



April 16, 2021
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. #105 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 #105 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. #105 was conducted on March 16-17, 2021 by Nick Turnbeaugh of Burns & McDonnell and 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.

Diane Czarnecki
 Facilities Management Division
 April 16, 2021
 Page 2

Drinking water sampling for the presence of lead and copper was conducted at thirty-nine (39) distinct locations within Building #105. A total of forty-three (43) 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 pH30 pH tester 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

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

Analysis	Lowest Concentration^(a)	Highest Concentration^(a)	Action Level^(b)
Lead	<1.0 µg/L	44.0 µg/L	15 µg/L
Copper	3 µg/L	230 µg/L	1300 µg/L

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).

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.

Lead

Three samples exceeded the Action Level (AL) for lead. Samples 105-DW-08, 105-DW-11, and 105-DW-32 resulted in lead concentrations of 30, 44, and 24 µg/L, respectively.

Copper

All samples were below the AL for copper.



Diane Czarnecki
Facilities Management Division
April 16, 2021
Page 3

pH

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 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 #105 ranged from 8.09 to 9.68 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.

This report was prepared for the sole use of GSA. Reliance by any party other than GSA is expressly forbidden without Burns & McDonnell's written permission. Any parties relying on the report, with Burns & McDonnell's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

Burns & McDonnell appreciates the opportunity to work with the General Services Administration 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	pH	Temp (°C)	Water Source	Analyte	Result	Units	Above / Below	AL
105-DW-01	1st floor, south entrance	9.63	14.9	L DF	Copper	110	µg/L	Below	1300
105-DW-01	1st floor, south entrance	9.63	14.9	L DF	Lead	1.3	µg/L	Below	15
105-DW-02	2nd floor, east wall by south entrance	9.37	16.7	L DF	Copper	35	µg/L	Below	1300
105-DW-02	2nd floor, east wall by south entrance	9.37	16.7	L DF	Lead	< 1.0	µg/L	Below	15
105-DW-03	2nd floor, east wall by south entrance	9.28	16.6	Bottle Filler	Copper	24	µg/L	Below	1300
105-DW-03	2nd floor, east wall by south entrance	9.28	16.6	Bottle Filler	Lead	< 1.0	µg/L	Below	15
105-DW-04	2nd floor, room 345, N sink, center table	8.95	22.6	Sink	Copper	9.0	µg/L	Below	1300
105-DW-04	2nd floor, room 345, N sink, center table	8.95	22.6	Sink	Lead	9.8	µg/L	Below	15
105-DW-05	Duplicate of 105-DW-04	8.95	22.6	Sink D	Copper	8.9	µg/L	Below	1300
105-DW-05	Duplicate of 105-DW-04	8.95	22.6	Sink D	Lead	9.4	µg/L	Below	15
105-DW-06	2nd floor, room 3, east sink, right faucet	8.73	22.5	Sink	Copper	5.6	µg/L	Below	1300
105-DW-06	2nd floor, room 3, east sink, right faucet	8.73	22.5	Sink	Lead	< 1.0	µg/L	Below	15
105-DW-07	2nd floor, room 348, west wall, left faucet	9.39	22.3	Sink	Copper	18	µg/L	Below	1300
105-DW-07	2nd floor, room 348, west wall, left faucet	9.39	22.3	Sink	Lead	< 1.0	µg/L	Below	15
105-DW-08	2nd floor, room 356, NE corner, left faucet	9.48	21.5	Sink	Copper	230	µg/L	Below	1300
105-DW-08	2nd floor, room 356, NE corner, left faucet	9.48	21.5	Sink	Lead	30	µg/L	Above	15
105-DW-09	2nd floor, room 306, S center island sink	9.00	23.5	Sink	Copper	3.6	µg/L	Below	1300
105-DW-09	2nd floor, room 306, S center island sink	9.00	23.5	Sink	Lead	2.5	µg/L	Below	15
105-DW-10	Duplicate of 105-DW-09	9.00	23.5	Sink D	Copper	3.2	µg/L	Below	1300
105-DW-10	Duplicate of 105-DW-09	9.00	23.5	Sink D	Lead	2.8	µg/L	Below	15
105-DW-11	2nd floor, room 223, break room, left faucet	9.22	23.5	Sink	Copper	44	µg/L	Below	1300
105-DW-11	2nd floor, room 223, break room, left faucet	9.22	23.5	Sink	Lead	44	µg/L	Above	15
105-DW-12	2nd floor, room 223, break room, right faucet	9.31	24.2	Sink	Copper	41	µg/L	Below	1300
105-DW-12	2nd floor, room 223, break room, right faucet	9.31	24.2	Sink	Lead	1.8	µg/L	Below	15
105-DW-13	2nd floor, room 328, south wall, right faucet	8.86	24.1	Sink	Copper	24	µg/L	Below	1300
105-DW-13	2nd floor, room 328, south wall, right faucet	8.86	24.1	Sink	Lead	13	µg/L	Below	15
105-DW-14	2nd floor, room 324, east lab sink, right faucet	8.21	24.3	Sink	Copper	3.8	µg/L	Below	1300
105-DW-14	2nd floor, room 324, east lab sink, right faucet	8.21	24.3	Sink	Lead	< 1.0	µg/L	Below	15

Appendix A
Results Summary by Location

Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	Above / Below	AL
105-DW-15	2nd floor, room 340, S wall sink, left faucet	9.29	23.6	Sink	Copper	42	µg/L	Below	1300
105-DW-15	2nd floor, room 340, S wall sink, left faucet	9.29	23.6	Sink	Lead	1.7	µg/L	Below	15
105-DW-16	2nd floor, room 337, sink in front of door	9.43	23.8	Sink	Copper	16	µg/L	Below	1300
105-DW-16	2nd floor, room 337, sink in front of door	9.43	23.8	Sink	Lead	1.2	µg/L	Below	15
105-DW-17	2nd floor, room 336, south wall, right faucet	9.28	23.3	Sink	Copper	14	µg/L	Below	1300
105-DW-17	2nd floor, room 336, south wall, right faucet	9.28	23.3	Sink	Lead	2.0	µg/L	Below	15
105-DW-18	2nd floor, across from room 315M	9.68	18.2	L DF	Copper	64	µg/L	Below	1300
105-DW-18	2nd floor, across from room 315M	9.68	18.2	L DF	Lead	1.4	µg/L	Below	15
105-DW-19	2nd floor, room 317, break room, W wall	9.39	20.7	Sink	Copper	28	µg/L	Below	1300
105-DW-19	2nd floor, room 317, break room, W wall	9.39	20.7	Sink	Lead	< 1.0	µg/L	Below	15
105-DW-20	2nd floor, room 311, N wall, right faucet	9.29	21.2	Sink	Copper	130	µg/L	Below	1300
105-DW-20	2nd floor, room 311, N wall, right faucet	9.29	21.2	Sink	Lead	3.0	µg/L	Below	15
105-DW-21	1st floor, receiving dock, column B46	9.44	20.4	Refrigerator	Copper	45	µg/L	Below	1300
105-DW-21	1st floor, receiving dock, column B46	9.44	20.4	Refrigerator	Lead	< 1.0	µg/L	Below	15
105-DW-22	1st floor, column B42, left faucet	9.35	20.3	Sink	Copper	120	µg/L	Below	1300
105-DW-22	1st floor, column B42, left faucet	9.35	20.3	Sink	Lead	4.9	µg/L	Below	15
105-DW-23	1st floor, column J12, nursing station	9.32	19.9	Sink	Copper	82	µg/L	Below	1300
105-DW-23	1st floor, column J12, nursing station	9.32	19.9	Sink	Lead	< 1.0	µg/L	Below	15
105-DW-24	1st floor, column B31, bottle filler	9.12	18.4	DF	Copper	34	µg/L	Below	1300
105-DW-24	1st floor, column B31, bottle filler	9.12	18.4	DF	Lead	< 1.0	µg/L	Below	15
105-DW-25	1st floor, break room, column B20	9.46	20.7	Sink	Copper	180	µg/L	Below	1300
105-DW-25	1st floor, break room, column B20	9.46	20.7	Sink	Lead	1.2	µg/L	Below	15
105-DW-26	Duplicate of 105-DW-25	9.46	20.7	Sink D	Copper	100	µg/L	Below	1300
105-DW-26	Duplicate of 105-DW-25	9.46	20.7	Sink D	Lead	< 1.0	µg/L	Below	15
105-DW-27	1st floor, column B19	8.69	16.1	L DF	Copper	61	µg/L	Below	1300
105-DW-27	1st floor, column B19	8.69	16.1	L DF	Lead	1.8	µg/L	Below	15
105-DW-28	1st floor, column B19	9.53	14.7	R DF	Copper	43	µg/L	Below	1300
105-DW-28	1st floor, column B19	9.53	14.7	R DF	Lead	1.7	µg/L	Below	15

Appendix A
Results Summary by Location

Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	Above / Below	AL
105-DW-29	1st floor, break room, column B9	9.45	16.2	Sink	Copper	85	µg/L	Below	1300
105-DW-29	1st floor, break room, column B9	9.45	16.2	Sink	Lead	< 1.0	µg/L	Below	15
105-DW-30	1st floor, column B6	9.37	16.9	L DF	Copper	130	µg/L	Below	1300
105-DW-30	1st floor, column B6	9.37	16.9	L DF	Lead	10	µg/L	Below	15
105-DW-31	1st floor, column B6	9.49	16.9	R DF	Copper	79	µg/L	Below	1300
105-DW-31	1st floor, column B6	9.49	16.9	R DF	Lead	7.8	µg/L	Below	15
105-DW-32	1st floor, column C5	9.29	20.9	Sink	Copper	84	µg/L	Below	1300
105-DW-32	1st floor, column C5	9.29	20.9	Sink	Lead	24	µg/L	Above	15
105-DW-33	2nd floor, column H9	9.37	20.3	L DF	Copper	87	µg/L	Below	1300
105-DW-33	2nd floor, column H9	9.37	20.3	L DF	Lead	1.7	µg/L	Below	15
105-DW-34	2nd floor, column H9	9.42	20.6	R DF	Copper	56	µg/L	Below	1300
105-DW-34	2nd floor, column H9	9.42	20.6	R DF	Lead	1.3	µg/L	Below	15
105-DW-35	2nd floor, column G26	9.60	14.3	L DF	Copper	73	µg/L	Below	1300
105-DW-35	2nd floor, column G26	9.60	14.3	L DF	Lead	< 1.0	µg/L	Below	15
105-DW-36	2nd floor, column G26	8.90	13.9	R DF	Copper	72	µg/L	Below	1300
105-DW-36	2nd floor, column G26	8.90	13.9	R DF	Lead	< 1.0	µg/L	Below	15
105-DW-37	2nd floor, column B31, bottle filler	9.00	17.4	DF	Copper	66	µg/L	Below	1300
105-DW-37	2nd floor, column B31, bottle filler	9.00	17.4	DF	Lead	< 1.0	µg/L	Below	15
105-DW-38	Duplicate of 105-DW-38	9.00	17.4	DF D	Copper	71	µg/L	Below	1300
105-DW-38	Duplicate of 105-DW-38	9.00	17.4	DF D	Lead	< 1.0	µg/L	Below	15
105-DW-39	2nd floor, break room, column B30	9.40	19.9	Sink	Copper	51	µg/L	Below	1300
105-DW-39	2nd floor, break room, column B30	9.40	19.9	Sink	Lead	7.7	µg/L	Below	15
105-DW-40	2nd floor, column B19	9.27	16.2	L DF	Copper	58	µg/L	Below	1300
105-DW-40	2nd floor, column B19	9.27	16.2	L DF	Lead	< 1.0	µg/L	Below	15
105-DW-41	2nd floor, column B19	9.14	16.7	R DF	Copper	41	µg/L	Below	1300
105-DW-41	2nd floor, column B19	9.14	16.7	R DF	Lead	< 1.0	µg/L	Below	15
105-DW-42	2nd floor, break room, column B17	8.09	20.2	Ice Machine	Copper	110	µg/L	Below	1300
105-DW-42	2nd floor, break room, column B17	8.09	20.2	Ice Machine	Lead	2.3	µg/L	Below	15

Appendix A
Results Summary by Location

Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	Above / Below	AL
105-DW-43	2nd floor, break room, column B17	9.29	20.9	Sink	Copper	33	µg/L	Below	1300
105-DW-43	2nd floor, break room, column B17	9.29	20.9	Sink	Lead	3.3	µg/L	Below	15

Notes:

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

AL - Action Level

µg/L - micrograms per liter

APPENDIX B – WATER SAMPLE LABORATORY REPORT

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Burns & McDonnell Engineers
 Attn: Emily Ahlemeyer
 425 South Woods Mill Road
 Suite 300
 Chesterfield, MO 63017

Report: 513728
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4862571	105-DW-01	200.8	03/16/21 05:19	Client	03/26/21 09:30
4862572	105-DW-02	200.8	03/16/21 05:23	Client	03/26/21 09:30
4862573	105-DW-03	200.8	03/16/21 05:25	Client	03/26/21 09:30
4862574	105-DW-04	200.8	03/16/21 05:31	Client	03/26/21 09:30
4862575	105-DW-05	200.8	03/16/21 05:32	Client	03/26/21 09:30
4862576	105-DW-06	200.8	03/16/21 05:35	Client	03/26/21 09:30
4862577	105-DW-07	200.8	03/16/21 05:39	Client	03/26/21 09:30
4862578	105-DW-08	200.8	03/16/21 05:43	Client	03/26/21 09:30
4862579	105-DW-09	200.8	03/16/21 05:47	Client	03/26/21 09:30
4862580	105-DW-10	200.8	03/16/21 05:48	Client	03/26/21 09:30
4862581	105-DW-11	200.8	03/16/21 05:52	Client	03/26/21 09:30
4862582	105-DW-12	200.8	03/16/21 05:53	Client	03/26/21 09:30
4862583	105-DW-13	200.8	03/16/21 05:57	Client	03/26/21 09:30
4862584	105-DW-14	200.8	03/16/21 05:59	Client	03/26/21 09:30
4862585	105-DW-15	200.8	03/16/21 06:04	Client	03/26/21 09:30
4862586	105-DW-16	200.8	03/16/21 06:08	Client	03/26/21 09:30
4862587	105-DW-17	200.8	03/16/21 06:11	Client	03/26/21 09:30
4862588	105-DW-18	200.8	03/16/21 06:13	Client	03/26/21 09:30
4862589	105-DW-19	200.8	03/16/21 06:17	Client	03/26/21 09:30
4862590	105-DW-20	200.8	03/16/21 06:22	Client	03/26/21 09:30
4862591	105-DW-21	200.8	03/16/21 06:29	Client	03/26/21 09:30
4862592	105-DW-22	200.8	03/16/21 06:32	Client	03/26/21 09:30
4862593	105-DW-23	200.8	03/17/21 07:47	Client	03/26/21 09:30
4862594	105-DW-24	200.8	03/17/21 07:56	Client	03/26/21 09:30
4862595	105-DW-25	200.8	03/17/21 08:01	Client	03/26/21 09:30
4862596	105-DW-26	200.8	03/17/21 08:01	Client	03/26/21 09:30
4862597	105-DW-27	200.8	03/17/21 08:05	Client	03/26/21 09:30
4862598	105-DW-28	200.8	03/17/21 08:08	Client	03/26/21 09:30
4862599	105-DW-29	200.8	03/17/21 08:12	Client	03/26/21 09:30
4862600	105-DW-30	200.8	03/17/21 08:18	Client	03/26/21 09:30
4862601	105-DW-31	200.8	03/17/21 08:21	Client	03/26/21 09:30

4862602	105-DW-32	200.8	03/17/21 08:26	Client	03/26/21 09:30
4862603	105-DW-33	200.8	03/17/21 08:44	Client	03/26/21 09:30
4862604	105-DW-34	200.8	03/17/21 08:47	Client	03/26/21 09:30
4862605	105-DW-35	200.8	03/17/21 08:57	Client	03/26/21 09:30
4862606	105-DW-36	200.8	03/17/21 09:00	Client	03/26/21 09:30
4862607	105-DW-37	200.8	03/17/21 09:10	Client	03/26/21 09:30
4862608	105-DW-38	200.8	03/17/21 09:10	Client	03/26/21 09:30
4862609	105-DW-39	200.8	03/17/21 09:15	Client	03/26/21 09:30
4862610	105-DW-40	200.8	03/17/21 09:20	Client	03/26/21 09:30
4862611	105-DW-41	200.8	03/17/21 09:25	Client	03/26/21 09:30
4862612	105-DW-42	200.8	03/17/21 09:35	Client	03/26/21 09:30
4862613	105-DW-43	200.8	03/17/21 09:37	Client	03/26/21 09:30

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

(b) (6)

ASM

04/03/2021

Authorized Signature

Title

Date

Client Name: Burns & McDonnell Engineers

Report #: 513728

Sampling Point: 105-DW-01

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	110	ug/L	---	04/01/21 16:06	4862571
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L	---	04/01/21 16:06	4862571

Sampling Point: 105-DW-02

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	35	ug/L	---	04/01/21 16:09	4862572
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 16:09	4862572

Sampling Point: 105-DW-03

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	24	ug/L	---	04/01/21 16:11	4862573
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 16:11	4862573

Sampling Point: 105-DW-04

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	9.0	ug/L	---	04/01/21 16:13	4862574
7439-92-1	Lead	200.8	15 !	1.0	9.8	ug/L	---	04/01/21 16:13	4862574

Sampling Point: 105-DW-05

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	8.9	ug/L	---	04/01/21 16:16	4862575
7439-92-1	Lead	200.8	15 !	1.0	9.4	ug/L	---	04/01/21 16:16	4862575

Sampling Point: 105-DW-06

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	5.6	ug/L	---	04/01/21 16:18	4862576
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 16:18	4862576

Sampling Point: 105-DW-07

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	18	ug/L	---	04/01/21 16:26	4862577
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 16:26	4862577

Sampling Point: 105-DW-08

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	230	ug/L	---	04/01/21 16:28	4862578
7439-92-1	Lead	200.8	15 !	1.0	30	ug/L	---	04/01/21 16:28	4862578

Sampling Point: 105-DW-09

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	3.6	ug/L	---	04/01/21 16:36	4862579
7439-92-1	Lead	200.8	15 !	1.0	2.5	ug/L	---	04/01/21 16:36	4862579

Sampling Point: 105-DW-10

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	3.2	ug/L	---	04/01/21 16:38	4862580
7439-92-1	Lead	200.8	15 !	1.0	2.8	ug/L	---	04/01/21 16:38	4862580

Sampling Point: 105-DW-11

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	44	ug/L	---	04/01/21 16:40	4862581
7439-92-1	Lead	200.8	15 !	1.0	44	ug/L	---	04/01/21 16:40	4862581

Sampling Point: 105-DW-12

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	41	ug/L	---	04/01/21 16:43	4862582
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L	---	04/01/21 16:43	4862582

Sampling Point: 105-DW-13

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	24	ug/L	---	04/01/21 16:45	4862583
7439-92-1	Lead	200.8	15 !	1.0	13	ug/L	---	04/01/21 16:45	4862583

Sampling Point: 105-DW-14

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	3.8	ug/L	---	04/01/21 16:48	4862584
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 16:48	4862584

Sampling Point: 105-DW-15

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	42	ug/L	---	04/01/21 16:50	4862585
7439-92-1	Lead	200.8	15 !	1.0	1.7	ug/L	---	04/01/21 16:50	4862585

Sampling Point: 105-DW-16

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	16	ug/L	---	04/01/21 16:53	4862586
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L	---	04/01/21 16:53	4862586

Sampling Point: 105-DW-17

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	14	ug/L	---	04/01/21 17:05	4862587
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L	---	04/01/21 17:05	4862587

Sampling Point: 105-DW-18

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	64	ug/L	---	04/01/21 17:12	4862588
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L	---	04/01/21 17:12	4862588

Sampling Point: 105-DW-19

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L	---	04/01/21 17:15	4862589
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:15	4862589

Sampling Point: 105-DW-20

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	130	ug/L	---	04/01/21 17:17	4862590
7439-92-1	Lead	200.8	15 !	1.0	3.0	ug/L	---	04/01/21 17:17	4862590

Sampling Point: 105-DW-21

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	45	ug/L	---	04/01/21 17:20	4862591
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:20	4862591

Sampling Point: 105-DW-22

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	120	ug/L	---	04/01/21 17:22	4862592
7439-92-1	Lead	200.8	15 !	1.0	4.9	ug/L	---	04/01/21 17:22	4862592

Sampling Point: 105-DW-23

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	82	ug/L	---	04/01/21 17:25	4862593
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:25	4862593

Sampling Point: 105-DW-24

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	34	ug/L	---	04/01/21 17:27	4862594
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:27	4862594

Sampling Point: 105-DW-25

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	180	ug/L	---	04/01/21 17:30	4862595
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L	---	04/01/21 17:30	4862595

Sampling Point: 105-DW-26

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	100	ug/L	---	04/01/21 17:32	4862596
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:32	4862596

Sampling Point: 105-DW-27

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	61	ug/L	---	04/01/21 17:39	4862597
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L	---	04/01/21 17:39	4862597

Sampling Point: 105-DW-28

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	43	ug/L	---	04/01/21 17:42	4862598
7439-92-1	Lead	200.8	15 !	1.0	1.7	ug/L	---	04/01/21 17:42	4862598

Sampling Point: 105-DW-29

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	85	ug/L	---	04/01/21 17:49	4862599
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 17:49	4862599

Sampling Point: 105-DW-30

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	130	ug/L	---	04/01/21 17:52	4862600
7439-92-1	Lead	200.8	15 !	1.0	10	ug/L	---	04/01/21 17:52	4862600

Sampling Point: 105-DW-31

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	79	ug/L	---	04/01/21 17:54	4862601
7439-92-1	Lead	200.8	15 !	1.0	7.8	ug/L	---	04/01/21 17:54	4862601

Sampling Point: 105-DW-32

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	84	ug/L	---	04/01/21 17:57	4862602
7439-92-1	Lead	200.8	15 !	1.0	24	ug/L	---	04/01/21 17:57	4862602

Sampling Point: 105-DW-33

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	87	ug/L	---	04/01/21 17:59	4862603
7439-92-1	Lead	200.8	15 !	1.0	1.7	ug/L	---	04/01/21 17:59	4862603

Sampling Point: 105-DW-34

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	56	ug/L	---	04/01/21 18:02	4862604
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L	---	04/01/21 18:02	4862604

Sampling Point: 105-DW-35

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	73	ug/L	---	04/01/21 18:04	4862605
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 18:04	4862605

Sampling Point: 105-DW-36

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	72	ug/L	---	04/01/21 18:06	4862606
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 18:06	4862606

Sampling Point: 105-DW-37

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	66	ug/L	---	04/01/21 19:21	4862607
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 19:21	4862607

Sampling Point: 105-DW-38

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	71	ug/L	---	04/01/21 19:23	4862608
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 19:23	4862608

Sampling Point: 105-DW-39

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	51	ug/L	---	04/01/21 19:30	4862609
7439-92-1	Lead	200.8	15 !	1.0	7.7	ug/L	---	04/01/21 19:30	4862609

Sampling Point: 105-DW-40

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	58	ug/L	---	04/01/21 19:33	4862610
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 19:33	4862610

Sampling Point: 105-DW-41

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	41	ug/L	---	04/01/21 19:35	4862611
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	04/01/21 19:35	4862611

Sampling Point: 105-DW-42

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	110	ug/L	04/01/21 11:10	04/02/21 13:05	4862612
7439-92-1	Lead	200.8	15 !	1.0	2.3	ug/L	04/01/21 11:10	04/02/21 13:05	4862612

Sampling Point: 105-DW-43

PWS ID: Not Supplied

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
7440-50-8	Copper	200.8	1300 !	1.0	33	ug/L	---	04/01/21 19:37	4862613
7439-92-1	Lead	200.8	15 !	1.0	3.3	ug/L	---	04/01/21 19:37	4862613

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: $(MS \text{ or } MSD \text{ value} - \text{Sample value}) * 100 / \text{spike target} / \text{dilution factor} = \text{Recovery } \%$

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



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CHAIN OF CUSTODY RECORD

Page 1 of 4

Shaded area for EEA use only

REPORT TO: <u>mshaganahan@burnsmcd.com</u>		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME		
9400 Ward Parkway Kansas City, MO 64114		[Redacted]		N/A	MO	GFC	121244					
BILL TO: <u>same</u>		COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks					
				X	N/A	Municipal						
LAB Number	COLLECTION			SAMPLING SITE	TEST NAME	pH acceptable? <input type="checkbox"/>	Residual Chlorine (P/A)	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM PM					YES	NO			
1 <u>4862571</u>	<u>3-16-21</u>	<u>5:19</u>	<input checked="" type="checkbox"/>	<u>105-DW-01</u>	<u>Lead and Cops-</u>			<input checked="" type="checkbox"/>		<u>1</u>	<u>DW</u>	<u>SW</u>
2 <u>572</u>		<u>5:23</u>	<input checked="" type="checkbox"/>	<u>105-DW-02</u>								
3 <u>573</u>		<u>5:25</u>	<input checked="" type="checkbox"/>	<u>105-DW-03</u>								
4 <u>574</u>		<u>5:31</u>	<input checked="" type="checkbox"/>	<u>105-DW-04</u>								
5 <u>575</u>		<u>5:32</u>	<input checked="" type="checkbox"/>	<u>105-DW-05</u>								
6 <u>576</u>		<u>5:35</u>	<input checked="" type="checkbox"/>	<u>105-DW-06</u>								
7 <u>577</u>		<u>5:39</u>	<input checked="" type="checkbox"/>	<u>105-DW-07</u>								
8 <u>578</u>		<u>5:43</u>	<input checked="" type="checkbox"/>	<u>105-DW-08</u>								
9 <u>579</u>		<u>5:47</u>	<input checked="" type="checkbox"/>	<u>105-DW-09</u>								
10 <u>580</u>		<u>5:48</u>	<input checked="" type="checkbox"/>	<u>105-DW-10</u>								
11 <u>581</u>		<u>5:52</u>	<input checked="" type="checkbox"/>	<u>105-DW-11</u>								
12 <u>582</u>		<u>5:53</u>	<input checked="" type="checkbox"/>	<u>105-DW-12</u>								
13 <u>583</u>		<u>5:57</u>	<input checked="" type="checkbox"/>	<u>105-DW-13</u>								
14 <u>584</u>		<u>5:59</u>	<input checked="" type="checkbox"/>	<u>105-DW-14</u>								

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
[Redacted]	<u>3/24/21</u>	<u>1600</u>	[Redacted]			
		AM PM				
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> °C Upon Receipt _____ N/A
[Redacted]			[Redacted]	<u>03-26-2021</u>	<u>0930</u>	
		AM PM				

MATRIX CODES:
 DW-DRINKING WATER RW-REAGENT WATER GW- GROUND WATER EW-EXPOSURE WATER SW- SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES
 SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days)
 50% RW* = Rush Written: (5 working days) 75%
 * Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) IW* = 100%
 =Immediate Written: (3 working days) SP* = 125%
 Weekend, Holiday CALL
 STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
 06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15

Sample analysis will be provided according to the standard EEA Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

Page 15 of 18



Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 420998
Batch # 406972
513728

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CHAIN OF CUSTODY RECORD

Page 2 of 4

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REPORT TO: <u>mspanahan@burnsmcd.com</u> 9400 Ward Parkway Kansas City, MO 64114	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
		N/A	MO	GFC	121244

BILL TO: Same	COMPLIANCE / MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
			X	N/A	Municipal				

LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	pH acceptable? ✓	Residual Chlorine (PIA)	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM	PM					YES	NO			
1 <u>4862.585</u>	3-16-21	6:04	✓		105-DW-15	Lead and Copper			X		1	DW SW	
2 <u>586</u>		6:08	✓		105-DW-16								
3 <u>587</u>		6:11	✓		105-DW-17								
4 <u>588</u>		6:13	✓		105-DW-18								
5 <u>589</u>		6:17	✓		105-DW-19								
6 <u>590</u>		6:22	✓		105-DW-20								
7 <u>591</u>		6:29	✓		105-DW-21								
8 <u>592</u>		6:32	✓		105-DW-22								
9 <u>593</u>	3-17-21	7:47	✓		105-DW-23								
10 <u>594</u>		7:56	✓		105-DW-24								
11 <u>595</u>		8:01	✓		105-DW-25								
12 <u>596</u>		8:01	✓		105-DW-26								
13 <u>597</u>		8:05	✓		105-DW-27								
14 <u>598</u>		8:08	✓		105-DW-28								

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
	3/24/21	11:00 AM				
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one): <input type="checkbox"/> Iced/Wet/Blue <input checked="" type="checkbox"/> Ambient °C Upon Receipt _____ N/A
				03-20-2021	0930 AM	

MATRIX CODES:
 DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES
 SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days)
 50% RW* = Rush Written: (5 working days) 75%
 * Please call, expedited service not available for all testing

IV* = Immediate Verbal: (3 working days) IW* = Immediate Written: (3 working days) SP* = Weekend, Holiday
 STAT* = Less than 48 hours

100%
125%
CALL
CALL

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 06-LC-F0435 Issue 8.0 Effective Date: 2020-05-15

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ppw
03/24/21
Order # 420998
Batch # 406992
513728

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CHAIN OF CUSTODY RECORD

Page 3 of 4

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REPORT TO: <u>mspanahan@burnsmcd.com</u>		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
9400 Ward Parkway Kansas City, MO 64114		[Redacted]		N/A	MO	GFC	121244			
BILL TO: Same		COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER	Preservative Checks	CHLORINATED	YES	NO
				X	N/A	Municipal				
LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	pH acceptable? <input checked="" type="checkbox"/>	Residual Chlorine (P/A)	CHLORINATED	
	DATE	TIME	AM	PM					YES	NO
1	4862599	3-17-21	8:12	✓	105-DW-29	Lead and Copper			X	
2	600		8:18	✓	105-DW-30					
3	601		8:21	✓	105-DW-31					
4	602		8:26	✓	105-DW-32					
5	603		8:44	✓	105-DW-33					
6	604		8:47	✓	105-DW-34					
7	605		8:57	✓	105-DW-35					
8	606		9:00	✓	105-DW-36					
9	607		9:10	✓	105-DW-37					
10	608		9:10	✓	105-DW-38					
11	609		9:15	✓	105-DW-39					
12	610		9:20	✓	105-DW-40					
13	611		9:25	✓	105-DW-41					
14	612		9:35	✓	105-DW-42					

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
[Redacted]	3/24/21	1600	[Redacted]			
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
[Redacted]						
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	CONDITIONS UPON RECEIPT (check one):
[Redacted]			[Redacted]	03-26-2021	0930	<input checked="" type="checkbox"/> Iced: Wet/Blue <input type="checkbox"/> Ambient <input type="checkbox"/> °C Upon Receipt <input type="checkbox"/> N/A

MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75% * Please call, expedited service not available for all testing	IV* = Immediate Verbal: (3 working days) IW* = Immediate Written: (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours	100% 125% CALL CALL	Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. 06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15
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Page 17 of 18



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new
03/26/21
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Batch # 406972
513728

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CHAIN OF CUSTODY RECORD

Page 4 of 4

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REPORT TO: <u>mshaganahan@burnsmcd.com</u>		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME			
9400 Ward Parkway Kansas City, MO 64114		[Redacted]		N/A	MO	GFC	121244						
BILL TO: Same		COMPLIANCE MONITORING	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	POPULATION SERVED	SOURCE WATER	Preservative Checks						
					N/A	Municipal							
LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	pH acceptable? <input type="checkbox"/>	Residual Chlorine (P/A)	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM	PM					YES	NO			
1 <u>4862613</u>	<u>3-17-21</u>	<u>937</u>	<input checked="" type="checkbox"/>		<u>105-DW-43</u>	<u>Lead and Copper</u>			<input checked="" type="checkbox"/>		<u>1 DW</u>	<u>Stw</u>	
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
[Redacted]	<u>3/24/21</u>	<u>1100</u>	[Redacted]			
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> °C Upon Receipt _____ N/A
[Redacted]			[Redacted]	<u>03-26-2021</u>	<u>0930</u>	

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100% CALL
 125% CALL
 CALL

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