



October 26, 2020
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. #104 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 #104 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. #104 was conducted on September 18, 2020 by Emily Ahlemeyer 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
 October 26, 2020
 Page 2

Drinking water sampling for the presence of lead and copper was conducted at fifteen (15) distinct locations within Building #104. A total of seventeen (17) 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	<1.0 µg/L	15 µg/L
Copper	20 µg/L	150 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

All samples were below the Action Level (AL) for lead.

Copper

All samples were below the AL for copper.

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



Diane Czarnecki
Facilities Management Division
October 26, 2020
Page 3

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 #104 ranged from 8.52 to 9.48 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

Goodfellow Federal Center - Building 104											
Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	MRL	Dil Factor	Above/Below	AL
104-DW-01	2nd floor, column D43, break room	9.16	22.1	Sink	Copper Lead	90 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-02	2nd floor, column C45, break room	9.16	21.8	Sink	Copper Lead	150 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-03	Duplicate of 104-DW-02	9.16	21.8	Sink D	Copper Lead	140 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-04	2nd floor, column F50, break room	9.23	23.2	Sink	Copper Lead	86 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-05	2nd floor, column F50, break room	8.52	23.1	Ice Machine	Copper Lead	150 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-06	2nd floor, column B43, bottle filler	8.72	18.6	DF	Copper Lead	35 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-07	2nd floor, column B31, break room	9.30	19.7	Sink	Copper Lead	49 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-08	2nd floor, column B31, hallway	9.36	18.7	L DF	Copper Lead	79 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-09	2nd floor, column B31, hallway	9.45	17.0	R DF	Copper Lead	40 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-10	2nd floor, column D24, break room	9.48	19.0	Sink	Copper Lead	98 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-11	2nd floor, column B19, break room	9.31	20.3	Sink	Copper Lead	37 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-12	Duplicate of 104-DW-11	9.31	20.3	Sink D	Copper Lead	36 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-13	2nd floor, column B19, break room	9.33	20.5	DF	Copper Lead	47 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-14	2nd floor, column B19, break room	9.29	21.4	Ice Machine	Copper Lead	20 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15
104-DW-15	2nd floor, N hall entrance	9.37	16.1	DF	Copper Lead	49 < 1.0	µg/L µg/L	1.0 1.0	1 1	Below Below	1300 15

Appendix A
Results Summary by Location

Goodfellow Federal Center - Building 104											
Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	MRL	Dil Factor	Above/Below	AL
104-DW-16	1st floor, N hallway near restrooms	9.30	16.1	DF	Copper	100	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
104-DW-17	1st floor, column F9, break room	8.54	18.9	Sink	Copper	100	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15

Notes:

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

MRL - Method Reporting Limit

Dil - Dilution

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.

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

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
 2604 NE Industrial Drive
 Suite 230
 North Kansas City, MO 64117

Report: 499153
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4733496	104-DW-01	200.8	09/18/20 06:17	Client	09/24/20 08:45
4733497	104-DW-02	200.8	09/18/20 06:20	Client	09/24/20 08:45
4733498	104-DW-03	200.8	09/18/20 06:20	Client	09/24/20 08:45
4733499	104-DW-04	200.8	09/18/20 06:24	Client	09/24/20 08:45
4733500	104-DW-05	200.8	09/18/20 06:26	Client	09/24/20 08:45
4733501	104-DW-06	200.8	09/18/20 06:30	Client	09/24/20 08:45
4733502	104-DW-07	200.8	09/18/20 06:38	Client	09/24/20 08:45
4733503	104-DW-08	200.8	09/18/20 06:40	Client	09/24/20 08:45
4733504	104-DW-09	200.8	09/18/20 06:42	Client	09/24/20 08:45
4733505	104-DW-10	200.8	09/18/20 06:45	Client	09/24/20 08:45
4733506	104-DW-11	200.8	09/18/20 06:54	Client	09/24/20 08:45
4733507	104-DW-12	200.8	09/18/20 06:54	Client	09/24/20 08:45
4733508	104-DW-13	200.8	09/18/20 06:58	Client	09/24/20 08:45
4733509	104-DW-14	200.8	09/18/20 07:01	Client	09/24/20 08:45
4733510	104-DW-15	200.8	09/18/20 07:04	Client	09/24/20 08:45
4733511	104-DW-16	200.8	09/18/20 07:09	Client	09/24/20 08:45
4733512	104-DW-17	200.8	09/18/20 07:12	Client	09/24/20 08:45

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)



10/19/2020

Authorized Signature

Title

Date

Client Name: Burns & McDonnell Engineers

Report #: 499153

Sampling Point: 104-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	90	ug/L	---	10/01/20 13:21	4733496
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:21	4733496

Sampling Point: 104-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	150	ug/L	---	10/01/20 13:25	4733497
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:25	4733497

Sampling Point: 104-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	140	ug/L	---	10/01/20 13:28	4733498
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:28	4733498

Sampling Point: 104-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	86	ug/L	---	10/01/20 13:31	4733499
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:31	4733499

Sampling Point: 104-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	150	ug/L	---	10/01/20 13:34	4733500
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:34	4733500

Sampling Point: 104-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	35	ug/L	---	10/01/20 13:37	4733501
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:37	4733501

Sampling Point: 104-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	49	ug/L	---	10/01/20 13:40	4733502
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:40	4733502

Sampling Point: 104-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	79	ug/L	---	10/01/20 13:43	4733503
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:43	4733503

Sampling Point: 104-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	40	ug/L	---	10/01/20 13:58	4733504
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 13:58	4733504

Sampling Point: 104-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	98	ug/L	---	10/01/20 14:01	4733505
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:01	4733505

Sampling Point: 104-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	37	ug/L	---	10/01/20 14:04	4733506
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:04	4733506

Sampling Point: 104-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	36	ug/L	---	10/01/20 14:13	4733507
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:13	4733507

Sampling Point: 104-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	47	ug/L	---	10/01/20 14:16	4733508
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:16	4733508

Sampling Point: 104-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	20	ug/L	---	10/01/20 14:19	4733509
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:19	4733509

Sampling Point: 104-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	49	ug/L	---	10/01/20 14:22	4733510
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:22	4733510

Sampling Point: 104-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	100	ug/L	---	10/01/20 14:24	4733511
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:24	4733511

Sampling Point: 104-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	100	ug/L	---	10/01/20 14:27	4733512
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/20 14:27	4733512

† 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.



Eaton Analytical

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

Order # 406912
Batch # 499153

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

Page 1 of 2

REPORT TO: msnaganan@burnsmid.com (Signature)

COMPLIANCE MONITORING

STATE (sample origin)

PROJECT NAME

PO#

MATRIX CODE

BILL TO: Same

Yes

No

POPULATION SERVED

SOURCE WATER

Preservative Checks

CHLORINATED

OF CONTAINERS

LAB Number	COLLECTION		DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	PWS ID #	STATE (sample origin)	PROJECT NAME	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME										YES	NO			

1	4733	496	9/18/20	0617	X		104-DW-01	Lead and Copper	N/A	MO	GFC			1	DW SW	
2		497		0620	X		104-DW-02							1		
3		498		0620	X		104-DW-03							1		
4		499		0624	X		104-DW-04							1		
5		500		0626	X		104-DW-05							1		
6		501		0636	X		104-DW-06							1		
7		502		0638	X		104-DW-07							1		
8		503		0640	X		104-DW-08							1		
9		504		0642	X		104-DW-09							1		
10		505		0645	X		104-DW-10							1		
11		506		0654	X		104-DW-11							1		
12		507		0654	X		104-DW-12							1		
13		508		0658	X		104-DW-13							1		
14		509		0701	X		104-DW-14							1		

RELINQUISHED BY: (Signature) [Signature] DATE 9/22/20 TIME 1600

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RELINQUISHED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RELINQUISHED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RELINQUISHED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

RECEIVED BY: (Signature) _____ DATE _____ TIME _____

CONDITIONS UPON RECEIPT (check one):
 Ambient Wet/Blue Ice *c Upon Receipt N/A

LAB COMMENTS

LAB COMMENTS

LAB COMMENTS

Matrix Codes:
 DW DRINKING WATER RW-REAGENT WATER GW-
 GROUND WATER LW-EXPOSURE WATER SW-
 SURFACE WATER PW-POOL WATER
 WW WASTE WATER

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

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



Eaton Analytical

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

Order # 406972
 Batch # _____

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

Page 2 of 2

REPORT TO: msn@eaton.com SAMPLER (Signature)

BILL TO: 1400 Ward Parkway
Kansas City, MO 64114

same

COMPLIANCE / MONITORING



YES

NO

X

LAB Number

COLLECTION

DATE

TIME

AM

PM

X

X

X

PWS ID #

N/A

POPULATION SERVED

Municipal

STATE (sample origin)

MO

SOURCE WATER

Municipal

PROJECT NAME

GFC

PO#

121244

Residual Chlorine (P/A)

pH acceptable ✓

Preservative Checks

CHLORINATED

YES

NO

X

X

X

MATRIX CODE

DW SW

OF CONTAINERS

1

1

1

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

RECEIVED BY: (Signature)

DATE

TIME

AM

PM

1000

9/22/20

RECEIVED BY: (Signature)

DATE

TIME

AM

PM

RECEIVED FOR LABORATORY BY:

DATE

TIME

AM

PM

CONDITIONS UPON RECEIPT (check one):

Ice: _____

WaterBlue _____

Ambient _____

°C Upon Receipt _____

N/A