

April 8, 2022 Diane Czarnecki Industrial Hygienist Facilities Management Division GSA Public Buildings Service – Heartland Region 2300 Main Street Kansas City, MO 64108

Re: Goodfellow Federal Center – Bldg. 106 Drinking Water Sampling Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above referenced environmental sampling activities. The following is our report.

INTRODUCTION

As requested, Burns & McDonnell conducted drinking water sampling and testing for the presence of lead and copper at Building 106 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. Sampling was completed in response to the ongoing environmental condition assessment at the Goodfellow Federal Center which is documented at the Goodfellow Federal Center Reading Room located at https://www.gsa.gov/portal/content/212361.

Drinking water sampling was conducted to determine the current levels of lead and copper in representative sources throughout the complex. Drinking water sampling at Bldg. 106 was conducted on March 17, 2022 by Jeff Smith of OCCU-TEC.

METHODOLOGY

The sampling methodology used during this investigation was developed in general accordance with the United States Environmental Protection Agency's (EPA) "Quick Guide to Drinking Water Sample Collection – Second Edition" developed by the EPA Region 8 in September 2016.

Samples were collected as first draw samples in accordance with the Lead and Copper Rule (40 CFR Part 141 Subpart I). First draw samples represent 'worst case' conditions with water that has been stationary within the plumbing systems for a minimum of six hours. The samples were collected in individually labeled 1000 milliliter (mL) plastic bottles capped with Teflon septa lined screw caps. The bottles were filled to the shoulder with water from the sample source. The samples were then placed in a cooler for safe transport. Each sample was acidified at the laboratory as needed.



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Drinking water sampling for the presence of lead and copper was conducted at two (2) distinct locations within Building 106. A total of three (3) samples were obtained including duplicate samples. After each drinking water sample was collected, Burns & McDonnell filled a separate sample cup with approximately 2 inches of water. Burns & McDonnell placed an Oakton EcoTestr pH and temperature meter into the sample cup. After readings stabilized, Burns & McDonnell recorded the readings for pH (the acidity or basicity of an aqueous solution) and the temperature (in degrees Celsius) on site specific sample logs.

Drinking water samples were submitted to Eurofins-Eaton Analytical in South Bend, IN for analyses of lead and copper. Eurofins-Eaton Analytical is certified by the State of Missouri Department of Natural Resources (MDNR) as an approved drinking water laboratory. Eurofins-Eaton Analytical's Missouri Certification number is 880.

The drinking water samples were collected using media supplied by Eurofins-Eaton Analytical. Lead and Copper samples were collected and analyzed in accordance with EPA Method 200.8.

RESULTS AND DISCUSSION

Analysis	Lowest Concentration ^(a)	Highest Concentration ^(a)	Action Level ^(b)
Lead	<0.5 µg/L	0.7 μg/L	15 μg/L
Copper	2 µg/L	140 µg/L	1300 µg/L

The results for the subject testing are summarized in the table below.

Notes:

(a) Samples with a "<" sign indicate that the results were below the reportable limit.

(b) As per EPA Lead and Copper Rule (40 CFR Part 141 Subpart I).

(c) $\mu g/L-micrograms$ per liter

No samples resulted in lead or copper concentrations over the action levels.

A summary table of all sampling results by location is included in Appendix A. The complete laboratory report for the drinking water sampling from Eurofins-Eaton Analytical is attached in Appendix B.

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Normal pH levels for drinking water are between 6.0 to 8.5. Water with a pH < 6.5 is considered acidic, soft, and corrosive. Acidic water may contain metal ions, may cause premature damage to metal piping, and increases the likelihood of leaching. Water with a pH > 8.5 is considered alkaline or basic and can indicate that the water is hard. Hard water does not pose a health risk



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but can cause aesthetic problems. These problems include an alkali taste, the formation of scale deposits, and difficulty in getting soaps and detergents to lather.

Recorded pH levels in Building 106 ranged from 10.30 to 10.40 indicating the drinking water is slightly alkaline.

LIMITATIONS

The scope of this assessment was limited in nature. Burns & McDonnell collected samples from a select number of drinking water sources in an effort to minimize cost while providing a general overview of the drinking water quality at the site. Sample locations do not encompass every drinking water source at the Site. Additionally, samples were only analyzed for a select number of potential contaminants likely to affect the drinking water quality at the site. Burns & McDonnell is not responsible for potential contaminants not identified in this report.

Burns & McDonnell appreciates the opportunity to work with the GSA on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.

Sincerely,



Matt Shanahan, CHMM Project Manager

Attachments:

Appendix A - Results Summary by Location Appendix B - Water Sample Laboratory Report **APPENDIX A – RESULTS SUMMARY BY LOCATION**

Appendix A Results Summary by Location

Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	Above / Below	AL
106-DW-01	Drinking fountain*	10.4	14.8	DF	Copper		140	μg/L	Below	1300
106-DW-01	Drinking fountain*	10.4	14.8	DF	Lead		0.69	μg/L	Below	15
106-DW-02	North side of guard shack, restroom*	10.3	17.1	Sink	Copper		2.0	μg/L	Below	1300
106-DW-02	North side of guard shack, restroom*	10.3	17.1	Sink	Lead	<	0.50	μg/L	Below	15
106-DW-03	Duplicate of 106-DW-02*	10.3	17.1	Sink D	Copper		1.8	µg/L	Below	1300
106-DW-03	Duplicate of 106-DW-02*	10.3	17.1	Sink D	Lead	<	0.50	μg/L	Below	15

Notes:

* - Not first draw

DF - Drinking Fountain

D - Duplicate

AL - Action Level

µg/L - micrograms per liter

APPENDIX B – WATER SAMPLE LABORATORY REPORT

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Eaton South Bend 110 S Hill Street South Bend, IN 46617 Tel: (574)233-4777

Laboratory Job ID: 810-18593-1

Client Project/Site: Burns & McDonnell

For:

Burns & McDonnell 425 South Woods Mill Road Chesterfield, Missouri 63017

Attn: Mr. Matt Shanahan

) (6)

Authorized for release by: 3/27/2022 9:49:21 PM

Patricia Muff, Project Manager (574)233-4777 patricia.muff@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

Expert

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Client: Burns & McDonnell Project/Site: Burns & McDonnell

Job ID: 810-18593-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ИL	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Client: Burns & McDonnell Project/Site: Burns & McDonnell

Date Collected: 03/17/22 09:34

Date Received: 03/22/22 13:15

Analyte

Lead

Client Sample ID: 106-DW-01

Method: 200.8 - Metals (ICP/MS)

Matrix: Drinking Water

Lab Sample ID: 810-18593-1

Analyzed

03/25/22 12:01

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Copper	140		1.0	ug/L			03/25/22 12:01	1
Client Sample ID: 106-DW-02						Lab San	nple ID: 810-1	8593-2
Date Collected: 03/17/22 09:40							Matrix: Drinkin	g Water
Date Received: 03/22/22 13:15								
Method: 200.8 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			03/25/22 12:04	1
Copper	2.0		1.0	ug/L			03/25/22 12:04	1
Client Sample ID: 106-DW-03						Lab San	nple ID: 810-1	8593-3
Date Collected: 03/17/22 09:40							Matrix: Drinkin	g Water
								-

RL

0.50

Unit

ug/L

D

Prepared

Result Qualifier

0.69

Date Received: 03/22/22 13:15

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			03/25/22 12:06	1
Copper	1.8		1.0	ug/L			03/25/22 12:06	1

5

Lab Sample ID: 810-18593-1

Client Sample ID: 106-DW-01

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 12:01	JK	EASB
Client Samp	le ID: 106-D	N-02					La	ab Sample ID: 810-18593-
Date Collected	: 03/17/22 09:4	0						Matrix: Drinking Wate
Date Received	: 03/22/22 13:1	5						
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Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 12:04	JK	EA SB
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Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
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Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Eurofins Eaton South Bend

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Laboratory: Eurofins Eaton South Bend The accreditations/certifications listed below are applicable to this report.

A	uthority	Program	Identification Number	Expiration Date
	issouri	State	880	09-30-24

Client: Burns & McDonnell Project/Site: Burns & McDonnell

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EASB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Eurofins Eaton South Bend

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-18593-1	106-DW-01	Drinking Water	03/17/22 09:34	03/22/22 13:15
810-18593-2	106-DW-02	Drinking Water	03/17/22 09:40	03/22/22 13:15
810-18593-3	106-DW-03	Drinking Water	03/17/22 09:40	03/22/22 13:15



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Client: Burns & McDonnell

Login Number: 18593 List Number: 1 Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

10