



January 9, 2023

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

Re: Goodfellow Federal Center –Building 104 Air and Wipe Sampling Evaluation Addendum  
Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above-referenced environmental sampling activities. The following is our report.

## **INTRODUCTION**

As requested, Burns & McDonnell conducted area air sampling and wipe sampling for the presence of seven (7) RCRA metals including arsenic, barium, cadmium, chromium, lead, selenium, and silver within the data center of the second floor of building 104 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. The purpose of the investigation was to provide ongoing sampling data to monitor conditions at the site. This report serves as an addendum to the *Goodfellow Federal Center – Building 104 Air and Wipe Sampling Evaluation*, dated February 16, 2021.

## **SAMPLING METHODOLOGY**

Dust wipe sampling was conducted in accordance with ASTM Standard E1728: *Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination* and ASTM Standard D6966: *Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Determination of Metals*. ASTM Standards E1728 and D6966 are consistent with the methodology described in the Housing and Urban Development Guidelines-Appendix 13.1 and 40 CFR 745.63. The Brookhaven National Laboratory’s Surface Wipe Sampling Procedure (IH75190) was also used as a guideline.

A representative surface area of approximately one square foot (1 SF) was measured and delineated. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM E1792 Standard. Each dust wipe cloth was pre-moistened and individually wrapped. Each sample was collected by wiping in a back and forth “S” pattern over a measured sampling area using a clean, disposable glove. Then, the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation. Then, the wipe folded over itself again and the area was wiped around the perimeter. The wipe sample was then placed into a labeled, clean container.



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Air samples for RCRA metals were 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 the National Institute for Occupational Safety and Health (NIOSH) Method 7300. The sampling strategy included collecting a minimum sample volume of 500 liters based on the calibrated pump flow rate and sample duration.

All samples were submitted under chain-of-custody to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for independent analysis of 7 RCRA metals. Air samples were analyzed by Inductively Coupled Plasma (ICP) according to NIOSH method 7300. Wipe samples were analyzed according to Environmental Protection Agency (EPA) method SW846-3050B/6010D. EHS is accredited under the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) program, identification number LAP-100420.

#### **SAMPLE SUMMARY AND RESULTS**

Air and wipe sample(s) were collected on November 30, 2022, by Abiodun Akinola of Burns & McDonnell.

One (1) air sample was collected on November 30, 2022. The sample was collected on the 2<sup>nd</sup> floor data center, room 3, on top of box across from column F7. All analytes were below laboratory reporting limits. The complete air sampling laboratory reports from EHS are included as Appendix A.

One (1) wipe sample was collected on November 30, 2022 on top of a box between columns F7 and F8. The sample was not analyzed due to a documentation error.

#### **LIMITATIONS**

The scope of this assessment was limited in nature. Burns & McDonnell collected samples from a representative number of surfaces in an effort to minimize cost while providing a general overview of site conditions. Sample locations do not encompass all surfaces at the site. Additionally, samples were only analyzed for a select number of potential contaminants. Burns & McDonnell is not responsible for potential contaminants not identified in this report.

Burns & McDonnell appreciates the opportunity to work for GSA on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.



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Sincerely,

(b) (6)

A large black rectangular redaction box covers the signature area, with the text "(b) (6)" in red at the top left corner.

Matt Shanahan, CHMM  
Project Manager

Attachments:  
Appendix A – Air Sampling Laboratory Report

Information in Appendix A is not accessible for people using screen reader technology. If this information is required, it can be furnished upon request by contacting 816-223-6198 or [r6environmental@gsa.gov](mailto:r6environmental@gsa.gov).

**APPENDIX A – AIR SAMPLING LABORATORY REPORT**



Environmental Hazards Services, L.L.C.  
 7469 Whitepine Rd  
 Richmond, VA 23237  
 Telephone: 800.347.4010

## Air Metals Analysis Report

Client: Burns & McDonnell Engineering  
 9400 Ward Pkwy.  
 Kansas City, MO 64114

Report Number: 22-12-00254  
 Received Date: 12/02/2022  
 Reported Date: 12/08/2022

Project/Test Address: 168765; GFC / 4300 Goodfellow Blvd

Client Number:  
26-3514

Fax Number:  
816-822-3494

# Laboratory Results

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m <sup>3</sup> )	Narrative ID
22-12-00254-001	104-A-01	12/05/2022	Arsenic (As)	525	<0.15	<0.29	
			Barium (Ba)		<0.15	<0.29	
			Cadmium (Cd)		<0.030	<0.058	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.29	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.29	
22-12-00254-002	104-A-02	12/05/2022	Arsenic (As)	--	<0.15	---	
			Barium (Ba)		<0.15	---	
			Cadmium (Cd)		<0.030	---	
			Chromium (Cr)		<0.75	---	
			Lead (Pb)		<0.15	---	
			Selenium (Se)		<0.75	---	
			Silver (Ag)		<0.15	---	




# ENVIRONMENTAL HAZARDS SERVICES, LLC

## Metals Chain of Custody Form

Pg \_\_\_\_ of \_\_\_\_

Company Name		Burns & McDonnell				Account #		26-3514											
Company Address		9400 Ward Parkway				City/State/Zip		Kansas City, MO 64114											
Phone		314-302-4661				Email		eapulcher@burnsmcd.com											
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd																	
PO Number		168765			Collected By		Abiodun Akinola												
Turn-Around Time		<input checked="" type="radio"/> 5 DAY <input type="radio"/> 3 DAY <input type="radio"/> 2 DAY <input type="radio"/> 1 DAY <input type="radio"/> SAME DAY OR WEEKEND - Must Call Ahead																	
LAB NUMBER	Client Sample ID	Collection Date & Time	METALS						Other Metals	PARTICULATES			AIR			WIPES			
			Pb TCLP	TCLP RCRA 8	RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP		CA 17 Total	Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Total Time	Flow Rate	Vol.	AREA
1	104-A-01	11/30/22 10:15 AM							Ag, As, Ba, Cd, Cr, Pb, Se						210	2.50	525	x NA	
2	104-A-02	✓ 10:17 AM							↓ ~~~~~ ↓						NA	NA	NA	NA	
3																			x
4																			x
5	104-W-01	11/30/22 10:18 AM														← NA →			12" x 12"
6	104-W-02	✓ 10:20 AM																	x
7																			x
8																			x
9																			x
10																			x
11																			x
12																			x
13																			x
14																			x
15																			x
Released By:		Abiodun Akinola				Date:		11/30/22			Time:		2:00 pm						
Signature:		(b) (6)																	

LAB USE ONLY - BELOW THIS LINE

Received By: <u>A. Walker</u> Signature: <span style="background-color: black; color: red; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;">(b) (6)</span>	22-12-00254  Due Date: 12/09/2022 (Friday) EL                      MM-L
Date: <u>12/02/22</u> Time: <u>12:51</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
<input type="checkbox"/> Portal Contact Added	
7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com	