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January 7, 2020

Ms. Diane Czarnecki  
Industrial Hygienist  
Facilities Management Division  
GSA Public Buildings Service – Heartland Region  
2300 Main Street  
Kansas City, Missouri 64108

**RE: Goodfellow Federal Center - Metals in Air Investigation  
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 Resource Conservation and Recovery Act (RCRA) metals air sampling investigation of the above referenced buildings located at the Goodfellow Federal Center, in St. Louis, Missouri. OCCU-TEC understands that the purpose of the investigation was to provide sampling data regarding pre-existing conditions noted in investigation reports previously prepared for the facility. The following report summarizes the sample collection activities and the laboratory analytical results of the samples submitted.

On December 4<sup>th</sup>, 2019, Missouri licensed air sampling professionals from OCCU-TEC conducted air sampling for the presence of six (6) of the RCRA metals including Silver, Arsenic, Barium, Cadmium, Lead, and Selenium. Sampling was conducted on Building #104.

The proposed sampling scheme, the numbers of samples, sample distribution and general methodology was developed based on previous investigation methodology and in coordination with the GSA. Sample locations were determined by OCCU-TEC field personnel while on-site.

***Resource Conservation and Recovery Act Metals Air Sampling***

Air sampling for RCRA metals was collected on 37-millimeter (mm) cassettes with 0.8 micrometer ( $\mu\text{m}$ ) mixed cellulose ester (MCE) filters using powered air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples were collected in a method sufficient to collect a minimum sample volume of 300 liters. Air samples were submitted under chain-of-custody to Scientific Analytical Institute, Inc. (SAI) for independent analysis of RCRA metals in accordance with NIOSH Method 7300. SAI is accredited by the American Industrial Hygiene Association (AIHA) utilizing the **Industrial Hygiene Proficiency Analytical Testing (IHPAT) program**. SAI's IHPAT Laboratory ID is 173190.

Results of the air sampling are summarized in the table below by identifying the range of results for Building #104 for each of the seven metals that were sampled. **Samples with a “<” sign indicate that the results were below the laboratory’s method reporting limit.**

Analysis	Lowest Concentration ( $\mu\text{g}/\text{m}^3$ )	Highest Concentration ( $\mu\text{g}/\text{m}^3$ )
Silver (Ag)	<0.37	<0.37
Arsenic (As)	<0.71	<0.71
Barium (Ba)	<0.071	4.800
Cadmium (Cd)	<0.071	0.100
Lead (Pb)	<0.37	<0.37
Selenium (Se)	<0.71	<0.71

Results of the air samples collected indicate that the air samples collected from Building #104 contained concentrations of RCRA metals below the laboratory’s method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of Cadmium and/or Barium which was detected in twelve (12) of the samples. Sample location diagrams are attached is Appendix A. Sample locations and the corresponding results are summarized in the laboratory analytical results that are included in Appendix B. The air sampling professional’s Missouri Lead license is included in Appendix C.

It should be noted that this air sampling investigation was only a screening of airborne RCRA metals and should not be interpreted or used to determine compliance or non-compliance with OSHA personnel monitoring regulations.

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  
Project Manager



(b) (6)

Jeff Smith  
Senior Project Manager (QA/QC)

Appendices:

- A: Sample Location Diagrams
- B: Laboratory Analytical Results and Chain of Custody Documentation
- C: Qualifications and Licenses

# **Appendix A**

## Sample Location Diagrams

EXEMPTION (b)(7)(F)

**Figure 1: Air 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: Air Sample Location Maps—2nd Floor bldg. 104**

Goodfellow Federal Center  
4300 Goodfellow Boulevard  
St. Louis, Missouri  
Project Number: 919103

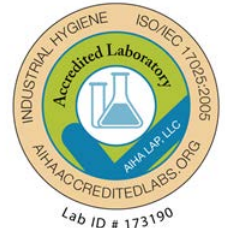
# **Appendix B**

## Laboratory Analytical Results and Chain of Custody Documentation



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

NIOSH Method 7303



<b>Client:</b>	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	<b>Attn:</b> Justin Arnold	<b>Lab Order ID:</b> 71931151
			<b>Date Received:</b> 12/12/2019
<b>Project:</b> 919103			<b>Date Reported:</b> 12/20/2019
			<b>Page:</b> 1 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-01	Field Blank	-	Ag	0.13	< 0.13	--
			As	0.25	< 0.25	--
			Ba	0.025	< 0.025	--
			Cd	0.025	< 0.025	--
			Pb	0.13	< 0.13	--
			Se	0.25	< 0.25	--
71931151IPA_1						
122019-MetA-104-02	Field Blank	-	Ag	0.13	< 0.13	--
			As	0.25	< 0.25	--
			Ba	0.025	< 0.025	--
			Cd	0.025	< 0.025	--
			Pb	0.13	< 0.13	--
			Se	0.25	< 0.25	--
71931151IPA_2						
122019-MetA-104-03	Field Blank	-	Ag	0.13	< 0.13	--
			As	0.25	< 0.25	--
			Ba	0.025	< 0.025	--
			Cd	0.025	< 0.025	--
			Pb	0.13	< 0.13	--
			Se	0.25	< 0.25	--
71931151IPA_3						

Melissa Ferrell

(b) (6)

**Analyst**

**Lab Director**

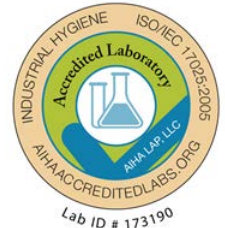
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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			<b>Page:</b> 2 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-04	1 <sup>st</sup> Floor Column D9	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_4						
122019-MetA-104-05	1 <sup>st</sup> Floor Column C6	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	1.7	4.8
			Cd	0.025	0.036	0.10
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_5						
122019-MetA-104-06	1 <sup>st</sup> Floor Column A2	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_6						

Melissa Ferrell

**Analyst**

(b) (6)

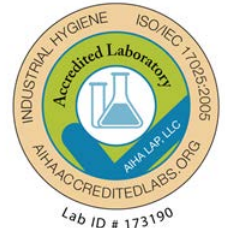
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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			<b>Page:</b> 3 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-07	1 <sup>st</sup> Floor Column H1	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.030	0.085
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_7						
122019-MetA-104-08	1 <sup>st</sup> Floor Column J5	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.028	0.079
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_8						
122019-MetA-104-09	1 <sup>st</sup> Floor Column F8	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.026	0.074
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_9						

Melissa Ferrell

**Analyst**

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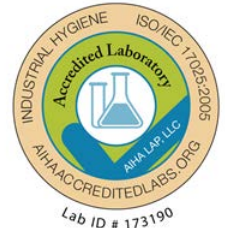
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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			<b>Page:</b> 4 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-10	1 <sup>st</sup> Floor Column E9	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.027	0.077
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_10						
122019-MetA-104-11	1 <sup>st</sup> Floor Column J13	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_11						
122019-MetA-104-12	2 <sup>nd</sup> Floor Column F4	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.027	0.077
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_12						

Melissa Ferrell

**Analyst**

(b) (6)

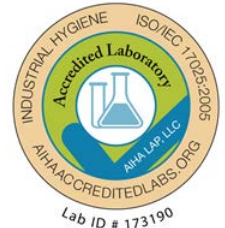
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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<b>Project:</b> 919103			<b>Date Reported:</b> 12/20/2019
			<b>Page:</b> 5 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-13	2 <sup>nd</sup> Floor Column G14	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.027	0.077
			Pb	0.13	< 0.13	< 0.37
71931151IPA_13			Se	0.25	< 0.25	< 0.71
122019-MetA-104-14	2 <sup>nd</sup> Floor Column G17	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	0.025	0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
71931151IPA_14			Se	0.25	< 0.25	< 0.71
122019-MetA-104-15	2 <sup>nd</sup> Floor Column A19	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
71931151IPA_15			Se	0.25	< 0.25	< 0.71

Melissa Ferrell

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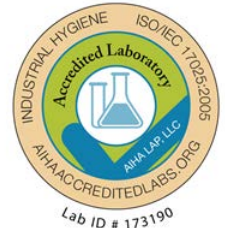
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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<b>Project:</b> 919103			<b>Date Reported:</b> 12/20/2019
			<b>Page:</b> 6 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-16	2 <sup>nd</sup> Floor Column E21	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.026	0.074
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_16						
122019-MetA-104-17	2 <sup>nd</sup> Floor Column H22	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.026	0.074
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_17						
122019-MetA-104-18	2 <sup>nd</sup> Floor Column G25	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_18						

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(b) (6)

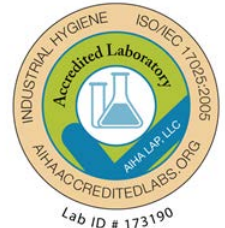
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			<b>Page:</b> 7 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-19	2 <sup>nd</sup> Floor Column H32	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
71931151IPA_19			Se	0.25	< 0.25	< 0.71
122019-MetA-104-20	2 <sup>nd</sup> Floor Column D24	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
71931151IPA_20			Se	0.25	< 0.25	< 0.71
122019-MetA-104-21	2 <sup>nd</sup> Floor Column A32	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
71931151IPA_21			Se	0.25	< 0.25	< 0.71

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(b) (6)

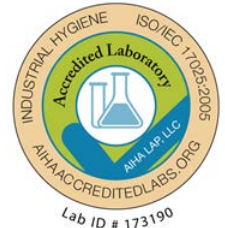
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<b>Project:</b> 919103			<b>Date Reported:</b> 12/20/2019
			<b>Page:</b> 8 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-22	2 <sup>nd</sup> Floor Column J35	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.031	0.088
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_22						
122019-MetA-104-23	2 <sup>nd</sup> Floor Column F41	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	0.027	0.077
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_23						
122019-MetA-104-24	2 <sup>nd</sup> Floor Column C44	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71
71931151IPA_24						

Melissa Ferrell

**Analyst**

(b) (6)

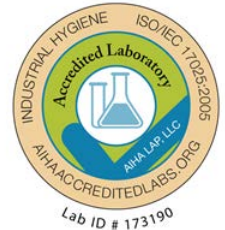
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# Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



<b>Client:</b>	OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	<b>Attn:</b> Justin Arnold	<b>Lab Order ID:</b> 71931151
			<b>Date Received:</b> 12/12/2019
<b>Project:</b> 919103			<b>Date Reported:</b> 12/20/2019
			<b>Page:</b> 9 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m <sup>3</sup> )
Lab Sample ID	Lab Notes					
122019-MetA-104-26	2 <sup>nd</sup> Floor Column E51	352.8	Ag	0.13	< 0.13	< 0.37
			As	0.25	< 0.25	< 0.71
			Ba	0.025	< 0.025	< 0.071
			Cd	0.025	< 0.025	< 0.071
71931151IPA_25			Pb	0.13	< 0.13	< 0.37
			Se	0.25	< 0.25	< 0.71

Melissa Ferrell

**Analyst**

(b) (6)

**Lab Director**

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190. Unless otherwise noted blank sample correction was not performed on analytical results. MDLs are available upon request. Reporting limits stated above.





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Lab Use Only  
 Lab Order ID: 11931151  
 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

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 _____	☐

\* Modified NIOSH 7500/OSHA ID 142

Billing/Invoice Information	Turn Around Times <sup>^</sup>	
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 ☐
<sup>^</sup> TATs not available for certain test types		
PO Number:		
Project Name/Number: 919103		

Sample ID #	Description/Location	Volume/Area	Comments
122019-104-MetA-01	Field Blank	N/A	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-02	Field Blank	N/A	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-03	Field Blank	N/A	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-04	1st Floor Column D9	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-05	1st Floor Column C6	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-06	1st Floor Column A2	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-07	1st Floor Column H1	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-08	1st Floor Column J5	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-09	1st Floor Column F8	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-10	1st Floor Column E9	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-11	1st Floor Column J13	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-12	2nd Floor Column F4	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-104-MetA-13	2nd Floor Column G14	352.8 L	Ag, As, Ba, Cd, Pb, Se

Total # of Samples ~~21~~ 25

Relinquished by	Date/Time	Received by	Date/Time
(b) (6)	12/9/19 16:00	(b) (6)	12/12 10:30

Accepted  
 Rejected  
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# **Appendix C**

## 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**

(b) (6)



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

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