

2604 NE Industrial Drive, Suite 230 North Kansas City, Missouri 64117 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

January 14, 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 104 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 104 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<sup>th</sup>, 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 prefabricated, disposable templates. The dust wipe samples were collected using dedicated dust wipe cloths meeting ASTM standards. Each dust wipe cloth was pre-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 nine (9) of the ten (10) 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	1.1
Arsenic	< 0.50	1.2
Barium	< 0.75	60.0
Cadmium	< 0.050	4.4
Lead	< 0.25	68
Selenium	<1.3	<1.3

One (1) of the samples collected contained 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,





Kevin Heriford Environmental Operations Manager (QA/QC)

Appendices:

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

### **Appendix A** Sample Location Diagrams

#### EXEMPTION (b)(7)(F)

Figure 1: Wipe Sample Location Maps—1st Floor bldg. 104 Goodfellow Federal Center 4300 Goodfellow Boulevard St. Louis, Missouri Project Number: 919103

#### EXEMPTION (b)(7)(F)

Figure 2: Wipe Sample Location Maps—2nd Floor bldg. 104 Goodfellow Federal Center 4300 Goodfellow Boulevard St. Louis, Missouri Project Number: 919103

### **Appendix B** Sample Summary Table

	Goodfellow Federal	Center - Building # 10	4 - Wipe Sam	ple Data		
Sample Number	Location	Area Description	Analyte	Result	Units	Recommended Limits
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	µg/ft <sup>2</sup>	** 62
122019-MetW-104-01	Field Blank		Barium	< 0.75	μg/ft²	
122019-1010104-01			Cadmium	< 0.05	μg/ft <sup>2</sup>	** 31
			Lead	< 0.25	μg/ft <sup>2</sup>	** 200/40
			Selenium	< 1.30	μg/ft²	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft <sup>2</sup>	** 62
122019-MetW-104-02	2nd floor column	Window Sill	Barium	1.10	μg/ft <sup>2</sup>	
122013 WICOV 104 02	J51	WINGOW SIII	Cadmium	< 0.05	μg/ft <sup>2</sup>	** 31
			Lead	0.72	μg/ft²	** 200/40
			Selenium	< 1.30	$\mu$ g/ft <sup>2</sup>	
			Silver	< 0.50	μg/ft²	* 139/9.3
			Arsenic	< 0.50	μg/ft <sup>2</sup>	** 62
422240 14 104 424 424	2nd floor column	Table Top	Barium	< 0.75	μg/ft <sup>2</sup>	
122019-MetW-104-03	E43		Cadmium	< 0.05	µg/ft <sup>2</sup>	** 31
			Lead	< 0.25	μg/ft <sup>2</sup>	** 200/40
			Selenium	< 1.30	μg/ft²	··
			Silver	< 0.50	μg/ft <sup>2</sup>	* 139/9.3
	2nd floor column D36	Counter Top	Arsenic	< 0.50	$\mu g/ft^2$	** 62
			Barium	0.82	$\mu g/ft^2$	
122019-MetW-104-04			Cadmium	< 0.05	μg/ft <sup>2</sup>	** 31
			Lead	< 0.25	μg/ft <sup>2</sup>	** 200/40
			Selenium	< 1.30	$\mu g/ft^2$	
			Silver	< 0.50	$\mu g/ft^2$	* 139/9.3
			Arsenic	< 0.50	$\mu g/ft^2$	** 62
	2nd floor column		Barium	< 0.75	$\mu g/ft^2$	
122019-MetW-104-05	F36	Floor	Cadmium	< 0.05	$\mu g/ft^2$	** 31
			Lead	< 0.25	$\mu g/ft^2$	** 200/40
			Selenium	< 1.30	$\mu g/ft^2$	200710
			Silver	< 0.50	$\mu g/ft^2$	* 139/9.3
			Arsenic	< 0.50	$\mu g/ft^2$	** 62
	2nd floor column	Top of Vending		+		02
122019-MetW-104-06	H35	Machine	Barium Cadmium	7.50 0.088	$\mu g/ft^2$	** 31
	ССП	WICHTINE		+	$\mu g/ft^2$	
			Lead	1.10	$\mu g/ft^2$	** 200/40
			Selenium	< 1.30	$\mu g/ft^2$	
			Silver	< 0.50	$\mu g/ft^2$	* 139/9.3
			Arsenic	< 0.50	μg/ft <sup>2</sup>	** 62
122019-MetW-104-07	2nd floor column	Floor	Barium	< 0.75	μg/ft <sup>2</sup>	
	F30		Cadmium	< 0.05	μg/ft <sup>2</sup>	** 31
			Lead	< 0.25	μg/ft <sup>2</sup>	** 200/40
			Selenium	< 1.30	$\mu g/ft^2$	

Goodfellow Federal Center - Building # 104 - Wipe Sample Data									
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-104-08	2nd floor column	Top of Vending	Barium	3.60	μg/ft²				
122013 WELV 104 00	B20	Machine	Cadmium	0.10	μg/ft²	** 31			
			Lead	2.30	μg/ft <sup>2</sup>	** 200/40			
			Selenium	< 1.30	μg/ft²				
			Silver	< 0.50	μg/ft²	* 139/9.3			
	2nd floor column F3	Floor	Arsenic	< 0.50	μg/ft <sup>2</sup>	** 62			
122019-MetW-104-09			Barium	1.00	$\mu g/ft^2$				
122019-1016(00-104-09			Cadmium	< 0.05	$\mu g/ft^2$	** 31			
			Lead	< 0.25	μg/ft²	** 200/40			
			Selenium	< 1.30	$\mu g/ft^2$				
			Silver	< 0.50	µg/ft²	* 139/9.3			
		Desk	Arsenic	< 0.50	μg/ft²	** 62			
122019-MetW-104-10	1st floor column		Barium	26.00	μg/ft²				
122019-1018(00-104-10	H2		Cadmium	0.23	$\mu g/ft^2$	** 31			
			Lead	3.60	$\mu g/ft^2$	** 200/40			
			Selenium	< 1.30	$\mu g/ft^2$				
			Silver	1.10	μg/ft²	* 139/9.3			
			Arsenic	1.20	μg/ft²	** 62			
122019-MetW-104-11	1st floor column	Floor	Barium	60.00	μg/ft²				
122019-1016100-104-11	C7	FIUUI	Cadmium	4.40	μg/ft²	** 31			
			Lead	68.00	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 Results and Chain of Custody Documentation



#### 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:	71931189
	2604 NE Industrial Drive, Suite 230			Date Received:	12/12/2019
	North Kansas City, MO 64117			Date Reported:	12/20/2019
Project:	919103			Page:	1 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	Area (ft <sup>2</sup> )	*Element	Limit (µg)	concentration (μg)	(μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	
122019-MetW-	Field Blank		As	0.50	< 0.50	
104-01	FIEIG DIAIK		Ba	0.75	< 0.75	
		-	Cd	0.050	< 0.050	
71931183IPW_1			Pb	0.25	< 0.25	
/19311831F W_1			Se	1.3	< 1.3	
			Ag	0.50	< 0.50	< 0.51
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.51
104-02	J51	0.972	Ba	0.75	1.1	1.1
			Cd	0.050	< 0.050	< 0.051
71931183IPW_2			Pb	0.25	0.70	0.72
/19311851F W_2			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-03	E43	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931183IPW_3			Pb	0.25	< 0.25	< 0.25
/195110511 W_5			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-04	D36	1	Ba	0.75	0.82	0.82
		1	Cd	0.050	< 0.050	< 0.050
71931183IPW_4			Pb	0.25	< 0.25	< 0.25
/19511051FW_4			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6)	L

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.

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



#### 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:	71931189
	2604 NE Industrial Drive, Suite 230			Date Received:	12/12/2019
	North Kansas City, MO 64117			Date Reported:	12/20/2019
Project:	919103			Page:	2 of 3

Sample ID	Description	Area		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	Afea (ft <sup>2</sup> )	*Element	Limit (µg)	concentration (μg)	(μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-05	F36	1	Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931183IPW_5			Pb	0.25	< 0.25	< 0.25
/19311851Pw_3			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-06	H35	1	Ba	0.75	7.5	7.5
			Cd	0.050	0.088	0.088
71931183IPW_6			Pb	0.25	1.1	1.1
/19311831F w_0			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column F30	1	As	0.50	< 0.50	< 0.50
104-07			Ba	0.75	< 0.75	< 0.75
		1	Cd	0.050	< 0.050	< 0.050
71931183IPW_7			Pb	0.25	< 0.25	< 0.25
/195118511 W_/			Se	1.3	< 1.3	< 1.3
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-08	B20	1	Ba	0.75	3.6	3.6
		1	Cd	0.050	0.10	0.10
71931183IPW_8			Pb	0.25	2.3	2.3
/1931103IFW_8			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6	5)	

Lab Director

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Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



#### 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:	71931189
	2604 NE Industrial Drive, Suite 230			Date Received:	12/12/2019
	North Kansas City, MO 64117			Date Reported:	12/20/2019
Project:	919103			Page:	3 of 3

Sample ID	Description	A mag		Reporting	Concentration	Concentration
Lab Sample ID	Lab Notes	Area (ft²)	*Element	Limit (µg)	Concentration (μg)	concentration (μg/ft <sup>2</sup> )
			Ag	0.50	< 0.50	< 0.50
122019-MetW-	2 <sup>nd</sup> floor column		As	0.50	< 0.50	< 0.50
104-09	F3	1	Ba	0.75	1.0	1.0
		1	Cd	0.050	< 0.050	< 0.050
71931183IPW_9			Pb	0.25	< 0.25	< 0.25
/19311831Pw_9			Se	1.3	< 1.3	< 1.3
	lst floor column H2	1	Ag	0.50	< 0.50	< 0.50
122019-MetW-			As	0.50	< 0.50	< 0.50
104-10			Ba	7.5	26	26
			1	Cd	0.050	0.23
71931183IPW_10			Pb	0.25	3.6	3.6
719311831FW_10			Se	1.3	< 1.3	< 1.3
			Ag	0.50	1.1	1.1
122019-MetW-	1st floor column		As	0.50	1.2	1.2
104-11	C7	1	Ba	15	60.	60.
		1	Cd	0.050	4.4	4.4
71931183IPW_11			Pb	5.0	68	68
/19311031Fw_11			Se	1.3	< 1.3	< 1.3

Melissa Ferrell

Analyst

(b) (6)	
TID	

Lab Director

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Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



# Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313

lab@sailab.com

Lab Use Only Lab Order ID:	71931189
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		

www.sailab.com

Billing/Invoice Information Turn Around Tim		
SAME	90 Min.	48 Hours
Company:	3 Hours	72 Hours
Contact:	6 Hours	96 Hours
Address:	12 Hours	120 Hours 🔳
	24 Hours	144 <sup>+</sup> Hours
	TATs not available	for certain test types
PO Number:		
Project Name/Number: 919103		

Industrial Hygiene Test Ty	pes	
Silica as Alpha Quartz (XSZ)*		
Silica as Cristobalite (XSC)*		
Silica as Tridymite (XST)* With Respirable Dust (XDT)		
Silica as Alpha Quartz, Cristobalite, Tridym (XSA)*  With Respirable Dust (XDA)		
Silica Bulk (XSI)*		
Bulk Phase ID/Whole Rock (XUK)		1
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)	×	CS
Other		
* Modified NIOSH 7500/OSHA ID 142	?	

Sample ID #	Description/Location	Volume/Area	Comments
122019-MetW-104-01	Field Blank	NA	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-02	2nd floor Column JSI	10"×14"	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-03	2nd floor (olumn F43	lsf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-04	2rd floor Column D36	1 SF	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-05		1 SF	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-06		1 st	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-07	Ind floor Column F30	1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-08		Ísf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-09		1 sf	Ag, As, Ba, Cd, Pb, Se
122019-MetW-104-10		1 5F	Ag, As, Ba, Cd, Pb, Se
	1st floor Column (7	158-	Ag, As, Ba, Cd, Pb, Se
		222-24-2	Ag, As, Ba, Cd, Pb, Se-
19			
L		· · · · · · · · · · · · · · · · · · ·	Total # of Samples [[

				Tota	I # of Samples <u>[[</u>
	Relinquished by	Date/Time		Received by	Date/Time
(b) (6)		12/9/18 16:00	(b) (6)		12/12 10>30an
				Accepted [/]	Pageof
				Rejected	

### **Appendix D** 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: Expiration Date: License Number: 6/11/2018 6/11/2020 120611-300003622

(b) (6)

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

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

## 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: Expiration Date: License Number: 12/10/2018 12/10/2020 181210-300005671

(b) (6)

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

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







Randall W. Williams, MD, FACOG Director

Michael L. Parson Governor

#### CONFIDENTIAL

December 10, 2018

Austin O'Byrne OCCU-TEC 100 Northwest Business Park Lane Riverside, MO 64150

Dear Mr. O'Byrne:

This letter concerns your recent application for a lead occupation license with the Missouri Department of Health and Senior Services' Lead Licensing Program. You scored 98% on the state exam, therefore your application for a Lead Risk Assessor license is now complete.

Enclosed please find your Lead Risk Assessor license certificate and photo identification badge. If you intend to perform any regulated lead-bearing substance activities, you must be employed by a Missouri licensed lead abatement contractor. Please have your identification badge with you at all times while conducting lead abatement activities.

Note the date your Lead Risk Assessor license expires. A renewal notice will be mailed to you approximately four months prior to the expiration date, and your renewal application will need to be completed and submitted 60 days prior to the expiration date.

A requirement of renewing your license will be attending a Lead Risk Assessor refresher class. A list of Missouri certified lead abatement training providers will be included with your renewal notice. Additional information on training and lead abatement in general is located at http://health.mo.gov/safety/leadlicensing/index.php.

Please contact the Lead Licensing Program at (573) 526-5873 if you have any questions concerning this letter or on lead abatement regulations in general.

Sincerely. (b) (6)

Angie DeBroeck Lead Licensing Program

AKD:tp

Enclosures

www.health.mo.gov

Healthy Missourians for life.

The Missouri Department of Health and Senior Services will be the leader in promoting, protecting and partnering for health.

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER: Services provided on a nondiscriminatory basis.



#### AIHA Laboratory Accreditation Programs, LLC

acknowledges that

#### Scientific Analytical Institute, Inc.

4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: 173190

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### LABORATORY ACCREDITATION PROGRAMS

- ✓ INDUSTRIAL HYGIENE
- ✓ ENVIRONMENTAL LEAD
- ✓ ENVIRONMENTAL MICROBIOLOGY
- **FOOD**
- **UNIQUE SCOPES**

Accreditation Expires: November 01, 2020 Accreditation Expires: November 01, 2020 Accreditation Expires: November 01, 2020 Accreditation Expires: Accreditation Expires: November 01, 2020

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

#### (b) (6)

Elizabeth Bair Chairperson, Analytical Accreditation Board



Cheryl O. Morton Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 10/31/2018



#### Scientific Analytical Institute, Inc.

4604 Dundas Dr., Greensboro, NC 27407

Laboratory ID: **173190** Issue Date: 10/31/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

#### Industrial Hygiene Laboratory Accreditation Program (IHLAP)

IHLAP Scope Category	<b>Field of Testing (FoT)</b> (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In- house Method	Method Description or Analyte (for internal methods only)
Chromatography	Ion Chromatography (IC)		NIOSH 7600	
Core			OSHA ID-215 v2	
		CVAA	NIOSH 6009	
	Atomic Absorption	CVAA	OSHA ID-140	
Speetrometry Core		FAA	NIOSH 7082	
Spectrometry Core	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300	
	X-ray Diffraction (XRD)		NIOSH 7500	
	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
Asbestos/Fiber	Phase Contrast Microscopy (PCM)		NIOSH 7400	
Microscopy Core			40 CFR Part 763 Subpart E	
	Transmission Electron Microscopy (TEM)		Appendix A	
			AHERA	
			NIOSH 7402	
			NIOSH 0500	
Miscellaneous Core	Gravimetric		NIOSH 0600	

#### Initial Accreditation Date: 03/01/2007

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <u>http://www.aihaaccreditedlabs.org</u>



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The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

#### **Environmental Lead Laboratory Accreditation Program (ELLAP)**

#### Initial Accreditation Date: 03/01/2007

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (for internal methods only)
		EPA SW-846 3050B	
Paint		EPA SW-846 6010C	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 6010C	
		EPA SW-846 7000B	
		EPA SW-846 3050B	
Settled Dust by Wipe		EPA SW-846 6010C	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>



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#### **Environmental Microbiology Laboratory Accreditation Program (EMLAP)**

EMLAP Category	Field of Testing (FoT)	Method	Method Description (for internal methods only)
	Air - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
	Bulk - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
	Surface - Culturable	B-SOP-007	Analysis of Viable Environmental Organisms
Fungal	Air - Direct Examination	B-SOP-003	Spore Trap Analysis by Phase Contrast and Light Microscopy for the Analysis of Bioaerosols
	Bulk - Direct Examination	B-SOP-005	Analysis of Direct Exam Bulks/Swab/Tape
	Surface - Direct Examination	B-SOP-005	Analysis of Direct Exam Bulks/Swab/Tape

#### Initial Accreditation Date: 04/01/2006

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <u>http://www.aihaaccreditedlabs.org</u>



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#### **Unique Scopes Laboratory Accreditation Program (Unique Scopes)**

Unique Scope Category	Field of Testing (FoT)	Method	Method Description (for internal methods only)
Consumer Product Testing	Lead in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09.1	L-SOP-014

#### Initial Accreditation Date: 09/01/2014

A complete listing of currently accredited Unique Scope laboratories is available on the AIHA-LAP, LLC website at: <u>http://www.aihaaccreditedlabs.org</u>