80	--
			Pb	0.13	< 0.13	--
71901040IPA_26			Se	0.25	< 0.25	--

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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: 719 01040  
 Client Code: \_\_\_\_\_

Contact Information	
Company Name:	Occu-TEC, Inc
Address:	100 NW Business Park Ln Hiverside, MO 64150
Contact:	Kevin Heriford
Phone <input type="checkbox"/>	816-825-0628
Fax <input type="checkbox"/>	816-994-3466
Email <input type="checkbox"/>	kheriford@occutec.com
PO Number:	918004
Project Name/Number:	GFC

Billing/Invoice Information	
Company:	Same
Address:	
Contact:	Ap@occutec.com
Phone <input type="checkbox"/>	
Fax <input type="checkbox"/>	
Email <input type="checkbox"/>	Ap@occutec.com

Lead Test Types		
Paint Chips by Flame AA <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"/>	RCRA 8 w/o Hg

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 type="checkbox"/>
24 Hours <input type="checkbox"/>	144+ Hours <input checked="" type="checkbox"/>
48 Hours <input type="checkbox"/>	Standard turn

Sample ID #	Description/Location	Volume/Area	Comments
110-MetA18-01	UL By Pillar H15	367.5	
110-MetA18-02	UL By Pillar H15	367.5	
110-MetA18-03	UL By P12	367.5	
110-MetA18-04	UL By J12	367.5	
110-MetA19-05	UL By L16	367.5	
110-MetA18-06	UL By D16	367.5	
110-MetA18-07	UL By E10	367.5	
110-MetA18-08	UL By E5	367.5	
110-MetA18-09	UL By G3 by Bathrooms	367.5	
110-MetA18-10	UL By M4	367.5	
110-MetA18-11	UL by F9	367.5	
110-MetA19-12	UL by D15	367.5	
110-MetA18-13	LL By B17	367.5	
110-MetA18-14	LL by B10	367.5	
110-MetA18-15	LL by E11	367.5	
110-MetA18-16	LL by E14	367.5	
110-MetA18-17	LL By L15	367.5	
110-MetA19-18	LL by M1	367.5	
110-MetA18-19	LL by J13	367.5	
110-MetA18-20	LL by P11	367.5	

Accepted   
 Rejected

Total Number of Samples 26

Relinquished by	Date/Time	Received by	Date/Time
		(b) (6)	1/15 8:31AM



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Lab Use Only  
 Lab Order ID: 71901040  
 Client Code: \_\_\_\_\_

**Contact Information**

Company Name: Occu-TEC, Inc  
 Address: 100 NW Business Park Ln  
 Riverside, MO 64150  
 Contact: Kevin Heriford  
 Phone ☐: 816-825-0628  
 Fax ☐: 816-994-3466  
 Email ☐: Kheriford@occutec.com  
 PO Number: 918004  
 Project Name/Number: GFC

**Billing/Invoice Information**

Company: Same  
 Address:  
 Contact: Ap@occutec.com  
 Phone ☐:  
 Fax ☐:  
 Email ☐: Ap@occutec.com

**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 type="checkbox"/>
24 Hours	<input type="checkbox"/>	144+ Hours	<input checked="" type="checkbox"/>
48 Hours	<input type="checkbox"/>	<u>Standard turn</u>	

**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>ACRA 8 w/o Hg</u>

Sample ID #	Description/Location	Volume/Area	Comments
110-MetA18-21	<u>LL by F8</u>	<u>367.5</u>	
110-MetA18-22	<u>LL by D7</u>	<u>367.5</u>	
110-MetA18-23	<u>LL by G5</u>	<u>367.5</u>	
110-MetA18-24	<u>LL by H2</u>	<u>367.5</u>	
110-MetA18-25	<u>FB</u>	<u>—</u>	<u>Blank</u>
110-MetA18-26	<u>FB</u>	<u>—</u>	<u>Blank</u>

Total Number of Samples 26

Relinquished by	Date/Time	Received by	Date/Time

# **Appendix B**

## Qualifications and Licenses





**STATE OF MISSOURI  
DEPARTMENT OF HEALTH AND SENIOR SERVICES**

**LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

**Austin G. O'Byrne**

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

**Lead Risk Assessor**  
Category of License

Issuance Date: **12/10/2018**  
Expiration Date: **12/10/2020**  
License Number: **181210-300005671**



(b) (6)

Randall W. Williams, MD, FCOG  
Director  
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102