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January 30, 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 - #141C
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 December 21, 2018, 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 #141C.

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 (μm) 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 #141C 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	Highest		
	Concentration	Concentration		
	$(\mu g/m^3)$	$(\mu g/m^3)$		
Silver (Ag)	< 0.68	< 0.68		
Arsenic (As)	< 0.68	< 0.68		
Barium (Ba)	< 0.10	< 0.10		
Cadmium (Cd)	< 0.068	< 0.068		
Total Chromium (Cr) *	0.79	0.79		
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 #141C contained concentrations of RCRA metals below the laboratory's method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of 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 in 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.





Jeff T. Smith Senior Project Manager



Appendices:

A: Laboratory Analytical Results and Chain of Custody Documentation

B: Qualifications and Licenses

Appendix A

Laboratory Analytical Report and Chain of Custody

Documentation





Project:

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



NIOSH Method 7300

Attn:

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Kevin Heriford

Lab Order ID:

51834414 12/27/2018

Riverside, MO 64150

Date Received: Date Reported:

01/04/2019

GFC - Building 141C

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Sample ID	Description	Volume (L)	Element	Reporting Limit (μg)	Concentration (μg)	Concentration	
Lab Sample ID	Lab Notes					(μg/m ³)	
141C-MetA-1 Inside Building 141C		367.5	Ag	0.25	< 0.25	< 0.68	
			As	0.25	< 0.25	< 0.68	
	Inside Building		Ba	0.038	< 0.038	< 0.10	
	141C		Cd	0.025	< 0.025	< 0.068	
			Cr	0.25	0.29	0.79	
			Pb	0.13	< 0.13	< 0.35	
51834414IPA_1			Se	0.25	< 0.25	< 0.68	
141C -MetA-2 Blank		-	Ag	0.25	< 0.25		
			As	0.25	< 0.25		
	Dlamla		Ba	0.038	< 0.038		
	Blank		Cd	0.025	< 0.025		
			Cr	0.25	0.44		
			Pb	0.13	< 0.13		
51834414IPA_2			Se	0.25	< 0.25		

Melissa Ferrell (2)

Analyst

Lab Director

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. MDLs are available upon request. Reporting limits stated above.



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: Client Code:	<u> 518 34414</u>

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Contact Information				Billing/Invoice Information				
Company Name: OC	CU-TEC. I	Inc.					TEC. Inc	
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Contact: Keyin H.	eriford				Phone :	MIII	Signo	
Contact: Kevin Heritord Phone □: 816-825-0628 Fax □: 816-994-3466					Fax □:			
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Appendix B Qualifications and Licenses



STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Austin G. O'Byrne

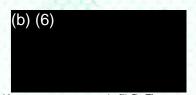
The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor Category of License

Issuance Date: 12/10/2018
Expiration Date: 12/10/2020

License Number: 181210-300005671





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

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