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North Kansas City, Missouri 64117
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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 – #105
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 4th, 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 #105.

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 (μm) 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 #105 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	<0.071
Cadmium (Cd)	<0.071	0.074
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 #105 contained concentrations of RCRA metals below the laboratory’s method reporting limit and the OSHA Permissible Exposure Limit (PEL) with the exception of Cadmium in sample number 122019-MetA-105-03. Sample location diagrams are attached in 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. 105

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

EXEMPTION (b)(7)(F)

Figure 2: AirSample Location Maps—2nd Floor bldg. 105

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

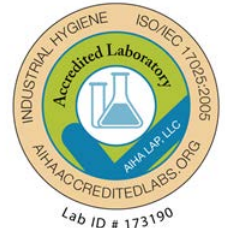
Appendix B

Laboratory Analytical Results and Chain of Custody Documentation



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

NIOSH Method 7303



Client: OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	Attn: Justin Arnold	Lab Order ID: 71931149 Date Received: 12/12/2019 Date Reported: 12/19/2019
Project:		Page: 1 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-01 71931149IPA_1	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	--
122019-MetA-105-02 71931149IPA_2	1 st Floor Column F52	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
122019-MetA-105-03 71931149IPA_3	1 st Floor Column D44	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

Melissa Ferrell

Analyst

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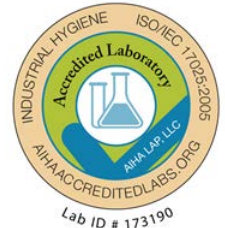
Lab Director

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

NIOSH Method 7303



Client: OCCU-TEC Inc. 2604 NE Industrial Drive, Suite 230 North Kansas City, MO 64117	Attn: Justin Arnold	Lab Order ID: 71931149 Date Received: 12/12/2019 Date Reported: 12/19/2019
Project:		Page: 2 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-04 71931149IPA_4	1 st Floor Column J41	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
122019-MetA-105-05 71931149IPA_5	1 st Floor Column E31	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
122019-MetA-105-06 71931149IPA_6	1 st Floor Column D28	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

Melissa Ferrell

Analyst

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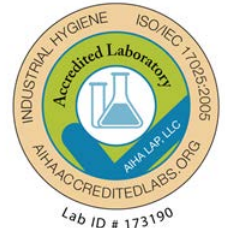
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Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-07	1 st Floor Column C25	514.08	Ag	0.13	< 0.13	< 0.25
			As	0.25	< 0.25	< 0.49
			Ba	0.025	< 0.025	< 0.049
			Cd	0.025	< 0.025	< 0.049
			Pb	0.13	< 0.13	< 0.25
			Se	0.25	< 0.25	< 0.49
71931149IPA_7						
122019-MetA-105-08	1 st Floor Column G21	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
71931149IPA_8						
122019-MetA-105-09	1 st Floor Column F18	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
71931149IPA_9						

Melissa Ferrell

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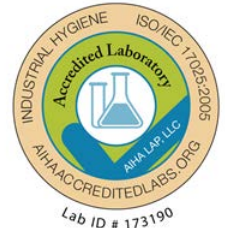
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NIOSH Method 7303



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Project:		Page: 4 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-10 71931149IPA_10	1 st Floor Column B18	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
122019-MetA-105-11 71931149IPA_11	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	--
122019-MetA-105-12 71931149IPA_12	1 st Floor Column H10	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

Melissa Ferrell

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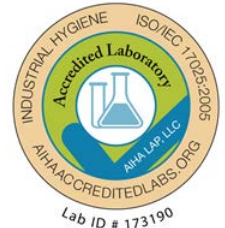
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Airborne Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

NIOSH Method 7303



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Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-13	1 st Floor Column C13	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
71931149IPA_13						
122019-MetA-105-14	1 st Floor Column H3	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
71931149IPA_14						
122019-MetA-105-15	2 nd Floor Column G1	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
71931149IPA_15						

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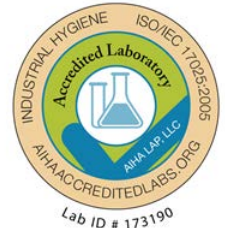
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Project:		Page: 6 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-16 71931149IPA_16	2 nd Floor Column C4	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
122019-MetA-105-17 71931149IPA_17	2 nd Floor Column F10	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
122019-MetA-105-18 71931149IPA_18	2 nd Floor Column E15	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

Melissa Ferrell

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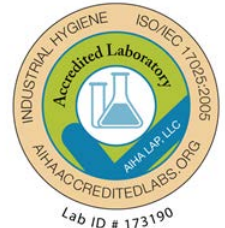
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Project:		Page: 7 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-19	2 nd Floor Column B19	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
71931149IPA_19			Se	0.25	< 0.25	< 0.71
122019-MetA-105-20	2 nd Floor Column E24	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
71931149IPA_20			Se	0.25	< 0.25	< 0.71
122019-MetA-105-21	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	--
71931149IPA_21			Se	0.25	< 0.25	--

Melissa Ferrell

Analyst

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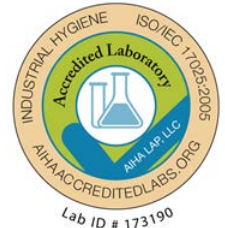
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Project:		Page: 8 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-22 71931149IPA_22	2 nd Floor Column E26	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
122019-MetA-105-23 71931149IPA_23	2 nd Floor Column G31	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
122019-MetA-105-24 71931149IPA_24	2 nd Floor Column C39	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

Melissa Ferrell

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(b) (6)

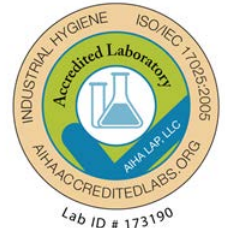
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Project:		Page: 9 of 9

Sample ID	Description	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m ³)
Lab Sample ID	Lab Notes					
122019-MetA-105-25	2 nd Floor Column F44	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
71931149IPA_25						
122019-MetA-105-26	2 nd Floor Column G47	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
71931149IPA_26						

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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: 11931149
 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 (XS1)*	☐
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)	<input checked="" type="checkbox"/>
Other _____	☐

* Modified NIOSH 7500/OSHA ID 142

Billing/Invoice Information	Turn Around Times [^]	
SAME <input checked="" type="checkbox"/>	90 Min. ☐	48 Hours ☐
Company:	3 Hours ☐	72 Hours ☐
Contact:	6 Hours ☐	96 Hours ☐
Address:	12 Hours ☐	120 Hours <input checked="" type="checkbox"/>
	24 Hours ☐	144 ⁺ Hours ☐
	[^] TATs not available for certain test types	
PO Number:		
Project Name/Number:		

Sample ID #	Description/Location	Volume/Area	Comments
122019-MetA-105-01	Field BLANK	0	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-02	1 st floor Column E52	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-03	1 st floor Column D44	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-04	1 st floor Column J41	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-05	1 st floor Column E31	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-06	1 st floor Column D28	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-07	1 st floor Column C25	514.08 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-08	1 st floor Column G21	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-09	1 st floor Column F18	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-10	1 st floor Column B18	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-11	Field BLANK	H10	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-12	1 st floor Column E13H10	352.8 L	Ag, As, Ba, Cd, Pb, Se
122019-MetA-105-13	1 st floor Column H3 C13	352.8 L	Ag, As, Ba, Cd, Pb, Se

Total # of Samples 26

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

Accepted
 Rejected

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