

July 13, 2021

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

Re: Goodfellow Federal Center – Bldg. 103 Air Sampling

Project No. 121244

Dear Ms. Czarnecki:

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

METHODOLOGY

On June 25, 2021, Emily Ahlemeyer and Ashley Anstaett of Burns & McDonnell conducted area air-sampling for the presence of seven (7) of the RCRA metals including arsenic, barium, cadmium, chromium, lead, selenium, and silver. Sampling was conducted in various locations throughout Building 103.

The sampling scheme, number of samples, sample distribution, and general methodology was developed based on previous investigation methodology and in coordination with the GSA. Sample locations and samples collected from discretionary locations were determined by sampling personnel while on-site.

Air samples for RCRA metals were collected on 37-millimeter (mm) cassettes with 0.8 micrometer (µm) 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. Air samples were submitted under chain-of-custody to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for independent analysis of 7 RCRA metals according to NIOSH method 7300. EHS is accredited under the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) program, identification number LAP-100420.



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RESULTS AND DISCUSSION

Results of the air sampling are summarized in the table below by identifying the range of results for Building 103 for each of the seven (7) metals that were sampled. Results indicate that all 22 air samples collected from Building 103 and analyzed for RCRA metals were below their respective OSHA Permissible Exposure Limit (PEL), as based on a time-weighted-average.

Table 1. Summary of Air Sampling Results

Analyte	Lowest Concentration ^(a) (µg/m ³) ^(b)	Highest Concentration ^(a) (μg/m ³) ^(b)	Permissible Exposure Limit (PEL) (μg/m³) ^(b)
Arsenic	< 0.24	< 0.28	10
Barium	< 0.24	< 0.28	500
Cadmium	< 0.048	< 0.055	5
Chromium (Total)	<1.2	<1.4	500
Lead	< 0.24	<0.28	50
Selenium	<1.2	<1.4	200
Silver	< 0.24	<0.28	10

Notes:

- (a) Samples with a "<" sign indicate that the results were below the laboratory's reporting limit, which varies based on sample air volume.
- (b) $\mu g/m^3 = micrograms per cubic meter of air.$

GSA may choose to compare results with guidance limits from additional organizations for risk evaluation, including but not limited to the American Conference of Governmental Industrial Hygienists (ACGIH) and/or the World Health Organization (WHO).

A summary table of all sampling results by location is included in Appendix A. The complete laboratory report for the air sampling from EHS is attached in Appendix B.

LIMITATIONS

The scope of this assessment was limited as follows. Burns & McDonnell collected samples from a select number of locations in an effort to minimize cost while providing a general overview of the air quality at the site. Sample locations do not encompass every indoor space at the site. Additionally, based on previous sampling history, samples were only analyzed for a select number of potential contaminants likely to affect the air quality at the site. Burns &



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McDonnell is not responsible for potential contaminants not identified in this report. This report was prepared for the sole use of GSA.

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

Sincerely,



Matt Shanahan, CHMM Project Manager

Attachments:

Appendix A – Results Summary by Location Appendix B – Air Sample Laboratory 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 reenvironmental@gsa.gov.



Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
103-A-01	1st floor, north lobby	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-02	1st floor, column H3, DISA office	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-03	1st floor, column G4, DISA office	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-04	1st floor, column E3, DISA office	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-05	1st floor, column C5, hallway, DISA	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
103-A-06	1st floor, column C8, HVAC room	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-07	2nd floor, column B15, window sill, DISA	Arsenic	< 0.26	μg/m³	10
		Barium	< 0.26	μg/m³	500
		Cadmium	< 0.052	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.26	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.26	μg/m³	10
103-A-08	2nd floor, column F22, office, DISA	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-09	2nd floor, column G6, break room, DISA	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10
103-A-10	2nd floor, column F1, window sill, DISA	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.055	μg/m³	5
		Chromium	< 1.4	μg/m³	500
		Lead	< 0.28	μg/m³	50
		Selenium	< 1.4	μg/m³	200
		Silver	< 0.28	μg/m³	10

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
103-A-11	Field blank	Arsenic	< 0.15	μg	
		Barium	< 0.15	μg	
		Cadmium	< 0.030	μg	
		Chromium	< 0.75	μg	
		Lead	< 0.15	μg	
		Selenium	< 0.75	μg	
		Silver	< 0.15	μg	
103-A-12	1st floor, column B31, hallway	Arsenic	< 0.24	μg/m³	10
		Barium	< 0.24	μg/m³	500
		Cadmium	< 0.048	μg/m³	5
		Chromium	< 1.2	μg/m³	500
		Lead	< 0.24	μg/m³	50
		Selenium	< 1.2	μg/m³	200
		Silver	< 0.24	μg/m³	10
103-A-13	1st floor, column G32, office	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.049	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10
103-A-14	1st floor, column J36, break room	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.049	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10
103-A-15	1st floor, column E39, office	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.050	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
103-A-16	1st floor, column B37, office	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.050	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10
103-A-17	2nd floor, column G32, training room	Arsenic	< 0.24	μg/m³	10
		Barium	< 0.24	μg/m³	500
		Cadmium	< 0.048	μg/m³	5
		Chromium	< 1.2	μg/m³	500
		Lead	< 0.24	μg/m³	50
		Selenium	< 1.2	μg/m³	200
		Silver	< 0.24	μg/m³	10
103-A-18	2nd floor, column H34, break room	Arsenic	< 0.24	μg/m³	10
		Barium	< 0.24	μg/m³	500
		Cadmium	< 0.048	μg/m³	5
		Chromium	< 1.2	μg/m³	500
		Lead	< 0.24	μg/m³	50
		Selenium	< 1.2	μg/m³	200
		Silver	< 0.24	μg/m³	10
103-A-19	2nd floor, column F38, office	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.050	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10
103-A-20	2nd floor, column B36, window sill	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.050	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10

Appendix A

Results Summary by Location

Sample	Location	Analyte	Result	Units	Recommended
Number					Limits ¹
103-A-21	2nd floor, column B32, hallway	Arsenic	< 0.25	μg/m³	10
		Barium	< 0.25	μg/m³	500
		Cadmium	< 0.050	μg/m³	5
		Chromium	< 1.3	μg/m³	500
		Lead	< 0.25	μg/m³	50
		Selenium	< 1.3	μg/m³	200
		Silver	< 0.25	μg/m³	10
103-A-22	Field blank	Arsenic	< 0.15	μg	
		Barium	< 0.15	μg	
		Cadmium	< 0.030	μg	
		Chromium	< 0.75	μg	
		Lead	< 0.15	μg	
		Selenium	< 0.75	μg	
		Silver	< 0.15	μg	

Notes:

¹Limits equal to the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs)





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: 21-06-04582

Received Date:

06/29/2021

Reported Date: 07/02/2021

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	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
21-06-04582-001	103-A-01	06/30/2021	Arsenic (As)	548	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-002	103-A-02	06/30/2021	Arsenic (As)	553	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-003	103-A-03	06/30/2021	Arsenic (As)	553	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	

Client Number: 26-3514 Report Number: 21-06-04582

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-004	103-A-04	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-005	103-A-05	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-006	103-A-06	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	

Client Number: 26-3514 Report Number: 21-06-04582

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
21-06-04582-007	103-A-07	06/30/2021	Arsenic (As)	583	<0.15	<0.26	
			Barium (Ba)		<0.15	<0.26	
			Cadmium (Cd)		<0.030	<0.052	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.26	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.26	
21-06-04582-008	103-A-08	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-009	103-A-09	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-010	103-A-10	06/30/2021	Arsenic (As)	550	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.055	
			Chromium (Cr)		<0.75	<1.4	

Client Number: 26-3514 Report Number: 21-06-04582

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Lead (Pb)		<0.15	<0.28	
			Selenium (Se)		<0.75	<1.4	
			Silver (Ag)		<0.15	<0.28	
21-06-04582-011	103-A-11	06/30/2021	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		
21-06-04582-012	103-A-12	06/30/2021	Arsenic (As)	630	<0.15	<0.24	
			Barium (Ba)		<0.15	<0.24	
			Cadmium (Cd)		<0.030	<0.048	
			Chromium (Cr)		<0.75	<1.2	
			Lead (Pb)		<0.15	<0.24	
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.24	
21-06-04582-013	103-A-13	06/30/2021	Arsenic (As)	620	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.049	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-014	103-A-14	06/30/2021	Arsenic (As)	620	<0.15	<0.25	

Client Number: 26-3514 Report Number: 21-06-04582

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.049	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-015	103-A-15	06/30/2021	Arsenic (As)	603	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.050	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-016	103-A-16	06/30/2021	Arsenic (As)	600	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.050	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-017	103-A-17	06/30/2021	Arsenic (As)	625	<0.15	<0.24	
			Barium (Ba)		<0.15	<0.24	
			Cadmium (Cd)		<0.030	<0.048	
			Chromium (Cr)		<0.75	<1.2	
			Lead (Pb)		<0.15	<0.24	

Client Number: 26-3514 Report Number: 21-06-04582

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.24	
21-06-04582-018	103-A-18	06/30/2021	Arsenic (As)	632	<0.15	<0.24	
			Barium (Ba)		<0.15	<0.24	
			Cadmium (Cd)		<0.030	<0.048	
			Chromium (Cr)		<0.75	<1.2	
			Lead (Pb)		<0.15	<0.24	
			Selenium (Se)		<0.75	<1.2	
			Silver (Ag)		<0.15	<0.24	
21-06-04582-019	103-A-19	06/30/2021	Arsenic (As)	603	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.050	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-020	103-A-20	06/30/2021	Arsenic (As)	605	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	
			Cadmium (Cd)		<0.030	<0.050	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-021	103-A-21	06/30/2021	Arsenic (As)	605	<0.15	<0.25	
			Barium (Ba)		<0.15	<0.25	

Client Number: 26-3514 Report Number: 21-06-04582

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

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Cadmium (Cd)		<0.030	<0.050	
			Chromium (Cr)		<0.75	<1.3	
			Lead (Pb)		<0.15	<0.25	
			Selenium (Se)		<0.75	<1.3	
			Silver (Ag)		<0.15	<0.25	
21-06-04582-022	103-A-22	06/30/2021	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		
Sample Narrative	s:						

Method: NIOSH 7300M

Analyst: Kailee Guthrie

(b) (6)

Tasha Eaddy QA/QC Clerk

Reviewed By Authorized Signatory:

Sample Results denoted with a "less than" (<) sign contains less than the reporting limit for each particular metal, based on a 15mL volume. The reporting limit is 0.03ug for Cadmium, 0.15ug for Arsenic, Barium, Lead and Silver, and 0.75ug for Chromium and Selenium.

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. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND ug = microgram ug/m³ = micrograms per cubic meter
mL = milliliter L= Liters

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

 $Pg \int of 2$

	Company Name	Rurr	ne & Mo	Donnoll						-			T				00	- 0.0		······································	8	_ 01
	ompany Address												ссо			26-3514						
, c.	Phone	-	-302-466				***************************************	***************************************					City/S									
	Project Name / Te	1					-J£-		r						Ema	311	ea	an	emeye	er@b	urnsm	cd.com
•	PO Number	1687		GFC / 4300	JG	100	are	HO				a d Do	en el f.	IA .					1	***************************************		. 11
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AB NUMBER	Client		Colle			8.8	ital	rofile	Profile	o.	ŢĘ.			e Dust	Just	etric			Total Time	Flow Rate	Vol.	AREA
LAB	Sample ID		Date 8	& Time	Pb TCLP	TCLP RCRA	RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP	CA 17 Total	1	ther etals	Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Mins.	L/min.	Total Liters	Circle The Unit of Measurement Used Cm Or in
1	103-A-01	61	25/21	0756								AgiAs	Baica, Bise						219		548	x
2	103-A-02		1	0759								1							221		553	x
3	103-A-03			0700															221		553	x
4	103 - A-04			0802									-						226		556	×
5	103 -A-05			0863															220		550	×
6	103-A-06			0805															220		550	×
7	103-A-07			0807							***************************************								220		583	x
8	103 - A - O8			0808											***********				220		550	х
9	103-A-09			0810															220		550	x
10	103-A-10			0811															220		550	x
11	103-A-11		C CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	0830								D-10 company							NA	NA	NA	x
12	103-A-12			1207															247		636	х
13	103 -A - 13			1208														-	248		620	Х
14	103-A-14			1209															248		620	X
15	103 -A - 15			1211															241		1003	х
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	Signature: (t	o) (6)					natal minus									***************************************	***************************************			·		
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7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010

RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

21-06-04582



Due Date: 07/02/2021 (Friday) EL

MM-L

ENVIRONMENTAL HAZARDS SERVICES, LLC

Metals Chain of Custody Form

Pg 2 of 2

	Company Name	Burns	& McD	onnell						***************************************	***************************************	***************************************	A	cco	unt	#	26	-35	514			
Cc	ompany Address	9400	Ward P	arkway								***************************************	City/S	/State/Zip Kansas City, MO 64114								
	Phone	314-3	02-466	1										E	Ema	ail	ea	ah	lemeye	er@b	urnsm	cd.com
Р	roject Name / Te	sting Ad	ldress G	FC / 430	0 G	00	dfe	llo	w E	3lv	d				***********		***************************************	************				
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	Sample ID		Date & Time		Pb TCLP	TCLP RCRA 8	RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP	CA 17 Total	1	ther etals	Total Nuisance Dust	Respirable Dust	TSP Gravimetric	TSP Pb	PM-10	Mins.	I /min I		Circle The Unit of Measurement Used
1	103-A-16	6/21	5/21	1213								Ag.As.	Baildi Buse				100000	200	240		600	x
2	103-A-17		•	1215								1							245		625	x
3	103-A-18			1216	ŀ														243		632	×
4	103-A-19			1217											-				241		603	x
5	103 - A - 20			1220				·											242		1005	×
6	103-A-21			1221															242		605	х
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এ 7469 WI	HTEPINE RI	o, RICHIV			(800)-347	ATTACON CHARGOSTON CO.	
⊈ RESULTS	MA CLIENT	PORTAI	L AVAIL	ABLE @ V	vww.ieadia	b.com	



Attach Laboratory Label Here