

North Kansas City, Missouri 64117 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

November 22, 2019

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 - Mercury Air Sampling Investigation
Building – #102E
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 November 8, 2019, Missouri licensed air sampling professionals from OCCU-TEC conducted air sampling for the presence of airborne particulate mercury in Building #102E.

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 particulate mercury 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 collected in accordance with NIOSH Method 7300 and submitted under chain-of-custody to Scientific Analytical Institute, Inc. (SAI), for independent analysis of mercury in accordance with NIOSH Method 6009. 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 #102E for the metal that was sampled. Samples with a "<" sign indicate that the results were below the laboratory's method reporting limit.

Analysis	Lowest Concentration	Highest Concentration
	$(\mu g/m^3)$	$(\mu g/m^3)$
Mercury (Hg)	< 0.057	< 0.057

Results of the air samples collected indicate that Building #102E contained concentrations of particulate mercury below the laboratory's method reporting limit and the OSHA Permissible Exposure Limit (PEL). 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 in included in Appendix C.

It should be noted that this air sampling investigation was only a screening of airborne particulate mercury 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,



Jeff Smith, Senior Project Manager



Kevin Heriford Environmental Operations Manager (QA/QC)

Appendices:

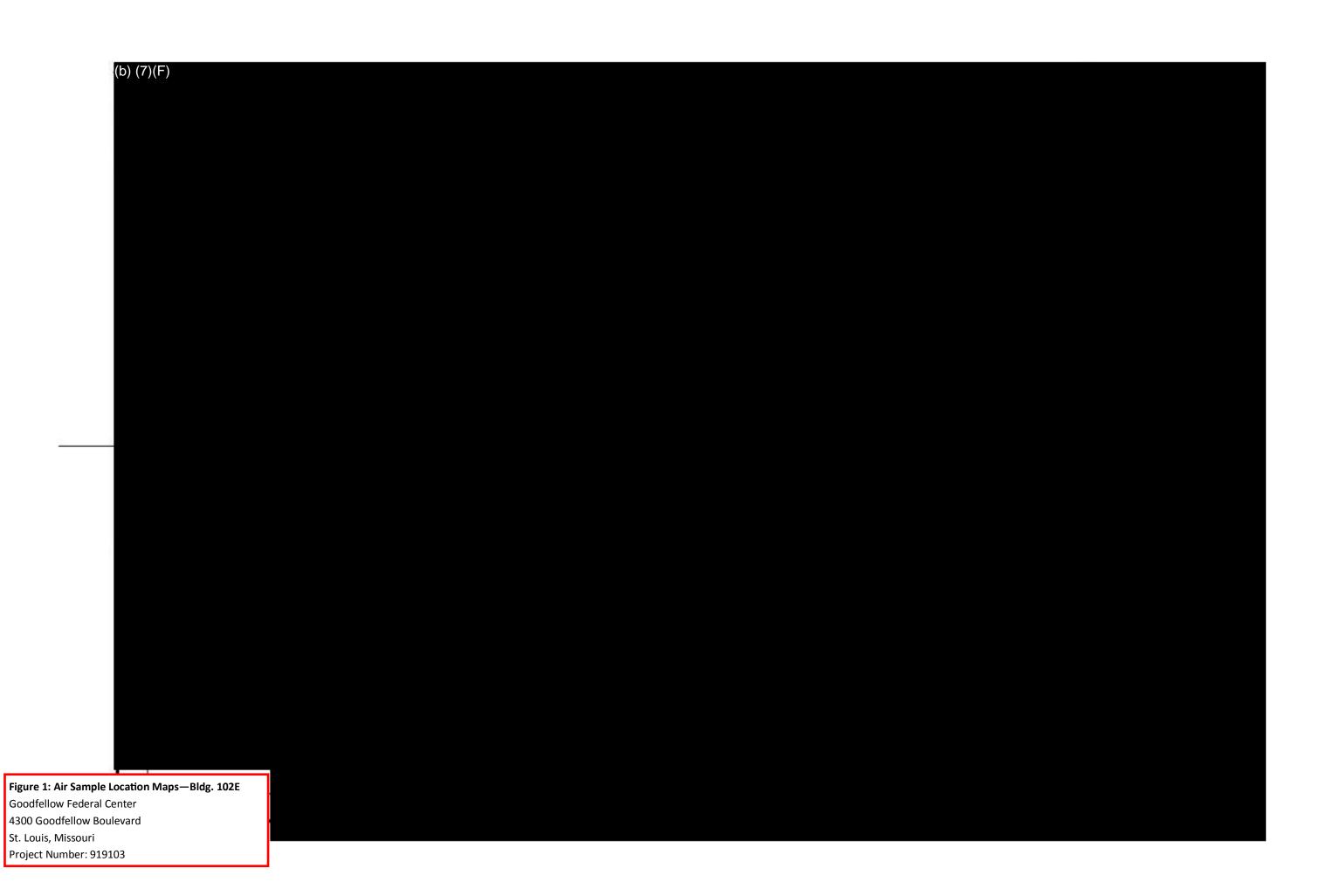
A: Sample Location Diagrams

B: Laboratory Analytical Results and Chain of Custody Documentation

C: Qualifications and Licenses

Appendix ASample Location Diagrams





Appendix B
Laboratory Analytical Results and Chain of Custody
Documentation





Airborne Mercury Concentration by Cold Vapor-Atomic Absorption (CVAA)



NIOSH Method 6009/OSHA ID-140

Client: OCCU-TEC Inc.

Attn:

Austin O'Byrne

71928700

2604 NE Industrial Dr #230

Lab Order ID: Date Received: Date Reported:

11/11/2019 11/18/2019

North Kansas City, MO 64117 Project: 919103.001

Page:

1 of 1

Sample ID	Description	Sampling	Volume	Concentration	Concentration	
Lab Sample ID	Lab Notes	Type	(L)	(μg)	(μg/m ³)	
102E-Hg-01	Field Blank	Particulate	-	< 0.025	-	
71928700HGA_1						
102E-Hg -02	Lower level – N24	Particulate	436.8	< 0.025	< 0.057	
71928700HGA_2						
102E-Hg -03	Upper level – L25	Particulate	436.8	< 0.025	< 0.057	
71928700HGA_3						

	(b) (6)
Melissa Ferrell	
Analyst	Lab Director

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. 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. The reporting limit for an undiluted air sample is 0.01µg total Mercury. Analytical uncertainty available upon request.



Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 www.sailab.com lab@sailab.com

Lab Use Only Lab Order ID:	71928700
Client Code: _	

	Company Contact Information		Inc	Industrial Hygiene Test Types		
Company: OCCU-TEC Inc. Contact: Austin O'Byrne		o O'Byrne	Silica as Alpha Quartz (XSZ)* With Respirable Dust (XDZ)			
Address: 2604 NE Industrial Drive, Suite 230	Phone □: 816-	602-0819	Silica as Cristobalite (XSC)* With Respirable Dust (XDC)			
North Kansas City, MO 64117	Fax □:816-9	Fax : 816-994-3417		Silica as Tridymite (XST)* With Respirable Dust (XDT)		
	Email : aobyrr	ne@occutec.com	Silica (XSA)	as Alpha Quartz, Cristobalite, Tridym With Respirable Dust (XDA	_	
Billing/Invoice Information	Turn Aro	Turn Around Times		Bulk (XSI)*	To	
SAME	90 Min.	48 Hours	Bulk I	Phase ID/Whole Rock (XUK)		
Company:	3 Hours	72 Hours	Total			
Contact:	6 Hours	96 Hours	NIOSH Method 0500 (GTD) Respirable Dust			
Address:	12 Hours	120 Hours	NIOSH Method 0600 (GRD) PCM NIOSH 7400-A Rules (PCM)		10	
	24 Hours	144 ⁺ Hours	B Ri	ales (PCB) TWA (PTA)		
	*TATs not available	e for certain test types	TEM	NIOSH 7402 (Asbestos) (TNI)		
PO Number:			Hexavalent Chromium (OSHA ID-213 (Note if from spray paint operations)			
Project Name/Number: 919103.001			Metal	(NIOSH 7300) (Specify Metals		
				Comments) NIOSH 8009 - Mercury Air Samples	×	
102E-Hy-02 Lower level -	N24	436.8	2	Mercury Air Sampl	05	
101E-Hg-01 Field	Field Blank			Mercury Air Samples		
DAK-174-02 LOWER LEVEL	1027	730.0	6	Mercary All Sample		
010 110 02 11 - 10 11	115	1121 1	1.	Marcuny Air Sampl	-	
OLE-Hg-03 Upper level -	L25	436.8	1	Mercury Air Sampl	es	
OLE-Hg-03 Upper level-	L25	436.8	1	Mercury Air Sampl	es es	
OLE-Hg-03 Upper level-	L25	436.8	_	Mercury Air Sampl Mercury Air Sampl	es es	
OLE-Hg-03 Upper level-	L25	436.8	1	Mercury Air Sampl	es es	
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OLE-Hg-03 Upper level-	L25			Mercury Air Sampl Mercury Air Sampl Mercury Air Sampl	es es	
OLE-Hg-03 Upper level-	L25			Mercury Air Sampl Mercury Air Sampl Mercury Air Sampl	es es	
		F	lei(Mercury Air Sample Mercury Air Sample Mercury Air Sample CTEC Total # of Samples	es es es es	
Relinquished by Da	ate/Time (b)	P Received	lei(Mercury Air Sampl Mercury Air Sampl Mercury Air Sampl	es es es es	
		P Received	lei(Mercury Air Sample Mercury Air Sample Mercury Air Sample CTCC Total # of Samples Date/Tir	es es es es	

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





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

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