

2604 NE Industrial Drive, Suite 230 North Kansas City, Missouri 64117 Telephone: 816.231.5580

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June 11, 2019

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 103E
4300 Goodfellow Boulevard
St. Louis, Missouri 63120
OCCU-TEC Project No. 919083

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 103E 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 May 30, 2019, a team of OCCU-TEC personnel including a Missouri licensed lead risk assessor conducted settled dust sampling for the presence of seven of the Resource Conservation and Recovery Act (RCRA) target metals (lead, arsenic, barium, cadmium, total chromium, 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 samples were collected using dedicated dust wipe cloths meeting ASTM standards. Each individually wrapped. Each sample was collected to orth "S" pattern over a measured sampling area. Then, the wipe 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 all the nine (9) samples contained concentrations of target metals above laboratory detection 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 reportable limit.

Analysis	Lowest	Highest
	Concentration	Concentration
	(μg/sq. ft.)	(µg/sq. ft.)
Silver	< 0.50	< 0.50
Arsenic	<2.0	< 2.0
Barium	0.78	27
Cadmium	0.055	1.60
Total Chromium	0.50	2.7
Lead	< 0.25	85.00
Selenium	<1.3	<1.3

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,



Justin Arnold, CIEC Environmental Scientist



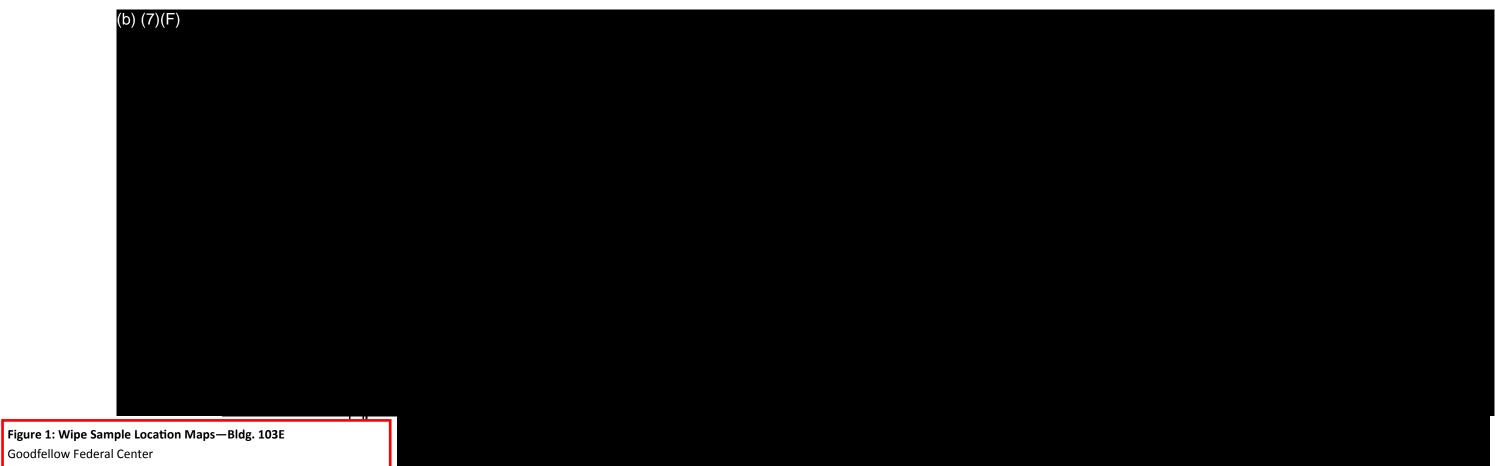


Kevin Heriford
Environmental Operations Manager (QA/QC)

#### Appendices:

- A Sample Summary Table
- B Laboratory Analysis Reports
- C Licenses





Goodfellow Federal Center

4300 Goodfellow Boulevard

St. Louis, Missouri

Project Number: 919083

## Appendix A Sample Summary Table

Sample Number	Location	Area Description	Analyte	Result	Units	Recommende
						Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	0.78	μg/ft²	
103E-W-01	1st Floor Column P 21	Floor	Cadmium	0.055	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	0.27	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	7.30	μg/ft²	
103E-W-02	1st Floor Column P 21	Phone Locker	Cadmium	0.200	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	1.30	μg/ft²	
103E-W-03	2nd Floor Column P 20	Floor	Cadmium	0.400	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	0.48	μg/ft <sup>2</sup>	** 200/40
			Selenium	< 1.30	μg/ft <sup>2</sup>	
			Silver	< 0.50	μg/ft <sup>2</sup>	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	1.80	μg/ft <sup>2</sup>	
103E-W-04	2nd Floor Column P 20	Top of Cabinet	Cadmium	1.600	μg/ft²	** 31
		.,	Chromium	0.63	μg/ft²	
			Lead	1.40	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft <sup>2</sup>	
			Silver	< 0.50	μg/ft <sup>2</sup>	* 139/9.3
			Arsenic	< 2.00	μg/ft <sup>2</sup>	** 62
			Barium	27.00	μg/ft <sup>2</sup>	
103E-W-05	1st Floor Column L 28	floor	Cadmium	0.370	μg/ft <sup>2</sup>	** 31
			Chromium	2.70	μg/ft²	
			Lead	85.00	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft <sup>2</sup>	* 139/9.3
			Arsenic	< 2.00	μg/ft <sup>2</sup>	** 62
			Barium	11.00	μg/ft <sup>2</sup>	02
103E-W-06	1st Floor Column L 27	floor	Cadmium	0.300		** 31
TO2F-44-00	13t Floor Column L 27	11001	Chromium	1.60	μg/ft²	31
				+	μg/ft²	** 200/10
			Lead	6.20	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft <sup>2</sup>	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 2.00	μg/ft²	** 62
			Barium	1.90	μg/ft²	
103E-W-07	2nd Floor Column N 28	Floor	Cadmium	0.140	μg/ft²	** 31
			Chromium	< 0.50	μg/ft²	
			Lead	< 0.25	μg/ft²	** 200/40
			Selenium	< 1.30	μg/ft²	

Sample Number	Location	Area Description	Analyte	Res	ult (	Units	Recommended Limits
			Silver	< 0	.50 բ	μg/ft²	* 139/9.3
			Arsenic	< 2	.00 լ	μg/ft²	** 62
			Barium	5	.50 բ	μg/ft²	
103E-W-08	2nd Floor Column N 28	Window Sill	Cadmium	0.	710 լ	μg/ft²	** 31
			Chromium	0	.50 բ	μg/ft²	
			Lead	2	.70 µ	μg/ft²	** 200/40
			Selenium	< 1	.30 կ	μg/ft²	
			Silver	< 0	.50 բ	μg/ft²	* 139/9.3
			Arsenic	< 2	.00 կ	μg/ft²	** 62
			Barium	< 0	.75 µ	μg/ft²	
103E-W-09	Field Blank		Cadmium	< 0.	050 լ	μg/ft²	** 31
			Chromium	< 0	.50 բ	μg/ft²	
			Lead	< 0	.25 լ	μg/ft²	** 200/40
			Selenium	< 1	.30 µ	μg/ft²	

<sup>\*</sup> 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

<sup>\*\*</sup> 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 B

Laboratory Analytical Reports



#### Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Riverside, MO 64150 Project: 919083.001 GFC Attn: Justin Arnold

Lab Order ID:

71914627

Date Received: Date Reported:

05/31/2019 06/10/2019

Page:

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Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft <sup>2</sup> )	*Element	Limit (µg)	Concentration (μg)	(μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-01	1 <sup>st</sup> Floor – P21 – Floor		Ba	0.75	0.78	0.78
		1	Cd	0.050	0.055	0.055
			Cr	0.50	< 0.50	< 0.50
71914627IPW_1			Pb	0.25	0.27	0.27
/191402/IF W_1			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-02	1 <sup>st</sup> Floor – P21 – Phone Locker		Ba	0.75	7.3	7.3
		1	Cd	0.050	0.20	0.20
			Cr	0.50	< 0.50	< 0.50
71914627IPW_2			Pb	0.25	< 0.25	< 0.25
/191402/IPW_2			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-03	2 <sup>nd</sup> Floor – P20 - Floor		Ba	0.75	1.3	1.3
		1	Cd	0.050	0.40	0.40
			Cr	0.50	< 0.50	< 0.50
71014627IDW 2			Pb	0.25	0.48	0.48
71914627IPW_3			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

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.

<sup>\*</sup> SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



#### Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)



NIOSH 7300/EPA SW-846 3050B

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

Riverside, MO 64150 Project: 919083.001 GFC Attn: Justin Arnold

Lab Order ID:

71914627 05/31/2019

Date Received: Date Reported:

05/31/2019 06/10/2019

Page: 2 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft <sup>2</sup> )	*Element	Limit (µg)	(μg)	(μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	< 0.50
	2 <sup>nd</sup> Floor – P20		As	2.0	< 2.0	< 2.0
103E-W-04	– Top of		Ba	0.75	1.8	1.8
	Cabinet	1	Cd	0.050	1.6	1.6
			Cr	0.50	0.63	0.63
71914627IPW_4			Pb	0.25	1.4	1.4
/191402/IPW_4			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-05	1 <sup>st</sup> Floor – L28 - Floor	1	Ba	0.75	27	27
			Cd	0.050	0.37	0.37
			Cr	0.50	2.7	2.7
71914627IPW_5			Pb	0.25	85	85
71914027IPW_3			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-06	1 <sup>st</sup> Floor – L27 - Floor		Ba	0.75	11	11
		1	Cd	0.050	0.30	0.30
			Cr	0.50	1.6	1.6
71914627IPW_6			Pb	0.25	6.2	6.2
/191402/IF W_0			Se	1.3	< 1.3	< 1.3

	(D) (O)
Melissa Ferrell	
Analyst	Lab Director

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NIOSH 7300/EPA SW-846 3050B

Client: Occu-Tec, Inc.

100 NW Business Park Ln.

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Page:

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Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	(ft <sup>2</sup> )	*Element	Limit (µg)	Concentration (μg)	(μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
103E-W-07	2nd Floor – N28 - Floor		Ba	0.75	1.9	1.9
		1	Cd	0.050	0.14	0.14
			Cr	0.50	< 0.50	< 0.50
71914627IPW_7			Pb	0.25	< 0.25	< 0.25
719140271F W_7			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
	2nd Floor –		As	2.0	< 2.0	< 2.0
103E-W-08	N28 – Window		Ba	0.75	5.5	5.5
	Sill	0.993	Cd	0.050	0.71	0.71
			Cr	0.50	0.50	0.50
71914627IPW_8			Pb	0.25	2.7	2.7
/191402/IPW_8			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	
			As	2.0	< 2.0	
103E-W-09	Field Blank		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
			Cr	0.50	< 0.50	
71914627IPW_9			Pb	0.25	< 0.25	
/191402/IF W_9			Se	1.3	< 1.3	

Melissa Ferrell	(D) (G)
Analyst	Lab Director

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<sup>\*</sup> SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.



#### 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

Lab Use Only Lab Order ID: 719 4627 Client Code:
Chefit Code.

Company Con	tact Information			Industrial Hygiene Test Types
Company: OCCU-	-TEC Inc.	Contact: Justin A	Arnold	Silica as Alpha Quartz (XSZ)*  With Respirable Dust (XDZ)
Address: 2604 NE	Industrial Drive, Suite 230	Phone □:816-8	10-3276	Silica as Cristobalite (XSC)*  With Respirable Dust (XDC)
	as City, MO 64117	Fax □:816-994	-	Silica as Tridymite (XST)*
North Kans	bas City, MO 04117			With Respirable Dust (XDT)  Silica as Alpha Quartz, Cristobalite, Tridymite
		Email :jarnold@	occutec.com	(XSA)* Uith Respirable Dust (XDA)
Billing/Invoice	Information	Turn Arou	nd 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 fo	or certain test types	TEM NIOSH 7402 (Asbestos) (TNI)
PO Number:				Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)
Project Name/Nu	umber:919083.001 GFC			Metals (NIOSH 7300) (Specify Metals Under Comments)
				Other 6010 C
				* Modified NIOSH 7500/OSHA ID 142
Sample ID #	Description/I	ocation	Volume/A	rea   Comments
Sample ID #	Description/I	ocation	Volume/A	rea Comments Ag, As, Ba, Cd, Cr, Pb, Se
Sample ID #	1st floor - PZI	Location - floor	Volume/A	
•	15t floor - PZ1 -	CI	15F	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01	15 Floor - PZ1 15 floor - PZ1 - 24 floor - PZO	- floor	15F	Ag, As, Ba, Cd, Cr, Pb, Se Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01	15t floor - PZ1 -	floor flocke	15F 15F 15F	Ag, As, Ba, Cd, Cr, Pb, Se Ag, As, Ba, Cd, Cr, Pb, Se Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03	15t floor - PZI 15t floor - PZI - 2nd floor - PZO 2nd floor - PZO 15t floor - LZ8 -	- floor - phone locker - floor	15F 15F 15F	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03	15 Floor - P21 15 Floor - P21 24 Floor - P20 2nd Floor - P20 15 Floor - L28 - 15 Floor - L27	- floor - phone locke - floor - Top of Casin Floor	15F 15F 15F 15F 15F	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05	15t floor - P21 15t floor - P21 24 floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27 - 2nd floor - N28	- floor - phone locke - floor - Top of Casin Floor	15f 15f 15f 15f 15f 15f	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-09	15t floor - P21 15t floor - P21 2nd floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27	- floor phone locker - floor - Topof Cabin floor - Floor	15F 15F 15F 15F 15F	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-09	15t floor - P21 15t floor - P21 24 floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27 - 2nd floor - N28	- floor - phone locker - floor - Top of Casin Floor - Floor - Floor - W. Now Sill	15f 15f 15f 15f 15f 15f 15f 18	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-07 103E-W-07	15t floor - P21 15t floor - P21 2nd floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27 - 2nd floor - N28 2nd floor - N28	- floor phone locker - floor - Topof Cabin floor - Floor	15f 15f 15f 15f 15f 15f 15f 18	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-07 103E-W-07	15t floor - P21 15t floor - P21 2nd floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27 - 2nd floor - N28 2nd floor - N28	- floor - phone locker - floor - Top of Casin Floor - Floor - Floor - W. Now Sill	15f 15f 15f 15f 15f 15f 15f 18	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-07 103E-W-07	15t floor - P21 15t floor - P21 2nd floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L27 - 2nd floor - N28 2nd floor - N28	- floor - phone locker - floor - Top of Casin Floor - Floor - Floor - W. Now Sill	15f 15f 15f 15f 15f 15f 15f 18	Ag, As, Ba, Cd, Cr, Pb, Se
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-07 103E-W-07 103E-W-08	15t floor - P21 15t floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L28 - 2nd floor - L27 - 2nd floor - N28 2nd floor - N28 Field Blank	- floor - floor - Top of Cabin Floor - Floor - W. Now Sill Rojec	15f 15f 15f 15f 15f 15f 15f 11"x13"	Ag, As, Ba, Cd, Cr, Pb, Se Total # of Samples
103E - W-01 103E - W-02 103E - W-03 103E - W-04 103E - W-05 103E - W-07 103E - W-08 103E - W-09	15t floor - P21 15t floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L28 - 2nd floor - L27 - 2nd floor - N28 2nd floor - N28 Field Blank	- floor - floor - Topof Casin Floor - Floor - W. Now Sill Rejoc	15f 15f 15f 15f 15f 15f 15f 18	Ag, As, Ba, Cd, Cr, Pb, Se Total # of Samples
103E-W-01 103E-W-02 103E-W-03 103E-W-04 103E-W-05 103E-W-09 103E-W-09	15t floor - P21 15t floor - P20 2nd floor - P20 15t floor - L28 - 1st floor - L28 - 2nd floor - L27 - 2nd floor - N28 2nd floor - N28 Field Blank	- floor - floor - Top of Cabin Floor - Floor - W. Now Sill Rojec	15f 15f 15f 15f 15f 15f 15f 11"x13"	Ag, As, Ba, Cd, Cr, Pb, Se Total # of Samples

# Appendix C Qualifications and Licenses

# STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

# **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# Justin E. Arnold

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

6/11/2018 Issuance Date: 6/11/2020 **Expiration Date:** 

120611-300003622 License Number:





Randall W. Williams, MD, FACOG Director Department of Health and Senior Services