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January 8, 2020

Diane Czarnecki
Industrial Hygienist
Facilities Management Division
GSA Public Buildings Service - Heartland Region
U.S. General Services Administration
2300 Main Street, Kansas City, MO 64108

RE: Goodfellow Federal Center
Metals in Settled Dust Sampling – Building #103
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 919103

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 #103 located at the Goodfellow Federal Center (GFC) in St. Louis, Missouri. OCCU-TEC Inc. (OCCU-TEC) 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.

On December 5, 2019, a team of OCCU-TEC personnel including a Missouri licensed lead risk assessor conducted settled dust sampling for the presence of six (6) of the Resource Conservation and Recovery Act (RCRA) target metals (lead, arsenic, barium, cadmium, selenium, and silver) from various surfaces within tenant-occupied areas within the building. 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 OCCU-TEC. Specific sample locations were determined by OCCU-TEC personnel while on-site.

Metals in Settled Dust Sampling

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

Dust wipe sampling was conducted in accordance with ASTM Standard E1728-16: Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination. ASTM Standard E1728-16 is consistent with the methodology described in the Housing and Urban Development Guidelines and 40 CRF 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 pre-fabricated, disposable templates. The dust wipe dust wipe cloths meeting ASTM standards. Each moistened and individually wrapped. Each sample was collected by wiping in a back and forth "S" pattern over a measured sampling area. Then, the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation. The wipe samples were then placed into labeled, clean laboratory-supplied plastic centrifuge tubes with screw on caps. Dust wipe samples were submitted to Scientific Analytical Institute, Inc. (SAI) in Greensboro, North Carolina for Inductively Coupled Plasma (ICP) analysis of metals analysis using Environmental Protection Agency (EPA) method SW846 350B/7420.

Results of the dust wipe samples collected from the building indicate that seventeen (17) of the twenty (20) samples contained concentrations of target metals above laboratory detection limits. The following table identifies the range of results for each of the six metals that were analyzed. Samples with a "<" sign indicate that the results were below the reportable limit.

Analysis	Lowest	Highest
	Concentration	Concentration
	(µg/sq. ft.)	(µg/sq. ft.)
Silver	< 0.50	0.95
Arsenic	< 0.50	0.79
Barium	< 0.75	6.40
Cadmium	< 0.050	0.73
Lead	< 0.25	3.90
Selenium	<1.30	1.30

All of the samples collected contained target metals below the Brookhaven recommended levels.

OCCU-TEC appreciates the opportunity to work with GSA on this project. If you have any questions concerning this report, or if we may be of any additional service, please feel free to contact us.

Sincerely,

(b) (6)

Justin Arnold, CIEC Environmental Scientist



(b) (6)

Jeff Smith Senior Project Manager (QA/QC)

Appendices:

- A Sample Location Diagram
- B Sample Summary Table
- C Laboratory Analysis Reports
- D Licenses

Appendix A Sample Location Diagram



EXEMPTION (b)(7)(F)

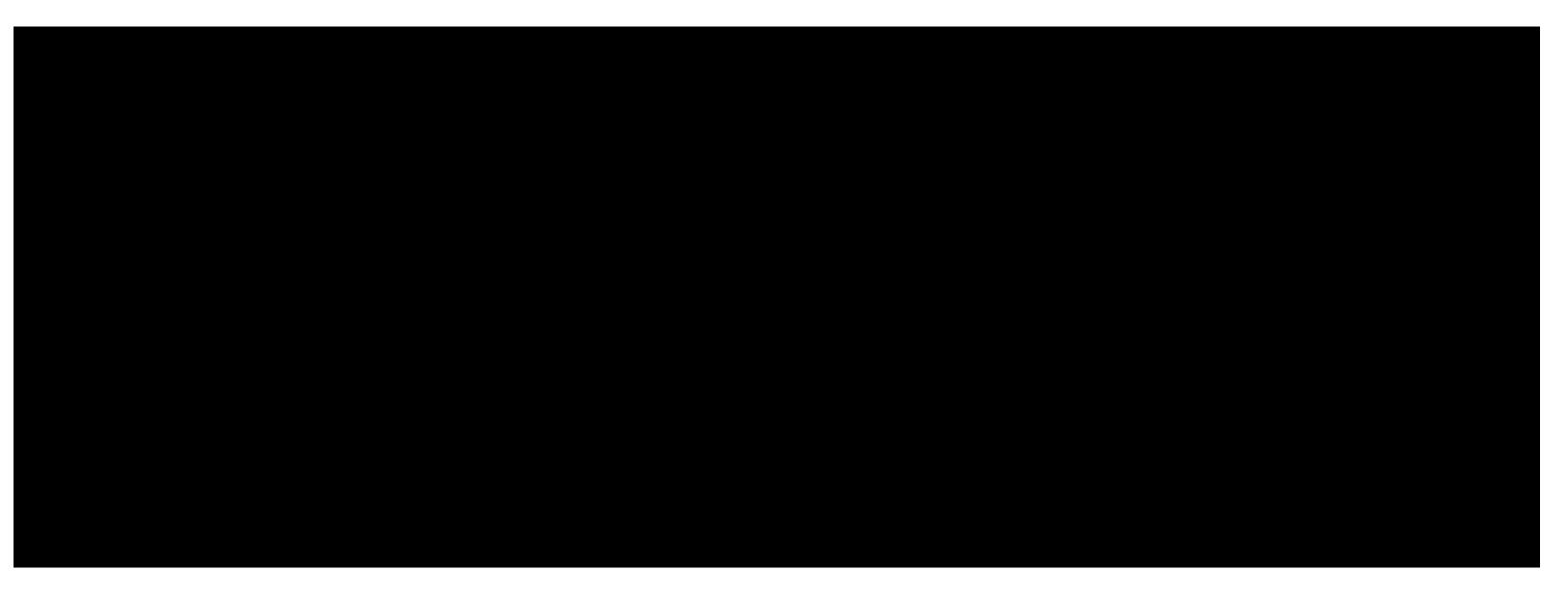
Figure 1: Wipe Sample Location Maps—Bldg. 103—First Floor

Goodfellow Federal Center

4300 Goodfellow Boulevard

St. Louis, Missouri

Project Number: 919103



EXEMPTION (b)(7)(F)

Figure 1: Wipe Sample Location Maps—Bldg. 103—Second Floor

Goodfellow Federal Center

4300 Goodfellow Boulevard

St. Louis, Missouri

Project Number: 919103

Appendix B Sample Summary Table

Goodfellow Federal Center - Building # 103 - Wipe Sample Data								
Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits		
			Silver	< 0.50	μg	* 139/9.3		
			Arsenic	< 0.50	μg	** 62		
122019-MetW-103-01	Field Blank		Barium	< 0.75	μg			
122013 WICKW 103 01	Tield Blank		Cadmium	< 0.05	μg	** 31		
			Lead	< 0.25	μg	** 200/40		
			Selenium	< 1.30	μg			
			Silver	< 0.50	μg	* 139/9.3		
			Arsenic	< 0.50	μg	** 62		
122019-MetW-103-02	Field Blank		Barium	< 0.75	μg			
			Cadmium	< 0.05	μg	** 31		
			Lead	< 0.25	μg	** 200/40		
			Selenium	< 1.30	μg			
			Silver	< 0.50	μg/ft²	* 139/9.3		
			Arsenic	< 0.50	μg/ft²	** 62		
122019-MetW-103-03	Lower Level at Column G-3	Desk	Barium	1.90	μg/ft²			
111013 100 00			Cadmium	0.60	μg/ft²	** 31		
			Lead	0.65	μg/ft²	** 200/40		
			Selenium	< 1.30	μg/ft²			
	Lower Level at Column F-4	Floor	Silver	< 0.50	μg/ft²	* 139/9.3		
			Arsenic	< 0.50	μg/ft²	** 62		
122019-MetW-103-04			Barium	1.50	μg/ft²			
122019-WetW-103-04			Cadmium	0.08	μg/ft²	** 31		
			Lead	0.73	μg/ft²	** 200/40		
			Selenium	< 1.30	μg/ft²			
			Silver	< 0.50	μg/ft ²	* 139/9.3		
	Lower Level at Column D-5	Desk	Arsenic	< 0.50	μg/ft²	** 62		
			Barium	1.10	μg/ft²			
122019-MetW-103-05			Cadmium	0.27	μg/ft²	** 31		
			Lead	0.76	μg/ft ²	** 200/40		
			Selenium	< 1.30	μg/ft ²			
			Silver	< 0.50	μg/ft²	* 139/9.3		
			Arsenic	< 0.50	μg/ft ²	** 62		
			Barium	2.40	μg/ft ²			
122019-MetW-103-06	Lower Level at Column B-6	Floor	Cadmium	0.08	μg/ft ²	** 31		
			Lead	3.50	μg/ft ²	** 200/40		
			Selenium	< 1.30	μg/ft ²	200/40		
			Silver			* 120/0.2		
				< 0.50	μg/ft ²	* 139/9.3 ** 62		
			Arsenic	< 0.50	μg/ft ²	** 62		
122019-MetW-103-07	Lower Level at Column C-12	Desk	Barium	1.90	μg/ft ²	** 0 -		
			Cadmium	0.15	μg/ft ²	** 31		
			Lead	0.74	μg/ft²	** 200/40		
			Selenium	< 1.30	μg/ft²			

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.51	μg/ft²	* 139/9.3
			Arsenic	< 0.51	μg/ft ²	** 62
122010 M-HW 102 00	Line on Lovel et Colone a L 30	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Barium	1.60	μg/ft ²	
122019-MetW-103-08	Upper Level at Column J-20	Window Sill	Cadmium	0.73	μg/ft ²	** 31
			Lead	3.90	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-09	Upper Level at Column H-14	Floor	Barium	1.00	μg/ft²	
122019-MetW-103-09	Opper Level at Column H-14	FIOOI	Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.27	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-10	Haner Lavel at Column D 15	Floor	Barium	1.60	μg/ft²	
122019-1016(00-103-10	Upper Level at Column D-15	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.35	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
	Upper Level at Column G-5	Counter Top	Silver	0.95	μg/ft²	* 139/9.3
			Arsenic	0.79	μg/ft²	** 62
122019-MetW-103-11			Barium	4.30	μg/ft²	
122019-WetVV-103-11			Cadmium	0.11	μg/ft²	** 31
			Lead	0.54	μg/ft²	** 200/40
			Selenium	1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
	Upper Level at Column B-12		Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-12		Floor	Barium	4.80	μg/ft²	
112013 (110011 103 12	opper Level at column 5 12	11001	Cadmium	0.250	μg/ft²	** 31
			Lead	3.30	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.51	μg/ft²	* 139/9.3
			Arsenic	< 0.51	μg/ft²	** 62
122019-MetW-103-13	Upper Level at Column B-21	Window Sill	Barium	1.00	μg/ft²	
			Cadmium	0.71	μg/ft²	** 31
			Lead	2.60	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-14	Upper Level at Column C-25	Floor	Barium	0.96	μg/ft²	
	opper zever at column c 25	501	Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.88	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended
						Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-15	Upper Level at Column D-37	Desk	Barium	0.98	μg/ft²	
122013 100 10	opper zever at coranii 2 37	Desir	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-16	Upper Level at Column H-33	Shelf	Barium	< 0.75	μg/ft²	
122013 WICKW 103 10	opper Level at column 11-33	Shen	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-17	Upper Level at Column H 27	Floor	Barium	< 0.75	μg/ft²	
122019-Metw-103-17	Upper Level at Column H-37	Floor	Cadmium	< 0.05	μg/ft²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
	Lower Level at Column H-33	Floor	Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-18			Barium	1.10	μg/ft²	
122019-MECW-103-18			Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.70	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft ²	** 62
122010 M-+W 102 10	Lower Level at Column J-34	Fl	Barium	< 0.75	μg/ft ²	
122019-MetW-103-19		Floor	Cadmium	< 0.05	μg/ft ²	** 31
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.05	μg/ft²	* 139/9.3
			Arsenic	0.59	μg/ft²	** 62
122010 14-14/ 402 22	Lawrent avelet Cell 11.25	Top of Vending	Barium	6.40	μg/ft ²	
122019-MetW-103-20	Lower Level at Column H-37	Machine	Cadmium	0.33	μg/ft ²	** 31
			Lead	3.70	μg/ft ²	** 200/40
			Selenium	< 1.30	μg/ft ²	
			Silver	< 0.51	μg/ft ²	* 139/9.3
			Arsenic	< 0.51	μg/ft ²	** 62
122010 14.04 102 21	Laurentauria (C.) 500	MC	Barium	1.70	μg/ft ²	
122019-MetW-103-21	Lower Level at Column F-39	Window Sill	Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.50	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft ²	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended
						Limits
		_	Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft²	** 62
122019-MetW-103-22	Lower Level at Column A-36	Floor	Barium	< 0.75	μg/ft²	
122013 WICKW 103 22	Lower Level at Column A-30	11001	Cadmium	< 0.05	μg/ft²	** 31
			Lead	0.40	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

^{*} Recommended Limits based on Table 3 (BNL Surface Wipe Criteria for Metals) of the Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 19: 3/4/14

^{**} Recommended Limits based on Attachment 9.3 (Required & Recommended Surface Wipe Criteria) - Brookhaven Surface Wipe Sampling Procedure (IH75190), Rev 23: 6/23/17 Indicates results at or above REL

Appendix C Laboratory Analytical Reports





NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Lab Order ID: 71931197 Attn: Justin Arnold **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Date Reported:** 12/20/2019 **Project:** 919103 Page: 1 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	(µg)	(μg/ft ²)
			Ag	0.50	< 0.50	
122019-MetW-	Field Blank		As	0.50	< 0.50	
103-01	rieid bialik		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
71931197IPW_			Pb	0.25	< 0.25	
1			Se	1.3	< 1.3	
			Ag	0.50	< 0.50	
122019-MetW-	Field Blank		As	0.50	< 0.50	
103-02	rieid bialik		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
71931197IPW_			Pb	0.25	< 0.25	
2			Se	1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-03	G3	1	Ba	0.75	1.9	1.9
		1	Cd	0.050	0.60	0.60
71931197IPW_			Pb	0.25	0.65	0.65
3			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-04	F4	1	Ba	0.75	1.5	1.5
		1	Cd	0.050	0.082	0.082
71931197IPW_			Pb	0.25	0.73	0.73
4			Se	1.3	< 1.3	< 1.3

Melissa Ferrell	(b) (6)
Analyst	Lab Director

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. 71931197 Attn: Justin Arnold Lab Order ID: **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 12/20/2019 **Date Reported: Project:** 919103 Page: 2 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	Concentration (μg/ft²)
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-05	D5	1	Ba	0.75	1.1	1.1
		1	Cd	0.050	0.27	0.27
71931197IPW_			Pb	0.25	0.76	0.76
5			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-06	В6	1	Ba	0.75	2.4	2.4
		1	Cd	0.050	0.078	0.078
71931197IPW_			Pb	0.25	3.5	3.5
6			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-07	C12		Ba	0.75	1.9	1.9
		1	Cd	0.050	0.15	0.15
71931197IPW_			Pb	0.25	0.74	0.74
7			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.51
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.51
103-08	J20	0.072	Ba	0.75	1.6	1.6
		0.972	Cd	0.050	0.71	0.73
71931197IPW_			Pb	0.25	3.8	3.9
8			Se	1.3	< 1.3	< 1.3

(b) (6) Melissa Ferrell **Lab Director** Analyst

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NIOSH 7300/EPA SW-846 3050B

OCCU-TEC Inc. **Client:** Attn: Justin Arnold Lab Order ID: 71931197 **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Date Reported:** 12/20/2019 **Project:** 919103 Page: 3 of 6

Sample ID **Description Reporting** Concentration Concentration Area Limit *Element (ft^2) $(\mu g/ft^2)$ Lab Sample ID Lab Notes (μg) (μg) 0.50 < 0.50 < 0.50 Ag As 0.50 < 0.50 < 0.50 122019-MetW-2nd floor column H14 103-09 0.75 1.0 1.0 Ba 1 Cd 0.050 < 0.050 < 0.050 0.25 0.27 0.27 Pb 71931197IPW_ Se 1.3 < 1.3 < 1.3 < 0.50 < 0.50 0.50 Ag 0.50 < 0.50 < 0.50 As 122019-MetW-2nd floor column 103-10 D15 0.75 1.6 Ba 1.6 1 Cd 0.050 < 0.050 < 0.050 Pb 0.25 0.35 0.35 71931197IPW 10 < 1.3 < 1.3 Se 1.3 0.95 0.95 0.50 Ag 0.50 0.79 0.79 As 2nd floor column 122019-MetW-103-11 G5 Ba 0.75 4.3 4.3 Cd 0.050 0.11 0.11 0.25 0.54 0.54 Pb 71931197IPW 11 1.3 1.3 1.3 Se 0.50 < 0.50 < 0.50 Ag 0.50 < 0.50 < 0.50 As 122019-MetW- $2^{nd} \; floor \; column$

Melissa Ferrell	(b) (6)
Analyst	Lab Director

Ba

Cd

Pb

Se

B12

103-12

71931197IPW 12

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4.8

0.25

3.3

< 1.3

4.8

0.25

3.3

< 1.3

0.75

0.050

0.25

1.3

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





12/12/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71931197

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Project:**North Kansas City, MO 64117

Page: 4 of 6

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	(μg/ft ²)
			Ag	0.50	< 0.50	< 0.51
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.51
103-13	B21	0.972	Ba	0.75	0.99	1.0
		0.972	Cd	0.050	0.69	0.71
71931197IPW_			Pb	0.25	2.5	2.6
13			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.50
103-14	C35	1	Ba	0.75	0.96	0.96
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	0.88	0.88
14			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.50
103-15	D37	1	Ba	0.75	0.98	0.98
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	< 0.25	< 0.25
15			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.50
103-16	H33	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	< 0.25	< 0.25
16			Se	1.3	< 1.3	< 1.3

Melissa Ferrell	(b) (6)
Analyst	Lab Director

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^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. 71931197 Attn: Justin Arnold Lab Order ID: **Date Received:** 12/12/2019

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 12/20/2019 **Date Reported:** 5 of 6 **Project:** 919103 Page:

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft ²)	*Element	Limit (µg)	Concentration (μg)	(μg/ft ²)
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 nd floor column		As	0.50	< 0.50	< 0.50
103-17	H37	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	< 0.25	< 0.25
17			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-18	H33	1	Ba	0.75	1.1	1.1
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	0.70	0.70
18			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1st floor column		As	0.50	< 0.50	< 0.50
103-19	J34	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	< 0.25	< 0.25
19			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	1 st floor column		As	0.50	0.59	0.59
103-20	H37	1	Ba	0.75	6.4	6.4
		1	Cd	0.050	0.33	0.33
71931197IPW_			Pb	0.25	3.7	3.7
20			Se	1.3	< 1.3	< 1.3

(b) (6) Melissa Ferrell **Lab Director** Analyst

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

^{*} SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.





12/12/2019

Date Received:

NIOSH 7300/EPA SW-846 3050B

Client: OCCU-TEC Inc. Attn: Justin Arnold Lab Order ID: 71931197

2604 NE Industrial Drive, Suite 230

North Kansas City, MO 64117 **Project:**919103 **Date Reported:**12/20/2019 **6 of 6**

Sample ID	Description	Amoo	*Element	Reporting	Concentration	Concentration (µg/ft²)
Lab Sample ID	Lab Notes	Area (ft²)		Limit (µg)	Concentration (μg)	
122019-MetW- 103-21	1 st floor column F39	0.972	Ag	0.50	< 0.50	< 0.51
			As	0.50	< 0.50	< 0.51
			Ba	0.75	1.7	1.7
			Cd	0.050	< 0.050	< 0.051
71931197IPW_ 21			Pb	0.25	0.49	0.50
			Se	1.3	< 1.3	< 1.3
122019-MetW- 103-22	1 st floor column A36	1	Ag	0.50	< 0.50	< 0.50
			As	0.50	< 0.50	< 0.50
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
71931197IPW_			Pb	0.25	0.40	0.40
22			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

Lab Director

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Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 www.sailah.com lah@sailah com

Lab Use Only Lab Order ID: _ Client Code:	11931197

A-F-018 EXP: 2/4/2021

Rejected

	www.sanab.com	iabwsalia	b.com ==		
Company Con	tact Information			Industrial Hygiene Test Types	
Company: OCCU-	TEC Inc.	Contact: Justin Arnold		Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)	
Address: 2604 NF	Industrial Drive, Suite 230	Phone :816-810-3276		Silica as Cristobalite (XSC)*	
	as City, MO 64117		Fax :816-994-3478 With Respirable Dust Silica as Tridymite (XST)* With Respirable Dust		
North Kans	as City, 1010 041117	 		With Respirable Dust (XDT) Silica as Alpha Quartz, Cristobalite, Tridymite	
		Email :jarnold(@occutec.com	(XSA)* With Respirable Dust (XDA)	
Billing/Invoice	Information	Turn Around Times		Silica Bulk (XSI)*	
SAME		90 Min.	48 Hours	Bulk Phase ID/Whole Rock (XUK)	
Company:		3 Hours	72 Hours	Total Dust NIOSH Method 0500 (GTD)	
Contact:	·	6 Hours	96 Hours	Respirable Dust NIOSH Method 0600 (GRD)	
Address:		12 Hours	120 Hours	PCM NIOSH 7400-A Rules (PCM)	
		24 Hours	144 ⁺ Hours 🗌	B Rules (PCB) TWA (PTA)	
		^TATs not available	for certain test types	TEM NIOSH 7402 (Asbestos) (TNI)	
PO Number:				Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)	
Project Name/Number: 919103				Metals (NIOSH 7300) (Specify Metals Under Comments)	
				Other	
				* Modified NIOSH 7500/OSHA ID 142	
Sample ID #	Description/I	Location	Volume/A	rea Comments	
122019-MetW-103-01	Field BLANK			Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-02	Field BLANK	<		Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-03	1st floor Column	63	1 SF	Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-04	15+ floor Column	F4	1 SF	Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-05	15+ Floor Column	05	159	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-06	1st floor Column	Bie	1 SF	Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-07	1st floor Column	CIZ	ISF	Ag, As, Ba, Cd, Pb, Se	
122019-MetW-103-08	2nd floor Column	120	10" x 1411	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-09	2nd floor Column	H14	isf	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-10	2nd floor Column	D15	15F	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-11	Zno floor Column	65	15F	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-12	2nd Floor Column	BIZ	155	Ag, As, Ba, Cd, Pb, Se	
22019-MetW-103-13	2nd floor Column	1321	1011 × 1411	Ag, As, Ba, Cd, Pb, Se	
				Total # of Samples 22	
Relinquished by Date		e/Time	Received by	y Date/Time	
o) (6)					
	12/9/10	(b) (6)		12/12/0300	
		-	Accepte	7) -	



Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 www.sailab.com lab@sailab.com

***	www.sanab.com		
Sample ID #	Description/Location	Volume/Area	Comments
122019-MetW-103-14	2nd Floor Column C35	154	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-15	2nd floor Column 037	154	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-16	2nd floor Column H33	1 8F	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-17	Znu floor Column H37	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-18	1stfloor Column H 33	1 5F	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-19	152 floor Column J34	1.5€	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-20	IST Gloor Column H37	156	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-21	1st floor Column F39	10" × 14"	Ag, As, Ba, Cd, Pb, Se
122019-MetW-103-22	1st floor Column A 36	1 56	Ag, As, Ba, Cd, Pb, Se
	COMMA 11 24	3.	

Appendix D

Qualifications and Licenses

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Austin G. O'Byrne

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor Category of License

Issuance Date: 12/10/2018
Expiration Date: 12/10/2020

License Number: 181210-300005671





Randall W. Williams, MD, FACOG

Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102