

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. 110 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 23, 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 110.

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 110 for each of the seven (7) metals that were sampled. Results indicate that all 22 air samples collected from Building 110 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	< 0.20	< 0.30	10
Barium	< 0.20	< 0.30	500
Cadmium	< 0.039	< 0.059	5
Chromium (Total)	<1.0	<1.5	500
Lead	< 0.20	< 0.30	50
Selenium	<1.0	<1.5	200
Silver	< 0.20	< 0.30	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) $\mu g/m^3 = \text{micrograms per cubic meter of air.}$

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	Location	Analyte	Result	Units	Recommended
Number					Limits ¹
110-A-01	1st floor, windowsill, column J4	Arsenic	< 0.30	μg/m³	10
		Barium	< 0.30	μg/m³	500
		Cadmium	< 0.059	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.30	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.30	μg/m³	10
110-A-02	1st floor, room 1001A, column E2	Arsenic	< 0.30	μg/m³	10
		Barium	< 0.30	μg/m³	500
		Cadmium	< 0.059	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.30	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.30	μg/m³	10
110-A-03	1st floor, warehouse, top of wooden shelf	Arsenic	< 0.30	μg/m³	10
		Barium	< 0.30	μg/m³	500
		Cadmium	< 0.059	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.30	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.30	μg/m³	10
110-A-04	1st floor, column F8, top of furniture	Arsenic	< 0.30	μg/m³	10
		Barium	< 0.30	μg/m³	500
		Cadmium	< 0.059	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.30	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.30	μg/m³	10
110-A-05	1st floor, break room, column F10	Arsenic	< 0.30	μg/m³	10
		Barium	< 0.30	μg/m³	500
		Cadmium	< 0.059	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.30	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.30	μg/m³	10

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
110-A-06	1st floor, column K13 on desk	Arsenic	< 0.29	μg/m³	10
		Barium	< 0.29	μg/m³	500
		Cadmium	< 0.057	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.29	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.29	μg/m³	10
110-A-07	1st floor, top of fridge, column E16	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
110-A-08	Ice JV warehouse break area	Arsenic	< 0.29	μg/m³	10
		Barium	< 0.29	μg/m³	500
		Cadmium	< 0.058	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.29	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.29	μg/m³	10
110-A-09	Goodwill offices break area	Arsenic	< 0.29	μg/m³	10
		Barium	< 0.29	μg/m³	500
		Cadmium	< 0.057	μg/m³	5
		Chromium	< 1.5	μg/m³	500
		Lead	< 0.29	μg/m³	50
		Selenium	< 1.5	μg/m³	200
		Silver	< 0.29	μg/m³	10
110-A-10	Ice JV offices	Arsenic	< 0.28	μg/m³	10
		Barium	< 0.28	μg/m³	500
		Cadmium	< 0.056	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
110-A-11	Field blank	Arconio	. 015		
110-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	
110 1 10	2 15 10 10 10 10 10 10 10 10 10 10 10 10 10	Silver	< 0.15	μg	
110-A-12	2nd floor, MWTC, training room	Arsenic	< 0.21	μg/m ³	10
		Barium	< 0.21	μg/m ³	500
		Cadmium	< 0.041	μg/m ³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m ³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10
110-A-13	2nd floor, MWTC, column D16	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.042	μg/m³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10
110-A-14	2nd floor, column F13, cubicle	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.042	μg/m³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10
110-A-15	2nd floor, column J12, office	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.042	μg/m³	5
		Chromium	< 1.1	μg/m ³	500
		Lead	< 0.21	μg/m ³	50
		Selenium	< 1.1	μg/m ³	200
		Silver	< 0.21	μg/m ³	10

Sample Number	Location	Analyte	Result	Units	Recommended Limits ¹
110-A-16	2nd floor, column F10, common break room	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.042	μg/m³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10
110-A-17	2nd floor, column D8, alcove	Arsenic	< 0.20	μg/m³	10
		Barium	< 0.20	μg/m³	500
		Cadmium	< 0.040	μg/m³	5
		Chromium	< 1.0	μg/m³	500
		Lead	< 0.20	μg/m³	50
		Selenium	< 1.0	μg/m³	200
		Silver	< 0.20	μg/m³	10
110-A-18	2nd floor, column D4, office	Arsenic	< 0.20	μg/m³	10
		Barium	< 0.20	μg/m³	500
		Cadmium	< 0.039	μg/m³	5
		Chromium	< 0.97	μg/m³	500
		Lead	< 0.20	μg/m³	50
		Selenium	< 0.97	μg/m³	200
		Silver	< 0.20	μg/m³	10
110-A-19	2nd floor, column J3, common space	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.042	μg/m³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10
110-A-20	2nd floor, column M4, window sill	Arsenic	< 0.21	μg/m³	10
		Barium	< 0.21	μg/m³	500
		Cadmium	< 0.041	μg/m³	5
		Chromium	< 1.1	μg/m³	500
		Lead	< 0.21	μg/m³	50
		Selenium	< 1.1	μg/m³	200
		Silver	< 0.21	μg/m³	10

Appendix A

Results Summary by Location

Sample	Location	Analyte	I	Result	Units	Recommended
Number						Limits ¹
110-A-21	2nd floor, column F5, office	Arsenic	<	0.21	μg/m³	10
		Barium	<	0.21	μg/m³	500
		Cadmium	<	0.041	μg/m³	5
		Chromium	<	1.1	μg/m³	500
		Lead	<	0.21	μg/m³	50
		Selenium	<	1.1	μg/m³	200
		Silver	<	0.21	μg/m³	10
110-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: 21-06-04596

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
21-06-04596-001	110-A-01	06/30/2021	Arsenic (As)	513	<0.15	<0.30	
			Barium (Ba)		<0.15	<0.30	
			Cadmium (Cd)		<0.030	<0.059	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.30	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.30	
21-06-04596-002	110-A-02	06/30/2021	Arsenic (As)	513	<0.15	<0.30	
			Barium (Ba)		<0.15	<0.30	
			Cadmium (Cd)		<0.030	<0.059	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.30	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.30	
21-06-04596-003	110-A-03	06/30/2021	Arsenic (As)	513	<0.15	<0.30	
			Barium (Ba)		<0.15	<0.30	
			Cadmium (Cd)		<0.030	<0.059	

Client Number: 26-3514 Report Number: 21-06-04596

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.30	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.30	
21-06-04596-004	110-A-04	06/30/2021	Arsenic (As)	515	<0.15	<0.30	
			Barium (Ba)		<0.15	<0.30	
			Cadmium (Cd)		<0.030	<0.059	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.30	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.30	
21-06-04596-005	110-A-05	06/30/2021	Arsenic (As)	510	<0.15	<0.30	
			Barium (Ba)		<0.15	<0.30	
			Cadmium (Cd)		<0.030	<0.059	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.30	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.30	
21-06-04596-006	110-A-06	06/30/2021	Arsenic (As)	530	<0.15	<0.29	
			Barium (Ba)		<0.15	<0.29	
			Cadmium (Cd)		<0.030	<0.057	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.29	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.29	

Client Number: 26-3514 Report Number: 21-06-04596

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
21-06-04596-007	110-A-07	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	
21-06-04596-008	110-A-08	06/30/2021	Arsenic (As)	523	<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	
21-06-04596-009	110-A-09	06/30/2021	Arsenic (As)	533	<0.15	<0.29	
			Barium (Ba)		<0.15	<0.29	
			Cadmium (Cd)		<0.030	<0.057	
			Chromium (Cr)		<0.75	<1.5	
			Lead (Pb)		<0.15	<0.29	
			Selenium (Se)		<0.75	<1.5	
			Silver (Ag)		<0.15	<0.29	
21-06-04596-010	110-A-10	06/30/2021	Arsenic (As)	541	<0.15	<0.28	
			Barium (Ba)		<0.15	<0.28	
			Cadmium (Cd)		<0.030	<0.056	
			Chromium (Cr)		<0.75	<1.4	

Client Number: 26-3514 Report Number: 21-06-04596

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	
21-06-04596-011	110-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		
21-06-04596-012	110-A-12	06/30/2021	Arsenic (As)	740	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.041	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-013	110-A-13	06/30/2021	Arsenic (As)	725	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.042	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-014	110-A-14	06/30/2021	Arsenic (As)	725	<0.15	<0.21	

Client Number: 26-3514 Report Number: 21-06-04596

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.042	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-015	110-A-15	06/30/2021	Arsenic (As)	725	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.042	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-016	110-A-16	06/30/2021	Arsenic (As)	725	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.042	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-017	110-A-17	06/30/2021	Arsenic (As)	751	<0.15	<0.20	
			Barium (Ba)		<0.15	<0.20	
			Cadmium (Cd)		<0.030	<0.040	
			Chromium (Cr)		<0.75	<1.0	
			Lead (Pb)		<0.15	<0.20	

Client Number: 26-3514 Report Number: 21-06-04596

Lab Sample Number	Client Sample Number	Analyzed Date	Analyte	Air Volume (L)	Total Metal (ug)	Concentration (ug/m³)	Narrative ID
			Selenium (Se)		<0.75	<1.0	
			Silver (Ag)		<0.15	<0.20	
21-06-04596-018	110-A-18	06/30/2021	Arsenic (As)	778	<0.15	<0.20	
			Barium (Ba)		<0.15	<0.20	
			Cadmium (Cd)		<0.030	<0.039	
			Chromium (Cr)		<0.75	<0.97	
			Lead (Pb)		<0.15	<0.20	
			Selenium (Se)		<0.75	<0.97	
			Silver (Ag)		<0.15	<0.20	
21-06-04596-019	110-A-19	07/01/2021	Arsenic (As)	720	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.042	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-020	110-A-20	07/01/2021	Arsenic (As)	732	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	
			Cadmium (Cd)		<0.030	<0.041	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-021	110-A-21	07/01/2021	Arsenic (As)	746	<0.15	<0.21	
			Barium (Ba)		<0.15	<0.21	

Client Number: 26-3514 Report Number: 21-06-04596

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	<0.041	
			Chromium (Cr)		<0.75	<1.1	
			Lead (Pb)		<0.15	<0.21	
			Selenium (Se)		<0.75	<1.1	
			Silver (Ag)		<0.15	<0.21	
21-06-04596-022	110-A-22	07/01/2021	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

Reviewed By Authorized Signatory:

(b) (6)

Tasha Eaddy QA/QC Clerk

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

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AB NUMBER	Client Sample ID	:	ollection te & Time	LP	RA 8	Fotal	Profile	ie Profil	CLP	otal	045		ce Dust	Dust	netric	0	C	Total Time	Flow Rate	Vol.	AREA
	s complete			Pb TCLP	TCLP RCRA 8	TCLP RCRA 8 RCRA 8 Total	Toxic Metal Profile	Welding Fume Profile	TX 11 TCLP	CA 17 Total	Oth Met		Total Nuisance	Respirable Dust	TSP Gravimetric	TSP Pb	PM- 10	Mins,	L/min.	Total Liters	Circle The Unit of Measurement Used cm or in
1	110-A-01	6/23/21	0625								Ag. As, 6 Cr. Pk	Ba.Cd,						205		513	X
2	110 -A-02		0626	ļ)							205		513	x
3	110 -A - 03		0628															205		513	X
4	110 - A - 04	A CONTRACTOR OF THE CONTRACTOR	0628															206		515	X
5	110-A-05	WARRANTA	0631															204		510	X
6	110 - A-06		0032															204		630	x
7	110-A-07		0633															203		548	X
8	110-A-08		0035															209		523	X
9	110-A-09		0636															209		533	x -
10	110 - A-10		0637									·						208		541	x
11	110 -A -11		1000															NA	NA	NA	· x
12	110-A-12		1015															200		740	X
13	110-A-13		1015															290		725	X
14	110 -A - 14		1016															290		725	X
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	Portal Contact A	Added																			

2 7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010

🚅 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

Due Date: 07/02/2021 (Friday)

EL

MM-L

Metals Chain of Custody Form Pg 2 of 2 Company Name Account # Company Address City/State/Zip Phone 314-302-410 Email 4300 Goodfellow Project Name / Testing Address Blvd PO Number 108765 Collected By Turn-Around Time X 3 DAY 2 DAY 1 DAY SAME DAY OR WEEKEND - Must Call Ahead **METALS PARTICULATES** AIR WIPES Foxic Metal Profile Welding Fume Profile Total Flow Fotal Nuisance Dust Vol. Client Collection Respirable Dust **ISP Gravimetric** Time TCLP RCRA 8 RCRA 8 Total TX 11 TCLP Total AREA Sample ID Date & Time Pb TCLP TSP Pb PM- 10 Other Circle The Unit of 17 Metals Measurement Used CA Total Mins. L/min. Liters cm or in Ag. As. Ba, Cd 6/23/21 110-A-16 1018 290 725 Х Cr. Pb. Se 110-A-17 1019 290 751 Х 110 - A - 18 1021 778 289 110 -A-19 1022 288 720 Х 1024 110 - A - 20 287 732 Х 110-A-21 1025 746 287 1000 110-A-22 NA NA NA Х Х 10 Х 11 Х 12 13 Х 14 Х - 15 Emily Aniemesser Released By: Date: 6/25/21 Time: 11000 (b) (6) Signature:

	8			LAB US	E ONLY – BELOW THIS LIN	E
Received By:	-(5)	3 W	0			
Signature:	(b) (6)					
Date: 0/26	1,2	ime:	12:	54		
Portal Contact	Added					
2 7469 WHITEPI	NE RD, RICHMO			(800)-34		



Attach Laboratory Label Here