



August 21, 2024

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 107 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 occupied areas of the first floor of building 107 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 107 Air and Wipe Sampling Evaluation*, dated December 27, 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.



Diane Czarnecki  
Facilities Management Division  
August 21, 2024  
Page 2

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. However, as discussed below, the sample volume could not be verified due to a pump failure, and the air samples were not sent to the laboratory for analysis.

Wipe samples were submitted under chain-of-custody to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for independent analysis of 7 RCRA metals. 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 samples were collected on July 29, 2024 by Ashley Anstaett of Burns & McDonnell.

One (1) air sample was planned to be collected. However, the pump failed part way through sample collection due to a battery issue and the total sample volume could not be calculated. Therefore, this sample was not sent to the laboratory for analysis.

One (1) wipe sample was collected from the south desk in room 100 on the first floor. Barium was detected at a concentration of 0.92 micrograms per square foot ( $\mu\text{g}/\text{sq. ft.}$ ), below the Clean Area Limit of 3,094  $\mu\text{g}/\text{sq. ft.}$  All other analytes were below laboratory reporting limits. The complete wipe sampling laboratory report from EHS is included as Appendix A.

#### **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.



Diane Czamecki  
Facilities Management Division  
August 21, 2024  
Page 3

Sincerely,

(b) (6)

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

Matt Shanahan, CHMM  
Project Manager

Attachments:

Appendix A – Wipe 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 – WIPE SAMPLING LABORATORY REPORT**



7469 Whitepine Rd  
 North Chesterfield, VA 23237  
 Telephone: 800.347.4010

## Wipe Metals Analysis Report

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

**Report Number:** 24-08-00958

**Received Date:** 08/06/2024

**Analyzed Date:** 08/07/2024

**Reported Date:** 08/09/2024

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

**Client Number:**  
26-3514

# Laboratory Results

**Fax Number:**  
816-822-3494

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft <sup>2</sup> )	Total Metal (ug)	Concentration (ug/ft <sup>2</sup> )	Narrative ID
24-08-00958-001	107-W-01	Arsenic (As)		<2.50	---	L01
		Barium (Ba)		<0.500	---	L01
		Cadmium (Cd)		<0.100	---	L01
		Chromium (Cr)		<1.00	---	L01
		Lead (Pb)		<0.500	---	L01
		Selenium (Se)		<2.50	---	L01
		Silver (Ag)		<0.500	---	L01
24-08-00958-002	107-W-02	Arsenic (As)	1.00	<2.50	<2.5	
		Barium (Ba)	1.00	0.925	0.92	
		Cadmium (Cd)	1.00	<0.100	<0.10	
		Chromium (Cr)	1.00	<1.00	<1.0	

# Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-08-00958

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft <sup>2</sup> )	Total Metal (ug)	Concentration (ug/ft <sup>2</sup> )	Narrative ID
		Lead (Pb)	1.00	<0.500	<0.50	
		Selenium (Se)	1.00	<2.50	<2.5	
		Silver (Ag)	1.00	<0.500	<0.50	

## Sample Narratives:

L01: LCS and LCSD percent recovery was outside of acceptance limits for Se.

**Analyst:** Carlos Gonzalez

**Method:** EPA SW846 3050B/6010D

(b) (6)

Reviewed By Authorized Signatory:

*Tasha Eaddy*

QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contains less than the reporting limit based on a 50mL volume. The reporting limit for Lead is 0.5ug.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

Legend                      ug = microgram                      ug/ft<sup>2</sup> = micrograms per square foot  
   mL = milliliter                              ft<sup>2</sup> = square foot

# ENVIRONMENTAL HAZARDS SERVICES, LLC

## Metals Chain of Custody Form

Company Name	Burns & McDonnell	Account #	26-3514
Company Address	9400 Ward Parkway	City/State/Zip	Kansas City, MO 64114
Phone	314-636-233-1270	Email	eapulcher@burnsmcd.com

Project Name / Testing Address	GFC / 4300 Goodfellow Blvd		
PO Number	168765	Collected By	A. Anstaett
Turn-Around Time	<input type="radio"/> 5 DAY <input checked="" 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			WIPE	
			Pb TCLP	TCLP RCRA & 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 Circle The Unit of Measurement Used cm. or <u>in</u>	
															Mins.	L/min.	Total Liters		
1	107-W-01	7/29 1202							Ag, As, Ba, Cd, Cr, Pb, Se										NA x NA
2	107-W-02	7/29 1203							" "										12 x 12
3																			X
4																			X
5																			X
6																			X
7																			X
8																			X
9																			X
10																			X
11																			X
12																			X
13																			X
14																			X
15																			X

Released By:	A. Anstaett	Date:	8/2/2024	Time:	1030
Signature:	(b) (6)				

LAB USE ONLY - BELOW THIS LINE

Received By: PKanner  
 Signature: (b) (6)  
 Date: 8/2/24 Time: 1239  AM  PM

Portal Contact Added

7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010  
 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

24-08-00958

Due Date:  
 08/09/2024  
 (Friday)  
 EL MM-L