OCCU-TEC

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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 105
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 105 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 29, 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 of the building. The purpose of this testing was to further characterize the presence and concentration of target metals in areas of the buildings routinely accessed by tenants.

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 tenant-occupied areas of the building.

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 tenants during normal work activities. 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 [redacted] cloth was pre-moistened and individually wrapped. Each samp[redacted]in a back and forth "S" pattern over a measured sampling area[redacted]ed 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 16 of the 33 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 Concentration (µg/sq. ft.)	Highest Concentration (µg/sq. ft.)
Silver	<0.47	<0.51
Arsenic	<1.9	<2.0
Barium	<0.7	5.6
Cadmium	<0.047	2.9
Total Chromium	<0.47	1.9
Lead	<0.23	5.0
Selenium	<1.2	<1.3

The samples collected did not contain target metals above 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)

Kevin Heriford
Environmental Operations Manager (QA/QC)

Appendices:

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

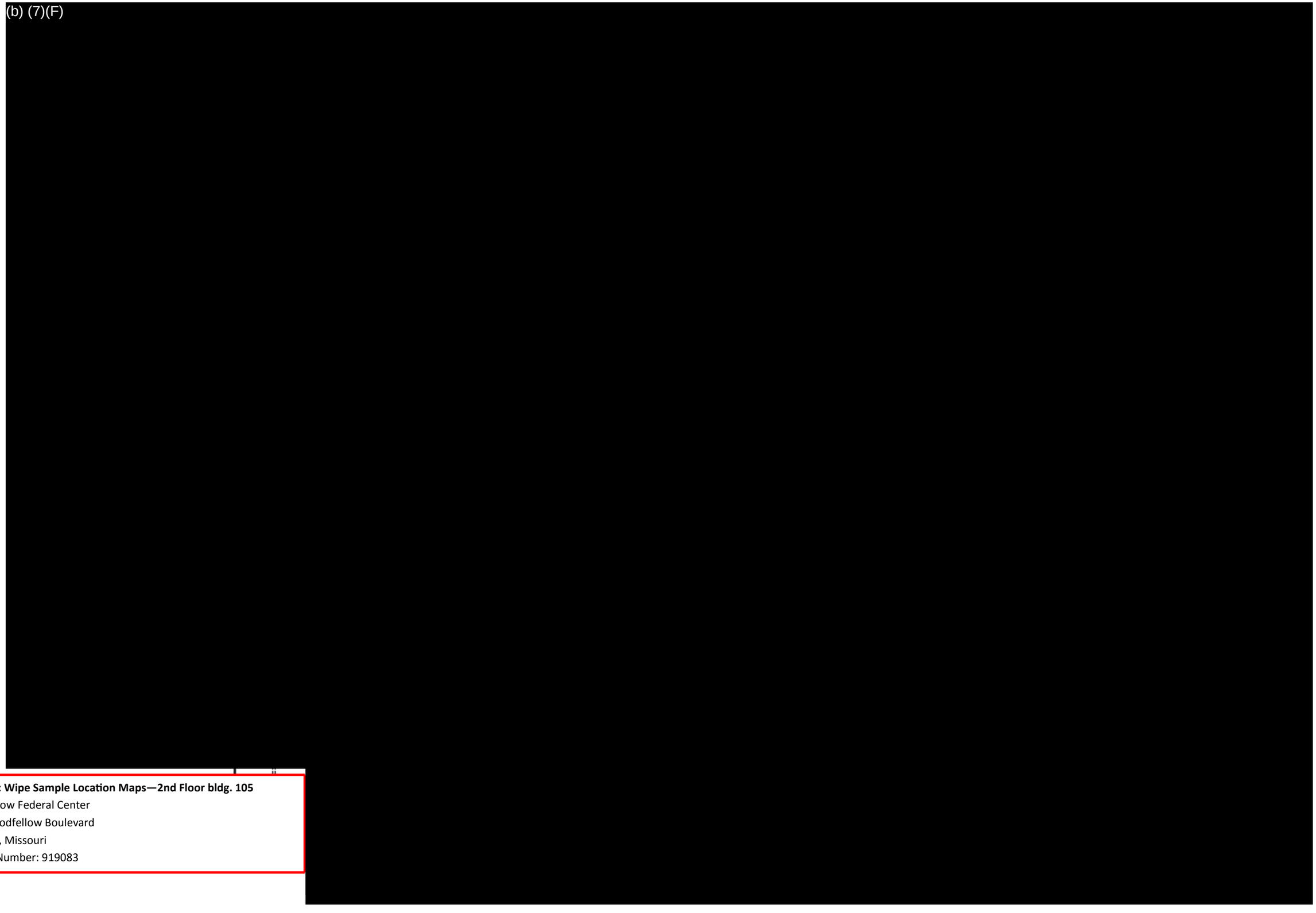

Figure 2: Wipe Sample Location Maps—2nd Floor bldg. 105
Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri
Project Number: 919083

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Figure 1: Wipe Sample Location Maps—1st Floor bldg. 105
Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri
Project Number: 919083

Appendix A

Sample Summary Table

Goodfellow Federal Center - Building # 105 - Wipe Sample Data						
Sample Number	**Location**	**Area Description**	**Analyte**	**Result**	**Units**	**Recommended Limits**
105-W-01	Lower Level H52	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.20	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-02	Lower Level E51	Table	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	3.00	µg/ft^2	
			Cadmium	1.30	µg/ft^2	** 31
			Chromium	1.90	µg/ft^2	
			Lead	1.40	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-03	Lower Level C47	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.30	µg/ft^2	
			Cadmium	0.09	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	0.36	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-04	Lower Level F39	Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.70	µg/ft^2	
			Cadmium	0.17	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	5.00	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-05	Lower Level J36	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	0.87	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-06	Lower Level D29	Desk Cabinet	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
105-W-07	Lower Level G25	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.00	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	0.59	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-08	Lower Level E25	Cabinet	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-09	Lower Level B21	Floor/Ramp	Silver	< 0.53	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	0.30	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-10	Lower Level J20	Window Sill	Silver	< 0.47	µg/ft^2	* 139/9.3
			Arsenic	< 1.90	µg/ft^2	** 62
			Barium	< 0.70	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.47	µg/ft^2	
			Lead	< 0.23	µg/ft^2	** 200/40
			Selenium	< 1.20	µg/ft^2	
105-W-11	Lower Level D17	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-12	Lower Level	AC Unit	Silver	< 0.51	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.40	µg/ft^2	
			Cadmium	0.055	µg/ft^2	** 31
			Chromium	< 0.51	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
105-W-13	Lower Level B17	Stairwell Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	0.49	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-14	Lower Level F11	Desk	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-15	Lower Level H1	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-16	Upper Level G1	Window Sill	Silver	< 0.47	µg/ft^2	* 139/9.3
			Arsenic	< 1.90	µg/ft^2	** 62
			Barium	< 0.70	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.470	µg/ft^2	
			Lead	0.49	µg/ft^2	** 200/40
			Selenium	< 1.20	µg/ft^2	
105-W-17	Upper Level F3	Stair Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-18	Upper Level D4	Desk	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
105-W-19	Upper Level B10	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	0.26	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-20	Upper Level C12	Desk Cabinet	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	1.70	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-21	Upper Level G14	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-22	Upper Level H18	File Cabinet	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	5.60	µg/ft^2	
			Cadmium	0.13	µg/ft^2	** 31
			Chromium	0.59	µg/ft^2	
			Lead	1.40	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-23	Upper Level G25	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-24	Upper Level E26	Top of Fridge	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	0.78	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
105-W-25	Upper Level A30	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-26	Upper Level B32	Window Sill	Silver	< 0.5	µg/ft^2	* 139/9.3
			Arsenic	< 1.9	µg/ft^2	** 62
			Barium	< 0.7	µg/ft^2	
			Cadmium	< 0.047	µg/ft^2	** 31
			Chromium	< 0.47	µg/ft^2	
			Lead	< 0.23	µg/ft^2	** 200/40
			Selenium	< 1.20	µg/ft^2	
105-W-27	Upper Level E38	Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-28	Upper Level E42	Room 333 - Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	5.30	µg/ft^2	
			Cadmium	2.80	µg/ft^2	** 31
			Chromium	0.84	µg/ft^2	
			Lead	3.10	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-29	Upper Level H43	Hallway Floor	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	< 0.05	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	
105-W-30	Upper Level E50	Room 340 Shelf	Silver	< 0.50	µg/ft^2	* 139/9.3
			Arsenic	< 2.00	µg/ft^2	** 62
			Barium	< 0.75	µg/ft^2	
			Cadmium	0.18	µg/ft^2	** 31
			Chromium	< 0.50	µg/ft^2	
			Lead	< 0.25	µg/ft^2	** 200/40
			Selenium	< 1.30	µg/ft^2	

Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
105-W-31	FB	NA	Silver	< 0.50	µg	* 139/9.3
			Arsenic	< 2.00	µg	** 62
			Barium	< 0.75	µg	
			Cadmium	< 0.05	µg	** 31
			Chromium	< 0.50	µg	
			Lead	< 0.25	µg	** 200/40
			Selenium	< 1.30	µg	
105-W-32	FB	NA	Silver	< 0.50	µg	* 139/9.3
			Arsenic	< 2.00	µg	** 62
			Barium	< 0.75	µg	
			Cadmium	< 0.05	µg	** 31
			Chromium	< 0.50	µg	
			Lead	< 0.25	µg	** 200/40
			Selenium	< 1.30	µg	
105-W-33	FB	NA	Silver	< 0.50	µg	* 139/9.3
			Arsenic	< 2.00	µg	** 62
			Barium	< 0.75	µg	
			Cadmium	< 0.05	µg	** 31
			Chromium	< 0.50	µg	
			Lead	< 0.25	µg	** 200/40
			Selenium	< 1.30	µg	

* 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 B

Laboratory Analytical Reports

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**1 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-01	LL H52 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.2	1.2
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_1			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-02	LL E51 - table	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	3.0	3.0
			Cd	0.050	1.3	1.3
			Cr	0.50	1.9	1.9
71914376IPW_2			Pb	0.25	1.4	1.4
			Se	1.3	< 1.3	< 1.3
105-W-03	LL C47 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.3	1.3
			Cd	0.050	0.087	0.087
			Cr	0.50	< 0.50	< 0.50
71914376IPW_3			Pb	0.25	0.36	0.36
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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

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.

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**2 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-04	LL F39 - shelf	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.7	1.7
			Cd	0.050	0.17	0.17
			Cr	0.50	< 0.50	< 0.50
71914376IPW_4			Pb	0.25	5.0	5.0
			Se	1.3	< 1.3	< 1.3
105-W-05	LL J36 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	0.87	0.87
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_5			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-06	LL D29 – desk cabinet	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_6			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

Lab Director

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**3 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-07	LL G25 – floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.0	1.0
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_7			Pb	0.25	0.59	0.59
			Se	1.3	< 1.3	< 1.3
105-W-08	LL E25 – cabinet	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_8			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-09	LL B21 – floor/ramp	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_9			Pb	0.25	0.30	0.30
			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6) [redacted]

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NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**4 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-10	LL J20 – window sill	1.069	Ag	0.50	< 0.50	< 0.47
			As	2.0	< 2.0	< 1.9
			Ba	0.75	< 0.75	< 0.70
			Cd	0.050	< 0.050	< 0.047
			Cr	0.50	< 0.50	< 0.47
71914376IPW_10			Pb	0.25	< 0.25	< 0.23
			Se	1.3	< 1.3	< 1.2
105-W-11	LL D17 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_11			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-12	LL – AC unit	0.990	Ag	0.50	< 0.50	< 0.51
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.4	1.4
			Cd	0.050	0.054	0.055
			Cr	0.50	< 0.50	< 0.51
71914376IPW_12			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**5 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-13	LL B17 – stairwell floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_13			Pb	0.25	0.49	0.49
			Se	1.3	< 1.3	< 1.3
105-W-14	LL F11 - desk	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_14			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-15	LL H1 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_15			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**6 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-16	UL G1 – window sill	1.069	Ag	0.50	< 0.50	< 0.47
			As	2.0	< 2.0	< 1.9
			Ba	0.75	< 0.75	< 0.70
			Cd	0.050	< 0.050	< 0.047
			Cr	0.50	< 0.50	< 0.47
71914376IPW_16			Pb	0.25	0.52	0.49
			Se	1.3	< 1.3	< 1.2
105-W-17	UL F3 – stair floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_17			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-18	UL D4 - desk	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_18			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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

NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**7 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-19	UL B10 – floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_19			Pb	0.25	0.26	0.26
			Se	1.3	< 1.3	< 1.3
105-W-20	UL C12 – desk cabinet	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	1.7	1.7
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_20			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-21	UL G14 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_21			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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NIOSH 7300/EPA SW-846 3050B

Client:	**Occu-Tec, Inc.**	**Attn:**	**Justin Arnold**	**Lab Order ID:**	**71914376**
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	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**8 of 11**

Sample ID *Lab Sample ID*	Description *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-22	UL H18 – file cabinet	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	5.6	5.6
			Cd	0.050	0.13	0.13
			Cr	0.50	0.59	0.59
71914376IPW_22			Pb	0.25	1.4	1.4
			Se	1.3	< 1.3	< 1.3
105-W-23	UL G25 – floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_23			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-24	UL E26 – top of fridge	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	0.78	0.78
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_24			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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

NIOSH 7300/EPA SW-846 3050B

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	100 NW Business Park Ln.			**Date Received:**	**05/30/2019**
	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**9 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-25	UL A30 – floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_25			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-26	UL B32 – window sill	1.069	Ag	0.50	< 0.50	< 0.47
			As	2.0	< 2.0	< 1.9
			Ba	0.75	< 0.75	< 0.70
			Cd	0.050	< 0.050	< 0.047
			Cr	0.50	< 0.50	< 0.47
71914376IPW_26			Pb	0.25	< 0.25	< 0.23
			Se	1.3	< 1.3	< 1.2
105-W-27	UL E38 - floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_27			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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NIOSH 7300/EPA SW-846 3050B

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	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**10 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-28	UL E42/room 333 - shelf	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	5.3	5.3
			Cd	0.050	2.8	2.8
			Cr	0.50	0.84	0.84
71914376IPW_28			Pb	0.25	3.1	3.1
			Se	1.3	< 1.3	< 1.3
105-W-29	UL H43/hallway – floor	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	< 0.050	< 0.050
			Cr	0.50	< 0.50	< 0.50
71914376IPW_29			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3
105-W-30	UL E50/room 340 - shelf	1	Ag	0.50	< 0.50	< 0.50
			As	2.0	< 2.0	< 2.0
			Ba	0.75	< 0.75	< 0.75
			Cd	0.050	0.18	0.18
			Cr	0.50	< 0.50	< 0.50
71914376IPW_30			Pb	0.25	< 0.25	< 0.25
			Se	1.3	< 1.3	< 1.3

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NIOSH 7300/EPA SW-846 3050B

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	Riverside, MO 64150			**Date Reported:**	**06/06/2019**
Project:	**919083.001 GFC**			**Page:**	**11 of 11**

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Area (ft^2)	*Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/ft^2)
105-W-31	FB	-	Ag	0.50	< 0.50	--
			As	2.0	< 2.0	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
			Cr	0.50	< 0.50	--
71914376IPW_31			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--
105-W-32	FB	-	Ag	0.50	< 0.50	--
			As	2.0	< 2.0	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
			Cr	0.50	< 0.50	--
71914376IPW_32			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--
105-W-33	FB	-	Ag	0.50	< 0.50	--
			As	2.0	< 2.0	--
			Ba	0.75	< 0.75	--
			Cd	0.050	< 0.050	--
			Cr	0.50	< 0.50	--
71914376IPW_33			Pb	0.25	< 0.25	--
			Se	1.3	< 1.3	--

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www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 7191437G
Client Code: _____

Company Contact Information	
Company: OCCU-TEC Inc.	Contact: Justin Arnold
Address: 2604 NE Industrial Drive, Suite 230	Phone ☐: 816-810-3276
North Kansas City, MO 64117	Fax ☐: 816-994-3478
	Email :jarnold@occutec.com

Billing/Invoice Information	Turn Around Times^	
SAME ■	90 Min. ☐	48 Hours ☐
Company:	3 Hours ☐	72 Hours ☐
Contact:	6 Hours ☐	96 Hours ☐
Address:	12 Hours ☐	120 Hours ■
	24 Hours ☐	144+ Hours ☐
	^TATs not available for certain test types	
PO Number:		
Project Name/Number: 919083.001 GFC		

Industrial Hygiene Test Types	
Silica as Alpha Quartz (XSZ)* ☐ With Respirable Dust (XDZ) ☐	
Silica as Cristobalite (XSC)* ☐ With Respirable Dust (XDC) ☐	
Silica as Tridymite (XST)* ☐ With Respirable Dust (XDT) ☐	
Silica as Alpha Quartz, Cristobalite, Tridymite (XSA)* ☐ With Respirable Dust (XDA) ☐	
Silica Bulk (XSI)*	☐
Bulk Phase ID/Whole Rock (XUK)	☐
Total Dust NIOSH Method 0500 (GTD)	☐
Respirable Dust NIOSH Method 0600 (GRD)	☐
PCM NIOSH 7400-A Rules (PCM)	☐
B Rules (PCB) ☐ TWA (PTA) ☐	
TEM NIOSH 7402 (Asbestos) (TNI)	☐
Hexavalent Chromium (OSHA ID-215) (Note if from spray paint operations)	☐
Metals (NIOSH 7300) (Specify Metals Under Comments)	☐
Other 6010 C	☒
* *Modified NIOSH 7500/OSHA ID 142*	

Sample ID #	Description/Location	Volume/Area	Comments
105W-01	LL H52- floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-02	LL E51- table	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-03	LL C47 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-04	LL F39 - shelf	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-05	LL J36 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-06	LL D29 - desk cabinet	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-07	LL G25 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-08	LL E25 - Cabinet	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-09	LL B21 - floor/ramp	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-10	LL J20 - window sill	11" x 14"	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-11	LL D17 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-12	LL [redacted] - [redacted] AC unit	9.5" x 15"	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-13	LL B17 - stairwell floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
(b) (6)	5/29/19 16:00	(b) (6)	5/30 10:30A

Scientific Analytical Institute, Inc.
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: 11914376
Client Code: ______________

Sample ID #	Description/Location	Volume/Area	Comments
105-W-14	LL F11 - desk	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-15	LL H1 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-16	UL G1 - window sill	11" x 14"	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-17	UL F3 - stair floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-18	UL D4 - desk	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-19	UL B10 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-20	UL C12 - desk cabinet	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-21	UL G14 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-22	UL H18 - file cabinet	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-23	UL G25 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-24	UL E26 - top of fridge	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-25	UL A30 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-26	UL B32 - window sill	11" x 14"	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-27	UL E38 - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-28	UL E42/room 333 - shelf	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-29	UL H43/hallway - floor	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-30	UL E50/room 340 - shelf	1 sf	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-31	FB	N/A	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-32	FB	N/A	Ag, As, Ba, Cd, Cr, Pb, Se
105-W-33	FB	N/A	Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pb, Se
			Ag, As, Ba, Cd, Cr, Pesp,e

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

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

Issuance Date:	**6/11/2018**
Expiration Date:	**6/11/2020**
License Number:	**120611-300003622**

(b) (6) [redacted]

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

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