



7/10/2024

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

Re: Goodfellow Federal Center
Metals in Settled Dust Sampling – Building 105
Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to assist the General Services Administration (GSA) with the metals in settled dust sampling investigation of Building 105 located at the Goodfellow Federal Center (GFC) in St. Louis, Missouri. Burns & McDonnell understands that the purpose of the investigation was to provide additional sampling data of existing environmental conditions that are present at GFC that could adversely impact the health and safety of building occupants as well as workers at the facility. The following report summarizes the sample collection activities and the laboratory analytical results of samples submitted.

INTRODUCTION

Per historical use and previous characterization, Burns & McDonnell was contracted to perform settled dust sampling for the analysis of seven (7) of the Resource Conservation and Recovery Act (RCRA) target metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver) from various surfaces within buildings. The purpose of this testing was to further characterize the presence and concentration of target metals in common tenant-occupied areas of the building.

The proposed sampling scheme, the number of samples, the sample distribution and general methodology was developed by GSA and Burns & McDonnell. Specific sample locations were determined by sampling personnel while on-site.

Settled dust wipe sampling at Bldg. 105 was conducted on June 4 and June 5, 2024 by Tas Uddin and Eric Wenger of Burns & McDonnell.

METALS IN SETTLED DUST SAMPLING

Metals in settled dust sampling was conducted primarily within tenant-occupied areas. 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

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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.

Dust wipe sampling for the target metals was conducted on a variety of representative surfaces that have the potential of being disturbed by building occupants. A representative surface area of approximately one square foot (1 SF) was measured and delineated with plastic templates. 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. Dust wipe samples were submitted to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for Inductively Coupled Plasma (ICP) analysis of metals analysis using Environmental Protection Agency (EPA) method SW846 3050B/6010D. EHS is accredited under the American Industrial Hygiene Association (AIHA) Laboratory Accreditation Program (LAP) identification number LAP-100420.

Whereas the Occupational Safety and Health Administration (OSHA) has not established regulatory limits for surface concentrations of metals, the OSHA Technical Manual Section II: Chapter 2 (III.A) describes a method for calculating "housekeeping" standards, as recommended acceptable surface limits. Brookhaven's IH75190 procedure uses the housekeeping standards to derive a lower, "clean area limit" for non-operational areas that can be accessed or contacted without special training or precautions. Burns & McDonnell calculated clean area limits for metals not included in the Brookhaven procedure, specifically barium, chromium (total), selenium and silver. Wipe results were compared to the Brookhaven procedure's clean area limits for each metal.

Results of the dust wipe samples collected from the building indicate that 30 of the 36 samples contained concentrations of target metals above laboratory reporting limits. The following table identifies the range of results for each of the seven metals that were analyzed. Samples with a "<" sign indicate that the results were below the lab's reportable limit.

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Table 1. Summary of Dust Wipe Results

Analyte	Lowest Concentration ^(a) (µg/sq. ft) ^(b)	Highest Concentration ^(a) (µg/sq. ft) ^(b)	Clean Area Limit ^(c) µg/sq. ft ^(b)
Silver	<0.5	<0.7	62
Arsenic	<2.5	<2.5	62
Barium	<0.5	55.0	3,094
Cadmium	<0.1	1.0	31
Chromium (Total)	<1.0	110.0	3,094
Lead	<0.5	50.0	10 ^(d)
Selenium	<2.5	<2.5	1,236

- (a) Samples with a “<” sign indicate that the results were below the laboratory’s reporting limit.
- (b) µg/sq. ft = micrograms per square foot of surface area.
- (c) Clean Area Limit per Brookhaven IH75190=OSHA Housekeeping Limit [(PEL (µg/m³) x 10 m³/100cm²) x 929cm²/sq.ft.] / 15.
- (d) Lead clean area limit: Brookhaven references EPA/HUD limit for floors, set at 10 µg/sq. ft. as of January 2020.

Of the 30 samples that had detectable levels of one or more analytes, 4 of them exceeded the clean area limit.

1. A sample taken from the floor in the warehouse on the 1st floor at column F47 had 50 µg/ft² of lead.
2. A sample taken from the top of a metal cabinet on the 1st floor at column B52, at a height greater than 70 inches, had 20 µg/ft² of lead.
3. A sample taken in the 1st floor southeast stairwell from the metal handrail had 12 µg/ft² of lead.
4. A sample taken from the metal handrail in room 320, the cylinder storage room on the 2nd floor had 25 µg/ft² of lead.

Additionally, the four (4) field blanks collected all had detections of barium with detected barium concentrations ranging from 0.84 µg/ft² to 4.45 µg/ft². A blank correction for barium was not applied to the sampling data, as barium concentrations for all samples were significantly below the Clean Area Limit, and the blank corrected concentrations would not impact the results of the data analysis.

Burns & McDonnell appreciates the opportunity to work with the 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)

Matt Shanahan, CHMM
Project Manager

Attachments:
Appendix A – Sample Summary Table
Appendix B – Laboratory Analysis Report

Information in Appendices A and B 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.

APPENDIX A – SAMPLE SUMMARY TABLE

Appendix A
Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-01	1st floor, column D44	Top of southeast cooler	Arsenic	< 2.5	µg/ft ²	62
			Barium	7.6	µg/ft ²	3,094
			Cadmium	1.0	µg/ft ²	31
			Chromium	3.6	µg/ft ²	3,094
			Lead	8.1	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-02	1st floor, column L1	Top of VWR oven / heater	Arsenic	< 2.5	µg/ft ²	62
			Barium	6.4	µg/ft ²	3,094
			Cadmium	0.34	µg/ft ²	31
			Chromium	2.1	µg/ft ²	3,094
			Lead	3.2	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-03	1st floor, column F47	Concrete floor	Arsenic	< 2.5	µg/ft ²	62
			Barium	33	µg/ft ²	3,094
			Cadmium	0.30	µg/ft ²	31
			Chromium	3.3	µg/ft ²	3,094
			Lead	50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-04	1st floor, column D43	Top of stainless steel workbench	Arsenic	< 2.5	µg/ft ²	62
			Barium	0.89	µg/ft ²	3,094
			Cadmium	0.10	µg/ft ²	31
			Chromium	3.1	µg/ft ²	3,094
			Lead	1.2	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

Appendix A
Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-05	1st floor, column B52	Top of metal cabinet in 2nd Dock Area	Arsenic	< 2.5	µg/ft ²	62
			Barium	55	µg/ft ²	3,094
			Cadmium	0.66	µg/ft ²	31
			Chromium	8.0	µg/ft ²	3,094
			Lead	20	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-06	1st floor, column B52	Concrete floor in 2nd Dock Area	Arsenic	< 2.5	µg/ft ²	62
			Barium	19	µg/ft ²	3,094
			Cadmium	0.24	µg/ft ²	31
			Chromium	2.9	µg/ft ²	3,094
			Lead	8.7	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-07	1st floor, column B51	Top of desktop	Arsenic	< 2.5	µg/ft ²	62
			Barium	< 0.50	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-08	1st floor, column B51	Concrete floor in front of refrigerator	Arsenic	< 2.5	µg/ft ²	62
			Barium	6.1	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	2.1	µg/ft ²	3,094
			Lead	2.6	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-09	1st floor, column B51	Top of stainless steel countertop	Arsenic	< 2.5	µg/ft ²	62
			Barium	< 0.50	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-10	1st floor, column B48	Top of counter desktop	Arsenic	< 2.5	µg/ft ²	62
			Barium	< 0.50	µg/ft ²	3,094
			Cadmium	0.16	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-11	1st floor, column B48	Top of counter	Arsenic	< 2.5	µg/ft ²	62
			Barium	< 0.50	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	110	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-12	1st floor, southeast stairwell	Top of bottom metal handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	8.0	µg/ft ²	3,094
			Cadmium	0.26	µg/ft ²	31
			Chromium	2.4	µg/ft ²	3,094
			Lead	12	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-13	1st floor, across southeast stairwell	Top of wooden handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	0.68	µg/ft ²	3,094
			Cadmium	0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	1.0	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-14	2nd floor, break room	Top of cabinet on SE corner	Arsenic	< 2.5	µg/ft ²	62
			Barium	5.3	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	1.1	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-15	2nd floor, break room	Floor tile in front of vending machine	Arsenic	< 2.5	µg/ft ²	62
			Barium	2.3	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-16	2nd floor, Room 337	Top of lab counter	Arsenic	< 2.5	µg/ft ²	62
			Barium	4.3	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-17	2nd floor, Room 327	Top of back corner desktop	Arsenic	< 2.5	µg/ft ²	62
			Barium	5.8	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-18	2nd floor, Room 324	Top of lab counter	Arsenic	< 2.5	µg/ft ²	62
			Barium	4.2	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-19	2nd floor, Room 320	Top of middle metal handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	22	µg/ft ²	3,094
			Cadmium	0.92	µg/ft ²	31
			Chromium	5.5	µg/ft ²	3,094
			Lead	25	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	0.65	µg/ft ²	62
105-W-20	2nd floor, Room 334	Floor tile	Arsenic	< 2.5	µg/ft ²	62
			Barium	3.7	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	0.54	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-21	2nd floor, ramp by Room 355	Top of inner wooden handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	1.0	µg/ft ²	3,094
			Cadmium	0.30	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	2.5	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-22	2nd floor, entrance to Room 315	Floor tile	Arsenic	< 2.5	µg/ft ²	62
			Barium	2.6	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	0.82	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-23	2nd floor, Room 317	Top of desktop right of the Exit door	Arsenic	< 2.5	µg/ft ²	62
			Barium	4.6	µg/ft ²	3,094
			Cadmium	0.12	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	0.72	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-24	2nd floor, Room 332	Top of wooden cabinet	Arsenic	< 2.5	µg/ft ²	62
			Barium	1.1	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-25	2nd floor, Room 340	Top of lab counter by refrigerator	Arsenic	< 2.5	µg/ft ²	62
			Barium	1.3	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	0.94	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-26	2nd floor, Room 308	Top of wooden storage rack	Arsenic	< 2.5	µg/ft ²	62
			Barium	2.3	µg/ft ²	3,094
			Cadmium	0.40	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	0.68	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-27	2nd floor, Room 308	Top of chair	Arsenic	< 2.5	µg/ft ²	62
			Barium	0.62	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-28	2nd floor, ramp near Room 310	Top of wooden handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	1.5	µg/ft ²	3,094
			Cadmium	0.28	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	2.6	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-29	2nd floor, Room 344	Top of wooden desktop	Arsenic	< 2.5	µg/ft ²	62
			Barium	< 0.50	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	2.0	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-30	1st floor, south entrance	Top of middle metal handrail	Arsenic	< 2.5	µg/ft ²	62
			Barium	11	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	< 1.0	µg/ft ²	3,094
			Lead	1.5	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-31	1st floor, column B2	Top of desk with computer	Arsenic	< 2.5	µg/ft ²	62
			Barium	2.6	µg/ft ²	3,094
			Cadmium	< 0.10	µg/ft ²	31
			Chromium	1.0	µg/ft ²	3,094
			Lead	< 0.50	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62
105-W-32	1st floor, column C52 in Dock A	Top of receiving table	Arsenic	< 2.5	µg/ft ²	62
			Barium	12	µg/ft ²	3,094
			Cadmium	0.22	µg/ft ²	31
			Chromium	22	µg/ft ²	3,094
			Lead	3.1	µg/ft ²	10
			Selenium	< 2.5	µg/ft ²	1,236
			Silver	< 0.50	µg/ft ²	62

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Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Clean Area Limit*
105-W-33	Field blank	--	Arsenic	< 2.50	µg	--
			Barium	4.45	µg	--
			Cadmium	< 0.100	µg	--
			Chromium	< 1.00	µg	--
			Lead	< 0.500	µg	--
			Selenium	< 2.50	µg	--
			Silver	< 0.500	µg	--
105-W-34	Field blank	--	Arsenic	< 2.50	µg	--
			Barium	1.90	µg	--
			Cadmium	< 0.100	µg	--
			Chromium	< 1.00	µg	--
			Lead	< 0.500	µg	--
			Selenium	< 2.50	µg	--
			Silver	< 0.500	µg	--
105-W-35A***	Field blank	--	Arsenic	< 2.50	µg	--
			Barium	0.840	µg	--
			Cadmium	< 0.100	µg	--
			Chromium	< 1.00	µg	--
			Lead	< 0.500	µg	--
			Selenium	< 2.50	µg	--
			Silver	< 0.500	µg	--
105-W-35B***	Field blank	--	Arsenic	< 2.5	µg	--
			Barium	1.52	µg	--
			Cadmium	< 0.100	µg	--
			Chromium	< 1.00	µg	--
			Lead	< 0.500	µg	--
			Selenium	< 2.50	µg	--
			Silver	< 0.500	µg	--

* Clean Area Limit per Brookhaven IH75190=OSHA Housekeeping Limit $[(PEL (\mu\text{g}/\text{m}^3) \times 10 \text{ m}^3/100\text{cm}^2) \times 929\text{cm}^2/\text{sq. ft.}] / 15$. Lead clean area limit: Brookhaven references EPA/HUD limit for floors, set at 10 µg/sq. ft. as of January 2020.

** Indicates results at or above the Clean Area Limit

*** - Two samples were labeled 105-W-35. Samples were both field blanks so were analyzed and relabeled by lab as 105-W-35A and 105-W-35B.

APPENDIX B – LABORATORY ANALYSIS 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: 24-06-01655

Received Date: 06/11/2024

Analyzed Date: 06/17/2024

Reported Date: 06/18/2024

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 ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
24-06-01655-001	105-W-01	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	7.60	7.6	L01
		Cadmium (Cd)	1.00	1.04	1.0	L01
		Chromium (Cr)	1.00	3.62	3.6	L01
		Lead (Pb)	1.00	8.11	8.1	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-002	105-W-02	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	6.44	6.4	L01
		Cadmium (Cd)	1.00	0.340	0.34	L01
		Chromium (Cr)	1.00	2.12	2.1	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Lead (Pb)	1.00	3.18	3.2	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-003	105-W-03	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	33.0	33	L01
		Cadmium (Cd)	1.00	0.305	0.30	L01
		Chromium (Cr)	1.00	3.26	3.3	L01
		Lead (Pb)	1.00	50.4	50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-004	105-W-04	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	0.890	0.89	L01
		Cadmium (Cd)	1.00	0.105	0.10	L01
		Chromium (Cr)	1.00	3.06	3.1	L01
		Lead (Pb)	1.00	1.18	1.2	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-005	105-W-05	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	55.5	55	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Cadmium (Cd)	1.00	0.660	0.66	L01
		Chromium (Cr)	1.00	8.02	8.0	L01
		Lead (Pb)	1.00	19.9	20	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-006	105-W-06	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	18.7	19	L01
		Cadmium (Cd)	1.00	0.240	0.24	L01
		Chromium (Cr)	1.00	2.88	2.9	L01
		Lead (Pb)	1.00	8.70	8.7	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-007	105-W-07	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
24-06-01655-008	105-W-08	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	6.08	6.1	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	2.12	2.1	L01
		Lead (Pb)	1.00	2.62	2.6	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-009	105-W-09	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-010	105-W-10	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	0.160	0.16	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-011	105-W-11	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	107	110	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-012	105-W-12	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	8.05	8.0	L01
		Cadmium (Cd)	1.00	0.260	0.26	L01
		Chromium (Cr)	1.00	2.38	2.4	L01
		Lead (Pb)	1.00	11.7	12	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-013	105-W-13	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	0.685	0.68	L01
		Cadmium (Cd)	1.00	0.105	0.10	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	1.02	1.0	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-014	105-W-14	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	5.28	5.3	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	1.14	1.1	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-015	105-W-15	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	2.34	2.3	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-016	105-W-16	Arsenic (As)	1.00	<2.50	<2.5	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Barium (Ba)	1.00	4.26	4.3	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-017	105-W-17	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	5.80	5.8	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-018	105-W-18	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	4.22	4.2	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-019	105-W-19	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	22.0	22	L01
		Cadmium (Cd)	1.00	0.920	0.92	L01
		Chromium (Cr)	1.00	5.48	5.5	L01
		Lead (Pb)	1.00	25.0	25	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	0.650	0.65	L01
24-06-01655-020	105-W-20	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	3.72	3.7	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	0.535	0.54	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-021	105-W-21	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	1.01	1.0	L01
		Cadmium (Cd)	1.00	0.300	0.30	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Lead (Pb)	1.00	2.52	2.5	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-022	105-W-22	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	2.58	2.6	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	0.820	0.82	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-023	105-W-23	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	4.60	4.6	L01
		Cadmium (Cd)	1.00	0.115	0.12	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	0.720	0.72	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-024	105-W-24	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	1.09	1.1	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-025	105-W-25	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	1.28	1.3	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	0.935	0.94	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-026	105-W-26	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	2.34	2.3	L01
		Cadmium (Cd)	1.00	0.400	0.40	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	0.685	0.68	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01

Environmental Hazards Services, L.L.C

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Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
24-06-01655-027	105-W-27	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	0.615	0.62	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-028	105-W-28	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	1.47	1.5	L01
		Cadmium (Cd)	1.00	0.285	0.28	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	2.61	2.6	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-029	105-W-29	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	<0.500	<0.50	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	2.03	2.0	L01

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Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-030	105-W-30	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	11.3	11	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	<1.00	<1.0	L01
		Lead (Pb)	1.00	1.54	1.5	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-031	105-W-31	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	2.64	2.6	L01
		Cadmium (Cd)	1.00	<0.100	<0.10	L01
		Chromium (Cr)	1.00	1.00	1.0	L01
		Lead (Pb)	1.00	<0.500	<0.50	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-032	105-W-32	Arsenic (As)	1.00	<2.50	<2.5	L01
		Barium (Ba)	1.00	12.0	12	L01
		Cadmium (Cd)	1.00	0.215	0.22	L01

Environmental Hazards Services, L.L.C

Client Number: 26-3514

Report Number: 24-06-01655

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Chromium (Cr)	1.00	22.3	22	L01
		Lead (Pb)	1.00	3.07	3.1	L01
		Selenium (Se)	1.00	<2.50	<2.5	L01
		Silver (Ag)	1.00	<0.500	<0.50	L01
24-06-01655-033	105-W-33	Arsenic (As)		<2.50	---	L01
		Barium (Ba)		4.45	---	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
24-06-01655-034	105-W-34	Arsenic (As)		<2.50	---	L01
		Barium (Ba)		1.90	---	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
24-06-01655-035	105-W-35A	Arsenic (As)		<2.50	---	L02

Environmental Hazards Services, L.L.C

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

Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
		Barium (Ba)		0.840	---	L02
		Cadmium (Cd)		<0.100	---	L02
		Chromium (Cr)		<1.00	---	L02
		Lead (Pb)		<0.500	---	L02
		Selenium (Se)		<2.50	---	L02
		Silver (Ag)		<0.500	---	L02
24-06-01655-036	105-W-35B	Arsenic (As)		<2.50	---	L02
		Barium (Ba)		1.52	---	L02
		Cadmium (Cd)		<0.100	---	L02
		Chromium (Cr)		<1.00	---	L02
		Lead (Pb)		<0.500	---	L02
		Selenium (Se)		<2.50	---	L02
		Silver (Ag)		<0.500	---	L02

Environmental Hazards Services, L.L.C

Client Number: 26-3514

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

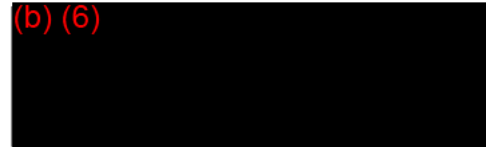
Lab Sample Number	Client Sample Number	Analyte:	Wipe Area (ft ²)	Total Metal (ug)	Concentration (ug/ft ²)	Narrative ID
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Sample Narratives:

- L01: LCS and LCSD percent recovery for Se were outside of acceptance limits.
- L02: Both samples labeled 35. LCS and LCSD percent recovery for Se were outside of acceptance limits.

Analyst: Carlos Gonzalez

Method: EPA SW846 3050B/6010D



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 ² = micrograms per square foot
	mL = milliliter	ft ² = square foot

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 1 of 3

Company Name: Burns & McDonnell	Account #: 26-3514
Company Address: 9400 Ward Parkway	City/State/Zip: Kansas City, MO 64114
Phone: 314-302-4661	Email: alanstaett@burnsmcd.com
Project Name / Testing Address: GFC / 4300 Goodfellow Blvd	
PO Number: 168765	Collected By: T. Uddin + E. Wenger
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	

USE 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	CA17 Total		Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Total Time	Flow Rate	Vol.	AREA <small>Circle The Unit of Measurement Used</small>	
																Mins.	L/min	Total Liters		cm
									Ag, As, Ba, Cd, Cr, Pb, Se											
1	105-W-01	6/3/24 1525																		12 x 12"
2	105-W-02	6/3/24 1528							↓										x	
3	105-W-03	6/3/24 1533								x										
4	105-W-04	6/3/24 1538								x										
5	105-W-05	6/3/24 1545								x										
6	105-W-06	6/3/24 1546								x										
7	105-W-07	6/3/24 1551								x										
8	105-W-08	6/3/24 1552								x										
9	105-W-09	6/3/24 1557								x										
10	105-W-10	6/3/24 1600								x										
11	105-W-11	6/3/24 1603								x										
12	105-W-12	6/3/24 1610									36 x 4									
13	105-W-13	6/3/24 1616									72 x 2									
14	105-W-14	6/4/24 0837									12 x 12									
15	105-W-15	6/4/24 0841									↓ x ↓									

Released By: A. Anstaett	Date: 6/7/24	Time: 1400
Signature: (b) (6)		

LAB USE ONLY - BELOW THIS LINE

Received By: **Sadler**
 Signature: **(b) (6)**
 Date: 6/11/24 Time: 5:04 AM PM

Portal Contact Added

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

24-06-01655

Due Date:
06/18/2024
(Tuesday)
EL MM-L

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 2 of 3

Company Name	Burns & McDonnell	Account #	26-3514
Company Address	9400 Ward Parkway	City/State/Zip	Kansas City, MO 64114
Phone	314-302-4661	Email	alanstaett@burnsmcd.com
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd	
PO Number	168765	Collected By	T. Uddin + a merge
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		

USE MICRO-EX	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 <small>Circle The Unit of Measurement Used</small>
																Mins.	L/min	Total Liters	
	105-W-16	6/4/24 0845							Ag, As, Ba, Cd, Cr, Pb, Se									12 x 12	
	* 105-W-17	0849	+WDE received labeled							107 AL	6/14/24								12 x 12
	105-W-18	0853															12 x 12		
	105-W-19	0858															36 x 4		
	105-W-20	0900															12 x 12		
	105-W-21	0905															48 x 3		
	105-W-22	0910															12 x 12		
	105-W-23	0915															12 x 12		
	105-W-24	0918															12 x 12		
	105-W-25	0937															12 x 12		
	105-W-26	0942															12 x 12		
	105-W-27	0945															12 x 12		
	105-W-28	0949															48 x 3		
	105-W-29	0953															12 x 12		
	105-W-30	1001															36 x 4		

Released By: A. Anstaett Date: 6/7/24 Time: 1400
 Signature: (b) (6)

LAB USE ONLY - BELOW THIS LINE

Received By: Sentler
 Signature: (b) (6)
 Date: 6/11/24 Time: 5:04 AM PM

Portal Contact Added

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

1655

EHS Laboratories

Laboratories

Attach Laboratory Label Here

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 3 of 3

Company Name	Burns & McDonnell	Account #	26-3514
Company Address	9400 Ward Parkway	City/State/Zip	Kansas City, MO 64114
Phone	314-302-4661	Email	alanstaett@burnsmcd.com
Project Name / Testing Address		GFC / 4300 Goodfellow Blvd	
PO Number	168765	Collected By	T. Uddin + E. Weiger
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		

LSE NUMBER	Client Sample ID	Collection Date & Time	METALS						Other Metals	PARTICULATES				AIR			WIPES				
			Pb TCLP	TCLP RCRA &	RCRA & Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP		CA 17 Total	Ag, As, Pb, Se	Ba, Cd, Cr	Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Total Time	Flow Rate	Vol.	AREA
													mins.	l/min	Total Liters	cm ²	in ²				
	105-W-31	6/4/24 1004																			12 x 12"
	105-W-32	1013																			12 x 12
	105-W-33	1028																			NA x NA
	105-W-34	1029																			NA x NA
	* 105-W-35	1030																			NA x NA
	* 105-W-36	1032																			NA x NA
	105-A-01	6/3/24 1203																			
	105-A-02	1205																			
	105-A-03	1209																			
	105-A-04	1212																			
	105-A-05	1214																			
	105-A-06	1619																			
	105-A-07	1611																			
	105-A-08	1621																			
	105-A-09	1623																			

#Two samples were received labeled 35, and 36 was not received. Label 1 35A is the 2nd one.

Released By:	A. Anstuetz	Date:	6/7/24	Time:	1400
Signature:	(b) (6)				

LAB USE ONLY - BELOW THIS LINE

Received By: S. Soder

Signature: (b) (6)

Date: 6/11/24 Time: 5:04 AM PM

Portal Contact Added

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

1655

EHS Laboratories

Attach Laboratory Label Here

Amanda Lowery

From: Anstaett, Ashley L <alanstaett@burnsmcd.com>
Sent: Monday, June 17, 2024 9:02 AM
To: Amanda Lowery
Cc: frontdesk@leadlab.com
Subject: RE: Goodfellow Blvd 24-06-01655

External (alanstaett@burnsmcd.com)

[Report This Email](#) [FAQ](#) [GoDaddy Advanced Email Security](#), Powered by INKY

Good morning Amanda,

Go ahead and run the two 35s. You can label one 35A and one 35B. Note however you need to in the report about the mislabeled receipt, since we don't actually know which ones are the original 35 and 36.

Thank you so much, as always, for all of your help!

Ashley

From: Amanda Lowery <alowery@leadlab.com>
Sent: Friday, June 14, 2024 12:28 PM
To: Anstaett, Ashley L <alanstaett@burnsmcd.com>
Cc: frontdesk@leadlab.com
Subject: RE: Goodfellow Blvd 24-06-01655

Thank you Ashley!

I made a change to the 107 tube to say 17. And just let us know about the 35's as soon as you can. But like I said they are due out on Tuesday

Amanda

From: Anstaett, Ashley L <alanstaett@burnsmcd.com>
Sent: Friday, June 14, 2024 1:25 PM
To: Amanda Lowery <alowery@leadlab.com>
Cc: frontdesk@leadlab.com
Subject: RE: Goodfellow Blvd 24-06-01655

Hi Amanda,

Thank you for reaching out!

I believe 105-W-107 should be 105-W-17, and that it should still be analyzed. Let me check with the folks who collected the samples and the Project Manager about what we should do for the two labeled 105-W-35. I'll get back to you shortly.

Thank you as always for your help!

Ashley Anstaett \ Burns & McDonnell
Environmental Consultant
o 314-501-1467 \ m 636-233-1270
alanstaett@burnsmcd.com \ burnsmcd.com

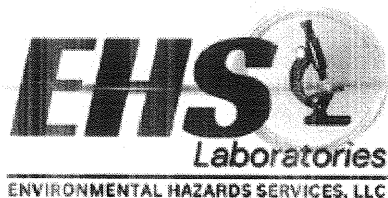
From: Amanda Lowery <alowery@leadlab.com>
Sent: Friday, June 14, 2024 12:21 PM
To: Anstaett, Ashley L <alanstaett@burnsmcd.com>
Cc: frontdesk@leadlab.com
Subject: Goodfellow Blvd 24-06-01655
Importance: High

Good afternoon Ashley,

I called and left a message. We have a Goodfellow project in house due out Tuesday. We have a small issue. We have two tubes labeled 105-W-35 and missing the 36. Then we also have a tube that is labeled 105-W-107 but we are missing sample labeled 105-W-17. If you can please tell us how you would like to proceed with this project, we can get these samples analyzed for you

Thanks,
Amanda

Amanda Lowery
Customer Service



📍 7469 Whitepine Road, North Chesterfield, VA 23237
📞 800-347-4010
🌐 www.leadlab.com

Please leave us a Google review 😊 - <https://g.page/r/CY6WRFBQpVMWEBE/review>

IMPORTANT INFORMATION - BEFORE SHIPPING PACKAGES THROUGH THE U.S. POSTAL SERVICE

The U.S. Postal Service should not be considered a reliable carrier when shipping time-sensitive projects to EHS Laboratories. Priority Express Mail Service often arrives too late in the afternoon for EHS to accommodate same day analysis. (USPS Updated Guaranteed service guidelines is delivery by 6pm)

Additionally, packages shipped USPS non-priority (regular mail) are now routinely delivered several days later than expected. We anticipate these delays to continue, if not increase, during the upcoming holiday season. At this time, we recommend shipping via UPS or Fed Ex.

