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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.

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*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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

Revision date: 03/14/2019

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South Bend, IN 46617
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Laboratory Report

Client: City of Benton Harbor

Attn: Michael O'Malley
200 East Wall Street
Benton Harbor, MI 49002

Report: 485377
Priority: Standard Written
Status: Final
PWS ID: MI600

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4624126	rpb1 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624127	rpb2 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624128	rpb3 Sample 1st	200.8	05/07/20 08:45	Client	05/11/20 10:55
4624129	rpb4 Sample 1st	200.8	05/06/20 21:20	Client	05/11/20 10:55
4624130	rpb5 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624131	rpb6 Sample 1st	200.8	05/08/20 08:30	Client	05/11/20 10:55
4624132	rpb7 Sample 1st	200.8	05/07/20 06:45	Client	05/11/20 10:55
4624133	rpb8 Sample 1st	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624134	rpb9 Sample 1st	200.8	05/07/20 09:37	Client	05/11/20 10:55
4624135	rpb10 Sample 1st	200.8	05/07/20 10:43	Client	05/11/20 10:55
4624136	rpb11 Sample 1st	200.8	05/07/20 06:40	Client	05/11/20 10:55
4624137	rpb12 Sample 1st	200.8	05/07/20 07:40	Client	05/11/20 10:55
4624138	rpb13 Sample 1st	200.8	05/07/20 07:20	Client	05/11/20 10:55
4624139	rpb15 Sample 1st	200.8	05/07/20 06:00	Client	05/11/20 10:55
4624140	rpb16 Sample 1st	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624141	rpb17 Sample 1st	200.8	05/07/20 07:45	Client	05/11/20 10:55
4624142	rpb18 Sample 1st	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624143	rpb19 Sample 1st	200.8	05/05/20 14:30	Client	05/11/20 10:55
4624144	rpb20 Sample 1st	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624145	rpb21 Sample 1st	200.8	05/08/20 16:14	Client	05/11/20 10:55
4624146	rpb1 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624147	rpb2 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624148	rpb3 Sample 5th	200.8	05/07/20 08:45	Client	05/11/20 10:55
4624149	rpb4 Sample 5th	200.8	05/06/20 21:20	Client	05/11/20 10:55
4624150	rpb5 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624151	rpb6 Sample 5th	200.8	05/08/20 08:30	Client	05/11/20 10:55
4624152	rpb7 Sample 5th	200.8	05/07/20 06:45	Client	05/11/20 10:55
4624153	rpb8 Sample 5th	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624154	rpb9 Sample 5th	200.8	05/07/20 09:37	Client	05/11/20 10:55
4624155	rpb10 Sample 5th	200.8	05/07/20 10:43	Client	05/11/20 10:55
4624156	rpb11 Sample 5th	200.8	05/07/20 06:40	Client	05/11/20 10:55

4624157	rpb12 Sample 5th	200.8	05/07/20 07:40	Client	05/11/20 10:55
4624158	rpb13 Sample 5th	200.8	05/07/20 07:20	Client	05/11/20 10:55
4624159	rpb15 Sample 5th	200.8	05/07/20 06:00	Client	05/11/20 10:55
4624160	rpb16 Sample 5th	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624161	rpb17 Sample 5th	200.8	05/07/20 07:45	Client	05/11/20 10:55
4624162	rpb18 Sample 5th	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624163	rpb19 Sample 5th	200.8	05/05/20 14:30	Client	05/11/20 10:55
4624164	rpb20 Sample 5th	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624165	rpb211 Sample 5th	200.8	05/08/20 04:14	Client	05/11/20 10:55

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.

Pat Muff ASM 05/26/2020

Authorized Signature Title Date

Client Name: City of Benton Harbor
Report #: 485377

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb1 Sample 1st PWS ID: MI600

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	**9.4**	ug/L	---	05/21/20 11:41	4624126
7439-92-1	Lead	200.8	15 !	1.0	**1.1**	ug/L	---	05/21/20 11:41	4624126

Sampling Point: rpb2 Sample 1st PWS ID: MI600

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	< 1.0	ug/L	---	05/21/20 11:44	4624127
7439-92-1	Lead	200.8	15 !	1.0	**1.1**	ug/L	---	05/21/20 11:44	4624127

Sampling Point: rpb3 Sample 1st PWS ID: MI600

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	---	05/21/20 11:51	4624128
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 11:51	4624128

Sampling Point: rpb4 Sample 1st PWS ID: MI600

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	**13**	ug/L	---	05/21/20 11:53	4624129
7439-92-1	Lead	200.8	15 !	1.0	**1.8**	ug/L	---	05/21/20 11:53	4624129

Sampling Point: rpb5 Sample 1st PWS ID: MI600

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	**8.7**	ug/L	---	05/21/20 11:55	4624130
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 11:55	4624130

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb6 Sample 1st PWS ID: MI600

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	**1.7**	ug/L	---	05/21/20 11:58	4624131
7439-92-1	Lead	200.8	15 !	1.0	**2.4**	ug/L	---	05/21/20 11:58	4624131

Sampling Point: rpb7 Sample 1st PWS ID: MI600

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	---	05/21/20 12:00	4624132
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:00	4624132

Sampling Point: rpb8 Sample 1st PWS ID: MI600

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	**4.4**	ug/L	---	05/21/20 12:03	4624133
7439-92-1	Lead	200.8	15 !	1.0	**21**	ug/L	---	05/21/20 12:03	4624133

Sampling Point: rpb9 Sample 1st PWS ID: MI600

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	**1.1**	ug/L	---	05/21/20 12:05	4624134
7439-92-1	Lead	200.8	15 !	1.0	**3.6**	ug/L	---	05/21/20 12:05	4624134

Sampling Point: rpb10 Sample 1st PWS ID: MI600

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	**2.3**	ug/L	---	05/21/20 12:07	4624135
7439-92-1	Lead	200.8	15 !	1.0	**5.7**	ug/L	---	05/21/20 12:07	4624135

Sampling Point: rpb11 Sample 1st PWS ID: MI600

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	**2.0**	ug/L	---	05/21/20 12:15	4624136
7439-92-1	Lead	200.8	15 !	1.0	**9.2**	ug/L	---	05/21/20 12:15	4624136

Sampling Point: rpb12 Sample 1st PWS ID: MI600

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	**6.4**	ug/L	---	05/21/20 12:17	4624137
7439-92-1	Lead	200.8	15 !	1.0	**8.5**	ug/L	---	05/21/20 12:17	4624137

Sampling Point: rpb13 Sample 1st PWS ID: MI600

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	**4.1**	ug/L	---	05/21/20 12:24	4624138
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:24	4624138

Sampling Point: rpb15 Sample 1st PWS ID: MI600

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	**48**	ug/L	---	05/21/20 12:26	4624139
7439-92-1	Lead	200.8	15 !	1.0	**6.2**	ug/L	---	05/21/20 12:26	4624139

Sampling Point: rpb16 Sample 1st PWS ID: MI600

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	**1.7**	ug/L	---	05/21/20 12:29	4624140
7439-92-1	Lead	200.8	15 !	1.0	**2.4**	ug/L	---	05/21/20 12:29	4624140

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb17 Sample 1st PWS ID: MI600

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	**1.4**	ug/L	---	05/21/20 12:31	4624141
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:31	4624141

Sampling Point: rpb18 Sample 1st PWS ID: MI600

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	**1.2**	ug/L	---	05/21/20 12:33	4624142
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:33	4624142

Sampling Point: rpb19 Sample 1st PWS ID: MI600

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	**2.2**	ug/L	---	05/21/20 12:36	4624143
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:36	4624143

Sampling Point: rpb20 Sample 1st PWS ID: MI600

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	**5.4**	ug/L	---	05/21/20 12:38	4624144
7439-92-1	Lead	200.8	15 !	1.0	**100**	ug/L	---	05/21/20 12:38	4624144

Sampling Point: rpb21 Sample 1st PWS ID: MI600

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	---	05/21/20 12:41	4624145
7439-92-1	Lead	200.8	15 !	1.0	**3.5**	ug/L	---	05/21/20 12:41	4624145

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb1 Sample 5th PWS ID: MI600

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	**2.5**	ug/L	---	05/21/20 12:53	4624146
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 12:53	4624146

Sampling Point: rpb2 Sample 5th PWS ID: MI600

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	< 1.0	ug/L	---	05/21/20 12:55	4624147
7439-92-1	Lead	200.8	15 !	1.0	**2.0**	ug/L	---	05/21/20 12:55	4624147

Sampling Point: rpb3 Sample 5th PWS ID: MI600

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	**9.6**	ug/L	---	05/21/20 13:02	4624148
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:02	4624148

Sampling Point: rpb4 Sample 5th PWS ID: MI600

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	**2.6**	ug/L	---	05/21/20 13:04	4624149
7439-92-1	Lead	200.8	15 !	1.0	**3.4**	ug/L	---	05/21/20 13:04	4624149

Sampling Point: rpb5 Sample 5th PWS ID: MI600

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	**8.3**	ug/L	---	05/21/20 13:07	4624150
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:07	4624150

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb6 Sample 5th PWS ID: MI600

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	**1.2**	ug/L	---	05/21/20 13:09	4624151
7439-92-1	Lead	200.8	15 !	1.0	**1.3**	ug/L	---	05/21/20 13:09	4624151

Sampling Point: rpb7 Sample 5th PWS ID: MI600

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	**1.1**	ug/L	---	05/21/20 13:12	4624152
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:12	4624152

Sampling Point: rpb8 Sample 5th PWS ID: MI600

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	**1.5**	ug/L	---	05/21/20 13:14	4624153
7439-92-1	Lead	200.8	15 !	1.0	**4.2**	ug/L	---	05/21/20 13:14	4624153

Sampling Point: rpb9 Sample 5th PWS ID: MI600

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	**4.4**	ug/L	---	05/21/20 13:16	4624154
7439-92-1	Lead	200.8	15 !	1.0	**7.9**	ug/L	---	05/21/20 13:16	4624154

Sampling Point: rpb10 Sample 5th PWS ID: MI600

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	**2.0**	ug/L	---	05/21/20 13:19	4624155
7439-92-1	Lead	200.8	15 !	1.0	**14**	ug/L	---	05/21/20 13:19	4624155

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb11 Sample 5th PWS ID: MI600

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	**2.6**	ug/L	---	05/21/20 13:26	4624156
7439-92-1	Lead	200.8	15 !	1.0	**23**	ug/L	---	05/21/20 13:26	4624156

Sampling Point: rpb12 Sample 5th PWS ID: MI600

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	**1.4**	ug/L	---	05/21/20 13:28	4624157
7439-92-1	Lead	200.8	15 !	1.0	**5.3**	ug/L	---	05/21/20 13:28	4624157

Sampling Point: rpb13 Sample 5th PWS ID: MI600

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	**1.7**	ug/L	---	05/21/20 13:35	4624158
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:35	4624158

Sampling Point: rpb15 Sample 5th PWS ID: MI600

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	**50**	ug/L	---	05/21/20 13:38	4624159
7439-92-1	Lead	200.8	15 !	1.0	**4.3**	ug/L	---	05/21/20 13:38	4624159

Sampling Point: rpb16 Sample 5th PWS ID: MI600

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	**1.1**	ug/L	---	05/21/20 13:40	4624160
7439-92-1	Lead	200.8	15 !	1.0	**1.3**	ug/L	---	05/21/20 13:40	4624160

Client Name: City of Benton Harbor Report #: 485377

Sampling Point: rpb17 Sample 5th PWS ID: MI600

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	**5.1**	ug/L	---	05/21/20 13:42	4624161
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:42	4624161

Sampling Point: rpb18 Sample 5th PWS ID: MI600

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	**1.8**	ug/L	---	05/21/20 13:45	4624162
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:45	4624162

Sampling Point: rpb19 Sample 5th PWS ID: MI600

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	**1.3**	ug/L	---	05/21/20 13:47	4624163
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/21/20 13:47	4624163

Sampling Point: rpb20 Sample 5th PWS ID: MI600

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	**1.0**	ug/L	---	05/21/20 13:50	4624164
7439-92-1	Lead	200.8	15 !	1.0	**5.3**	ug/L	---	05/21/20 13:50	4624164

Sampling Point: rpb211 Sample 5th PWS ID: MI600

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	---	05/21/20 13:52	4624165
7439-92-1	Lead	200.8	15 !	1.0	**1.4**	ug/L	---	05/21/20 13:52	4624165

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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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F: 1.574.233.8207

Order # 395853
Batch # 485377

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CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley	600	MI	Lead Copper RPB 2nd round May 5 to May 8 2020	S05112
BILL TO: Momalley@cityofbentonharbormi.gov awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes / No = Yes	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 4102426	5/6/20	6:28 PM		x	rpb1 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
2 127	5/6/20	6:28 PM		x	rpb2 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
3 128	5/7/20	8:45 AM		x	rpb3 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
4 129	5/6/20	9:20 PM		x	rpb4 sample 1st; sample 5th*	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
5 130	5/6/20	6:28 PM		x	rpb5 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
6 131	5/8/20	8:30 AM	x		rpb6 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
7 132	5/7/20	6:45 AM	x		rpb7 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
8 133	5/7/20	8:00 AM	x		rpb8 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
9 134	5/7/20	9:37 AM	x		rpb9 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
10 135	5/7/20	10:43 AM	x		rpb10 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
11 136	5/7/20	6:40 AM	x		rpb11 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
12 137	5/7/20	7:40 AM	x		rpb12 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
13 138	5/7/20	7:20 AM	x		rpb13 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
14 139	5/7/20	6:00 AM	x		rpb15 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	7:00 AM/PM		5/11/20	10:55 AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	10:55 AM/PM			AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM/PM	5-11-2020		1055 AM/PM

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

LAB COMMENTS
* Bottle has RPB5 5th draw. Sample 05112020 was in the bag with RPB4 (1ST) KD
We will use RPB4 for PM 05112020 KD

CONDITIONS UPON RECEIPT (check one):
___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Order # _____

Batch # _____

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CHAIN OF CUSTODY RECORD

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley	600	MI	Lead Copper RPB 2nd round May 5 to May 8 2020	S05112
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes / No = Yes	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 410240	5/7/20	7:00 AM	x		rpb16 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
2 141	5/7/20	7:45 AM	x		rpb17 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
3 142	5/7/20	8:00 AM	x		rpb18 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
4 143	5/5/20	2:30 PM		x	rpb19 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
5 144	5/7/20	7:00 AM	x		rpb20 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
6 145	5/8/20	4:14 AM		x	rpb21 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	7:00 AM/PM		5/11/20	10:55 AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	10:55 AM/PM			AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM/PM		5-11-2020	1055 AM/PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):

___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

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CHAIN OF CUSTODY RECORD

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley	600	MI	Lead Copper RPB 2nd round May 5 to May 8 2020	S05112
BILL TO: Momalley@cityofbentonharbormi.gov awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes / No = Yes	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	410241 46	5/6/20	6:28 PM		x	rpb1 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
2	147	5/6/20	6:28 PM		x	rpb2 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
3	148	5/7/20	8:45 AM		x	rpb3 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
4	149	5/6/20	9:20 PM		x	rpb4 sample 1st; sample 5th*	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
5	150	5/6/20	6:28 PM		x	rpb5 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
6	151	5/8/20	8:30 AM	x		rpb6 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
7	152	5/7/20	6:45 AM	x		rpb7 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
8	153	5/7/20	8:00 AM	x		rpb8 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
9	154	5/7/20	9:37 AM	x		rpb9 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
10	155	5/7/20	10:43 AM	x		rpb10 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
11	156	5/7/20	6:40 AM	x		rpb11 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
12	157	5/7/20	7:40 AM	x		rpb12 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
13	158	5/7/20	7:20 AM	x		rpb13 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW
14	159	5/7/20	6:00 AM	x		rpb15 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	7:00 AM/PM		5/11/20	10:55 AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/11/20	10:55 AM/PM			AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM/PM		5-11-2020	1055 AM/PM

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

LAB COMMENTS
* Bottle has RPB5 5th draw, Sample 05112020 was in the bag with RPB4 (1st) KP
we will use RPB4 for PM 05112020 KP

CONDITIONS UPON RECEIPT (check one):
___ Iced: Wet/Blue ___X Ambient ___ °C Upon Receipt___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
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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%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

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CHAIN OF CUSTODY RECORD

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley	600	MI	Lead Copper RPB 2nd round May 5 to May 8 2020	S05112
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes / No = Yes	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 41624 1600	5/7/20	7:00 AM	x		rpb16 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
2 1601	5/7/20	7:45 AM	x		rpb17 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
3 1602	5/7/20	8:00 AM	x		rpb18 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
4 1603	5/5/20	2:30 PM		x	rpb19 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
5 1604	5/7/20	7:00 AM	x		rpb20 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
6 1605	5/8/20	4:14 AM		x	rpb21 sample 1st; sample 5th	Lead and Copper 1st draw and 5th Draw		Yes		2	SW	$W
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED BY:(Signature)	DATE	TIME AM/PM
	5/11/20	10 AM		5/11/20	10:55 AM
RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED BY:(Signature)	DATE	TIME AM/PM
	5/11/20	10:55 AM			
RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED FOR LABORATORY BY:	DATE	TIME AM/PM
				5-11-2020	1055

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):

___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
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SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

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SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

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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.

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*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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

Revision date: 03/14/2019

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

Laboratory Report

Client: Benton Harbor, City of

Attn: Michael O'Malley
200 East Wall Street
Benton Harbor, MI 49002

Report: 486115
Priority: Standard Written
Status: Final
PWS ID: MI600

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4629473	RPC 1 Sample 1st Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629474	RPC 2 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629475	RPC 3 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629476	RPC 4 Sample 1st Draw	200.8	05/13/20 16:00	Client	05/18/20 13:50
4629477	RPC 5 Sample 1st Draw	200.8	05/13/20 22:00	Client	05/18/20 13:50
4629478	RPC 6 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629479	RPC 7 Sample 1st Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629480	RPC 8 Sample 1st Draw	200.8	05/14/20 06:30	Client	05/18/20 13:50
4629481	RPC 9 Sample 1st Draw	200.8	05/14/20 04:00	Client	05/18/20 13:50
4629482	RPC 10 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629483	RPC 11 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629484	RPC 12 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629485	RPC 13 Sample 1st Draw	200.8	05/13/20 21:30	Client	05/18/20 13:50
4629486	RPC 14 Sample 1st Draw	200.8	05/14/20 07:30	Client	05/18/20 13:50
4629487	RPC 15 Sample 1st Draw	200.8	05/13/20 07:05	Client	05/18/20 13:50
4629488	RPC 16 Sample 1st Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629489	RPC 17 Sample 1st Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629490	RPC 1 Sample 5th Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629491	RPC 2 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629492	RPC 3 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629493	RPC 4 Sample 5th Draw	200.8	05/13/20 16:00	Client	05/18/20 13:50
4629494	RPC 5 Sample 5th Draw	200.8	05/13/20 22:00	Client	05/18/20 13:50
4629495	RPC 6 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629496	RPC 7 Sample 5th Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629497	RPC 8 Sample 5th Draw	200.8	05/14/20 06:30	Client	05/18/20 13:50
4629498	RPC 9 Sample 5th Draw	200.8	05/14/20 04:00	Client	05/18/20 13:50
4629499	RPC 10 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629500	RPC 11 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629501	RPC 12 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629502	RPC 13 Sample 5th Draw	200.8	05/13/20 21:30	Client	05/18/20 13:50
4629503	RPC 14 Sample 5th Draw	200.8	05/14/20 07:30	Client	05/18/20 13:50

4629504	RPC 15 Sample 5th Draw	200.8	05/13/20 07:05	Client	05/18/20 13:50
4629505	RPC 16 Sample 5th Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629506	RPC 17 Sample 5th Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50

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.

Pat Muff ASM 05/29/2020

Authorized Signature Title Date

Client Name: Benton Harbor, City of Report #: 486115

Sampling Point: RPC 1 Sample 1st Draw PWS ID: MI600

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	**10**	ug/L	---	05/26/20 15:26	4629473
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 15:26	4629473

Sampling Point: RPC 2 Sample 1st Draw PWS ID: MI600

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	**2.1**	ug/L	---	05/26/20 15:28	4629474
7439-92-1	Lead	200.8	15 !	1.0	**2.4**	ug/L	---	05/26/20 15:28	4629474

Sampling Point: RPC 3 Sample 1st Draw PWS ID: MI600

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	**2.6**	ug/L	---	05/26/20 15:31	4629475
7439-92-1	Lead	200.8	15 !	1.0	**1.5**	ug/L	---	05/26/20 15:31	4629475

Sampling Point: RPC 4 Sample 1st Draw PWS ID: MI600

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	**4.4**	ug/L	---	05/26/20 15:34	4629476
7439-92-1	Lead	200.8	15 !	1.0	**29**	ug/L	---	05/26/20 15:34	4629476

Sampling Point: RPC 5 Sample 1st Draw PWS ID: MI600

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	---	05/26/20 15:37	4629477
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 15:37	4629477

Client Name: Benton Harbor, City of Report #: 486115

Sampling Point: RPC 6 Sample 1st Draw PWS ID: MI600

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	05/21/20 09:55	05/22/20 12:47	4629478
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	05/21/20 09:55	05/22/20 12:47	4629478

Sampling Point: RPC 7 Sample 1st Draw PWS ID: MI600

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	**2.5**	ug/L	---	05/26/20 15:39	4629479
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 15:39	4629479

Sampling Point: RPC 8 Sample 1st Draw PWS ID: MI600

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	**9.1**	ug/L	---	05/26/20 15:48	4629480
7439-92-1	Lead	200.8	15 !	1.0	**1.5**	ug/L	---	05/26/20 15:48	4629480

Sampling Point: RPC 9 Sample 1st Draw PWS ID: MI600

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	**7.3**	ug/L	---	05/26/20 15:56	4629481
7439-92-1	Lead	200.8	15 !	1.0	**22**	ug/L	---	05/26/20 15:56	4629481

Sampling Point: RPC 10 Sample 1st Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/26/20 15:59	4629482
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 15:59	4629482

Client Name: Benton Harbor, City of Report #: 486115

Sampling Point: RPC 11 Sample 1st Draw PWS ID: MI600

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	**7.8**	ug/L	---	05/26/20 16:01	4629483
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:01	4629483

Sampling Point: RPC 12 Sample 1st Draw PWS ID: MI600

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	**5.0**	ug/L	---	05/26/20 16:04	4629484
7439-92-1	Lead	200.8	15 !	1.0	**2.2**	ug/L	---	05/26/20 16:04	4629484

Sampling Point: RPC 13 Sample 1st Draw PWS ID: MI600

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	**1.1**	ug/L	---	05/26/20 16:07	4629485
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:07	4629485

Sampling Point: RPC 14 Sample 1st Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/26/20 16:10	4629486
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:10	4629486

Sampling Point: RPC 15 Sample 1st Draw PWS ID: MI600

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	---	05/26/20 16:12	4629487
7439-92-1	Lead	200.8	15 !	1.0	**1.4**	ug/L	---	05/26/20 16:12	4629487

Sampling Point: RPC 16 Sample 1st Draw PWS ID: MI600

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	**3.7**	ug/L	---	05/26/20 16:15	4629488
7439-92-1	Lead	200.8	15 !	1.0	**44**	ug/L	---	05/26/20 16:15	4629488

Sampling Point: RPC 17 Sample 1st Draw PWS ID: MI600

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	**2.9**	ug/L	---	05/26/20 16:18	4629489
7439-92-1	Lead	200.8	15 !	1.0	**6.4**	ug/L	---	05/26/20 16:18	4629489

Sampling Point: RPC 1 Sample 5th Draw PWS ID: MI600

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	**2.0**	ug/L	---	05/26/20 16:32	4629490
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:32	4629490

Sampling Point: RPC 2 Sample 5th Draw PWS ID: MI600

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	**1.6**	ug/L	---	05/26/20 16:40	4629491
7439-92-1	Lead	200.8	15 !	1.0	**2.0**	ug/L	---	05/26/20 16:40	4629491

Sampling Point: RPC 3 Sample 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/26/20 16:43	4629492
7439-92-1	Lead	200.8	15 !	1.0	**1.5**	ug/L	---	05/26/20 16:43	4629492

Sampling Point: RPC 4 Sample 5th Draw PWS ID: MI600

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	**1.6**	ug/L	---	05/26/20 16:45	4629493
7439-92-1	Lead	200.8	15 !	1.0	**11**	ug/L	---	05/26/20 16:45	4629493

Sampling Point: RPC 5 Sample 5th Draw PWS ID: MI600

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	**2.9**	ug/L	---	05/26/20 16:48	4629494
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:48	4629494

Sampling Point: RPC 6 Sample 5th Draw PWS ID: MI600

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	---	05/26/20 16:51	4629495
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:51	4629495

Sampling Point: RPC 7 Sample 5th Draw PWS ID: MI600

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	**2.8**	ug/L	---	05/26/20 16:54	4629496
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:54	4629496

Sampling Point: RPC 8 Sample 5th Draw PWS ID: MI600

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	**2.0**	ug/L	---	05/26/20 16:56	4629497
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 16:56	4629497

Client Name: Benton Harbor, City of Report #: 486115

Sampling Point: RPC 9 Sample 5th Draw PWS ID: MI600

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	**7.5**	ug/L	---	05/26/20 16:59	4629498
7439-92-1	Lead	200.8	15 !	1.0	**18**	ug/L	---	05/26/20 16:59	4629498

Sampling Point: RPC 10 Sample 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/26/20 17:02	4629499
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 17:02	4629499

Sampling Point: RPC 11 Sample 5th Draw PWS ID: MI600

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	**1.4**	ug/L	---	05/26/20 17:10	4629500
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 17:10	4629500

Sampling Point: RPC 12 Sample 5th Draw PWS ID: MI600

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	**2.7**	ug/L	---	05/26/20 17:19	4629501
7439-92-1	Lead	200.8	15 !	1.0	**2.4**	ug/L	---	05/26/20 17:19	4629501

Sampling Point: RPC 13 Sample 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/26/20 17:21	4629502
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/26/20 17:21	4629502

Client Name: Benton Harbor, City of Report #: 486115

Sampling Point: RPC 14 Sample 5th Draw PWS ID: MI600

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	**2.0**	ug/L	---	05/26/20 17:24	4629503
7439-92-1	Lead	200.8	15 !	1.0	**8.3**	ug/L	---	05/26/20 17:24	4629503

Sampling Point: RPC 15 Sample 5th Draw PWS ID: MI600

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	**2.9**	ug/L	---	05/26/20 17:27	4629504
7439-92-1	Lead	200.8	15 !	1.0	**1.3**	ug/L	---	05/26/20 17:27	4629504

Sampling Point: RPC 16 Sample 5th Draw PWS ID: MI600

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	**1.8**	ug/L	---	05/26/20 17:30	4629505
7439-92-1	Lead	200.8	15 !	1.0	**81**	ug/L	---	05/26/20 17:30	4629505

Sampling Point: RPC 17 Sample 5th Draw PWS ID: MI600

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	**1.5**	ug/L	---	05/26/20 17:32	4629506
7439-92-1	Lead	200.8	15 !	1.0	**4.3**	ug/L	---	05/26/20 17:32	4629506

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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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Batch # 486115

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CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	~~Mike O'Malley~~ Residents	600	MI	Lead and Copper 1st Half 2020	S05119
BILL TO: MOMalley @ cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	46294 73	05/14/20	8:00 AM	x		RPC 1 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
2	474	05/14/20	6:00 AM	x		RPC 2 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
3	475	05/14/20	7:00 AM	x		RPC 3 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
4	476	05/13/20	4:00 PM		x	RPC 4 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
5	477	05/13/20	10:00 PM		x	RPC 5 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
6	478	05/14/20	6:00 AM	x		RPC 6 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
7	479	05/14/20	8:00 AM	x		RPC 7 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
8	480	05/14/20	6:30 AM	x		RPC 8 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
9	481	05/14/20	4:00 AM	x		RPC 9 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
10	482	05/14/20	7:00 AM	x		RPC 10 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
11	483	05/14/20	6:00 AM	x		RPC 11 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
12	484	05/14/20	7:00 AM	x		RPC 12 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
13	485	05/13/20	9:30 PM		x	RPC 13 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
14	486	05/14/20	7:30 AM	x		RPC 14 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw

	DATE	TIME		RECEIVED BY:(Signature)	DATE	TIME	
RELINQUISHED BY:(Signature)	5/15/20	7	AM PM				AM PM
RELINQUISHED BY:(Signature)	5/18/20	1:50	AM PM	RECEIVED BY:(Signature)	5/18	1:50	AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	AM PM	RECEIVED FOR LABORATORY BY:	5-18-2020	1350	AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):
___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt___ 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%
IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unpreserved with less than 48 hours holding time remaining may be subject to additional charges.

* Please call, expedited service not available for all testing

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South Bend, IN 46617
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F: 1.574.233.8207

Order # _____

Batch # _____

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CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley Residents	600	MI	Lead and Copper 1st Half 2020	S05119
BILL TO: momalley@cityofbentonharbormi.gov awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes = x; No =	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 4629 487	05/13/20	7:05 AM	x		RPC 15 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	$w
2 488	05/13/20	7:30 AM	x		RPC 16 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	$w
3 489	05/13/20	7:30 AM	x		RPC 17 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	$w

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/15/20	7 (AM) PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/18	1:50 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM		5-18-2020	1350 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Order # 399308
Batch # 486115

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	~~Mike O'Malley~~	600	MI	Lead and Copper 1st Half 2020	S05119
BILL TO: Momalley @ cityofbentonharbormi.gov	COMPLIANCE MONITORING	Yes: x	No:	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	46629 490	05/14/20	8:00 AM	x		RPC 1 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
2	491	05/14/20	6:00 AM	x		RPC 2 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
3	492	05/14/20	7:00 AM	x		RPC 3 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
4	493	05/13/20	4:00 PM		x	RPC 4 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
5	494	05/13/20	10:00 PM		x	RPC 5 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
6	495	05/14/20	6:00 AM	x		RPC 6 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
7	496	05/14/20	8:00 AM	x		RPC 7 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
8	497	05/14/20	6:30 AM	x		RPC 8 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
9	498	05/14/20	4:00 AM	x		RPC 9 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
10	499	05/14/20	7:00 AM	x		RPC 10 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
11	500	05/14/20	6:00 AM	x		RPC 11 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
12	501	05/14/20	7:00 AM	x		RPC 12 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
13	502	05/13/20	9:30 PM		x	RPC 13 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
14	503	05/14/20	7:30 AM	x		RPC 14 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/15/20	7 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/18/20	1:50 AM PM		5/18	1:50 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	5-18-2020		1350 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):
____ Iced: Wet/Blue ____X Ambient ____ °C Upon Receipt ____ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received [illegible] with less than 48 hours holding time [illegible] may be subject to additional charges

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Order # _____

Batch # _____

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CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley Residents	600	MI	Lead and Copper 1st Half 2020	S05119
BILL TO: momalley@cityofbentonharbormi.gov awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	46029 S04	05/13/20	7:05 AM	x		RPC 15 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
2	S05	05/13/20	7:30 AM	x		RPC 16 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw
3	S06	05/13/20	7:30 AM	x		RPC 17 Sample 1st Draw & 5th Draw	Lead and Copper 1st Draw & 5th Draw	1st and 5th	x		2	sw	sw

	DATE	TIME	AM	PM		DATE	TIME	AM	PM
RELINQUISHED BY:(Signature)	5/15/20	7	x		RECEIVED BY:(Signature)				
RELINQUISHED BY:(Signature)	5/18	1:50	x		RECEIVED BY:(Signature)				
RELINQUISHED BY:(Signature)					RECEIVED FOR LABORATORY BY:	5-18-2020	1350	x	

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue _x_ Ambient _____ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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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.

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*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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

Revision date: 03/14/2019

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

Laboratory Report

Client: Benton Harbor, City of

Attn: Michael O'Malley
200 East Wall Street
Benton Harbor, MI 49002

Report: 488775
Priority: Standard Written
Status: Final
PWS ID: MI600

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4651648	RPd 1 1st	200.8	06/09/20 17:15	Client	06/17/20 09:55
4651649	RPd 2 1st	200.8	06/10/20 07:45	Client	06/17/20 09:55
4651650	RPd 3 1st	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651651	RPd 4 1st	200.8	06/10/20 08:30	Client	06/17/20 09:55
4651652	RPd 5 1st	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651653	RPd 6 1st	200.8	06/10/20 04:00	Client	06/17/20 09:55
4651654	RPd 7 1st	200.8	06/10/20 08:00	Client	06/17/20 09:55
4651655	RPd 1 5th	200.8	06/09/20 17:18	Client	06/17/20 09:55
4651656	RPd 2 5th	200.8	06/10/20 07:45	Client	06/17/20 09:55
4651657	RPd 3 5th	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651658	RPd 4 5th	200.8	06/10/20 08:30	Client	06/17/20 09:55
4651659	RPd 5 5th	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651660	RPd 6 5th	200.8	06/10/20 04:00	Client	06/17/20 09:55
4651661	RPd 7 5th	200.8	06/10/20 08:00	Client	06/17/20 09:55

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.

Pat Muff ASM 06/27/2020

Authorized Signature Title Date

Client Name: Benton Harbor, City of
Report #: 488775

Client Name: Benton Harbor, City of Report #: 488775

Sampling Point: RPd 1 1st PWS ID: MI600

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	**1.8**	ug/L	---	06/23/20 20:14	4651648
7439-92-1	Lead	200.8	15 !	1.0	**23**	ug/L	---	06/23/20 20:14	4651648

Sampling Point: RPd 2 1st PWS ID: MI600

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	---	06/23/20 20:17	4651649
7439-92-1	Lead	200.8	15 !	1.0	**3.4**	ug/L	---	06/23/20 20:17	4651649

Sampling Point: RPd 3 1st PWS ID: MI600

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	---	06/23/20 20:20	4651650
7439-92-1	Lead	200.8	15 !	1.0	**11**	ug/L	---	06/23/20 20:20	4651650

Sampling Point: RPd 4 1st PWS ID: MI600

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	---	06/23/20 17:42	4651651
7439-92-1	Lead	200.8	15 !	1.0	**4.4**	ug/L	---	06/23/20 17:42	4651651

Sampling Point: RPd 5 1st PWS ID: MI600

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	**3.9**	ug/L	---	06/23/20 17:45	4651652
7439-92-1	Lead	200.8	15 !	1.0	**1.4**	ug/L	---	06/23/20 17:45	4651652

Client Name: Benton Harbor, City of Report #: 488775

Sampling Point: RPd 6 1st PWS ID: MI600

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	**2.2**	ug/L	---	06/23/20 17:53	4651653
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	06/23/20 17:53	4651653

Sampling Point: RPd 7 1st PWS ID: MI600

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	---	06/23/20 17:56	4651654
7439-92-1	Lead	200.8	15 !	1.0	**17**	ug/L	---	06/23/20 17:56	4651654

Sampling Point: RPd 1 5th PWS ID: MI600

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	**1.3**	ug/L	---	06/23/20 17:59	4651655
7439-92-1	Lead	200.8	15 !	1.0	**2.4**	ug/L	---	06/23/20 17:59	4651655

Sampling Point: RPd 2 5th PWS ID: MI600

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	**2.6**	ug/L	---	06/23/20 18:01	4651656
7439-92-1	Lead	200.8	15 !	1.0	**2.9**	ug/L	---	06/23/20 18:01	4651656

Sampling Point: RPd 3 5th PWS ID: MI600

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	---	06/23/20 18:04	4651657
7439-92-1	Lead	200.8	15 !	1.0	**3.9**	ug/L	---	06/23/20 18:04	4651657

Client Name: Benton Harbor, City of Report #: 488775

Sampling Point: RPd 4 5th PWS ID: MI600

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	**7.5**	ug/L	---	06/23/20 18:07	4651658
7439-92-1	Lead	200.8	15 !	1.0	**6.6**	ug/L	---	06/23/20 18:07	4651658

Sampling Point: RPd 5 5th PWS ID: MI600

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	**1.2**	ug/L	---	06/23/20 18:10	4651659
7439-92-1	Lead	200.8	15 !	1.0	**1.6**	ug/L	---	06/23/20 18:10	4651659

Sampling Point: RPd 6 5th PWS ID: MI600

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	**2.1**	ug/L	---	06/23/20 18:13	4651660
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	06/23/20 18:13	4651660

Sampling Point: RPd 7 5th PWS ID: MI600

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	**26**	ug/L	---	06/23/20 18:21	4651661
7439-92-1	Lead	200.8	15 !	1.0	**23**	ug/L	---	06/23/20 18:21	4651661

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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.

pm 6/17/2020

399910

eurofins | Eaton Analytical

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

Order # ~~399910~~ 399910 (6/17/2020 KP)

Batch # 488775

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:
Mike O'Malley, momalley@cityofbentonharbormi.gov

BILL TO:
awade@cityofbentonharbormi.gov

SAMPLER (Signature): Mike O'Malley

COMPLIANCE MONITORING	Yes	No
	x	

PWS ID #	STATE (sample origin)
600	MI

POPULATION SERVED	SOURCE WATER
9,639	Lake Michigan

PROJECT NAME: last round Lead and Copper Testing

PO#: SG5146

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 (1ST) 46051648	06/09/20	5:15		x	RPd 1 (5TH) 46051655	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
2 649	06/10/20	7:45	x		RPD 2 656	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
3 650	06/10/20	7:00	x		RPd 3 657	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
4 651	06/10/20	8:30	x		RPd 4 658	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
5 652	06/10/20	7:00	x		RPd 5 659	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
6 653	06/10/20	4:00	x		RPd 6 660	Lead and Copper 1st Draw and 5th Draw	1st&5th	x		2	SW	$W
7 654	06/10/20	8:00	x		RPd 7 6101							
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	6/17/20	8:55 AM PM		6/17/20	8:30 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	6/17/20	9:55 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	6-17-2020		0955 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue X Ambient ___ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

eurofins | Eaton Analytical

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.

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*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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

Revision date: 03/14/2019

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

Laboratory Report

Client: City of Benton Harbor

Attn: Michael O'Malley
200 East Wall Street
Benton Harbor, MI 49002

Report: 485017
Priority: Standard Written
Status: Final
PWS ID: MI600

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4621306	RP2 1st Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621307	RP3 1st Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621308	RP4 1st Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621309	RP5 1st Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621310	RP6 1st Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621311	RP7 1st Draw	200.8	04/28/20 21:00	Client	05/04/20 14:45
4621312	RP9 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621313	RP11 1st Draw	200.8	04/29/20 12:00	Client	05/04/20 14:45
4621314	RP13 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621315	RP14 5A	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621316	RP15 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621317	RP16 1st Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45
4621318	RP17 1st Draw	200.8	04/28/20 21:38	Client	05/04/20 14:45
4621319	RP19 1st Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621320	RP21 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621321	RP23 1st Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621322	RP24 1st Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621323	RP25 1st Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621324	RP10 1st Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45
4621325	RP2 5th Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621326	RP3 5th Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621327	RP4 5th Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621328	RP5 5th Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621329	RP6 5th Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621330	RP7 5th Draw	200.8	04/28/20 09:00	Client	05/04/20 14:45
4621331	RP9 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621332	RP11 5th Draw	200.8	04/29/20 00:00	Client	05/04/20 14:45
4621333	RP13 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621334	RP14 5B	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621335	RP15 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621336	RP16 5th Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45

4621337	RP17 5th Draw	200.8	04/28/20 23:38	Client	05/04/20 14:45
4621338	RP19 5th Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621339	RP21 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621340	RP23 5th Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621341	RP24 5th Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621342	RP25 5th Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621343	RP10 5th Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45

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.

Pat Muff ASM 05/13/2020

Authorized Signature Title Date

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP2 1st Draw PWS ID: MI600

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	**1.4**	ug/L	---	05/08/20 11:26	4621306
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:26	4621306

Sampling Point: RP3 1st Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/08/20 11:29	4621307
7439-92-1	Lead	200.8	15 !	1.0	**1.2**	ug/L	---	05/08/20 11:29	4621307

Sampling Point: RP4 1st Draw PWS ID: MI600

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	**2.5**	ug/L	---	05/08/20 11:36	4621308
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:36	4621308

Sampling Point: RP5 1st Draw PWS ID: MI600

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	---	05/08/20 11:38	4621309
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:38	4621309

Sampling Point: RP6 1st Draw PWS ID: MI600

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	**2.5**	ug/L	---	05/08/20 11:41	4621310
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:41	4621310

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP7 1st Draw PWS ID: MI600

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	---	05/08/20 11:43	4621311
7439-92-1	Lead	200.8	15 !	1.0	**5.2**	ug/L	---	05/08/20 11:43	4621311

Sampling Point: RP9 1st Draw PWS ID: MI600

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	**2.1**	ug/L	---	05/08/20 11:45	4621312
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:45	4621312

Sampling Point: RP11 1st Draw PWS ID: MI600

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	**5.7**	ug/L	---	05/08/20 11:48	4621313
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 11:48	4621313

Sampling Point: RP13 1st Draw PWS ID: MI600

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	**3.0**	ug/L	---	05/08/20 11:50	4621314
7439-92-1	Lead	200.8	15 !	1.0	**1.3**	ug/L	---	05/08/20 11:50	4621314

Sampling Point: RP14 5A PWS ID: MI600

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	**3.0**	ug/L	---	05/08/20 11:53	4621315
7439-92-1	Lead	200.8	15 !	1.0	**7.2**	ug/L	---	05/08/20 11:53	4621315

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP15 1st Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/08/20 12:00	4621316
7439-92-1	Lead	200.8	15 !	1.0	**1.7**	ug/L	---	05/08/20 12:00	4621316

Sampling Point: RP16 1st Draw PWS ID: MI600

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	05/11/20 11:10	05/12/20 13:37	4621317
7439-92-1	Lead	200.8	15 !	1.0	**440**	ug/L	05/11/20 11:10	05/12/20 13:37	4621317

Sampling Point: RP17 1st Draw PWS ID: MI600

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	**17**	ug/L	---	05/08/20 12:02	4621318
7439-92-1	Lead	200.8	15 !	1.0	**3.5**	ug/L	---	05/08/20 12:02	4621318

Sampling Point: RP19 1st Draw PWS ID: MI600

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	---	05/08/20 12:10	4621319
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:10	4621319

Sampling Point: RP21 1st Draw PWS ID: MI600

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	**2.3**	ug/L	---	05/08/20 12:12	4621320
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:12	4621320

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP23 1st Draw PWS ID: MI600

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	**17**	ug/L	---	05/08/20 12:14	4621321
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:14	4621321

Sampling Point: RP24 1st Draw PWS ID: MI600

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	**2.3**	ug/L	---	05/08/20 12:17	4621322
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:17	4621322

Sampling Point: RP25 1st Draw PWS ID: MI600

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	**6.8**	ug/L	---	05/08/20 12:19	4621323
7439-92-1	Lead	200.8	15 !	1.0	**3.8**	ug/L	---	05/08/20 12:19	4621323

Sampling Point: RP10 1st Draw PWS ID: MI600

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	**1.3**	ug/L	---	05/08/20 12:22	4621324
7439-92-1	Lead	200.8	15 !	1.0	**3.0**	ug/L	---	05/08/20 12:22	4621324

Sampling Point: RP2 5th Draw PWS ID: MI600

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	**1.1**	ug/L	---	05/08/20 12:24	4621325
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:24	4621325

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP3 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/08/20 12:27	4621326
7439-92-1	Lead	200.8	15 !	1.0	**1.6**	ug/L	---	05/08/20 12:27	4621326

Sampling Point: RP4 5th Draw PWS ID: MI600

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	**1.5**	ug/L	---	05/08/20 12:39	4621327
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:39	4621327

Sampling Point: RP5 5th Draw PWS ID: MI600

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	**6.1**	ug/L	---	05/08/20 12:41	4621328
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:41	4621328

Sampling Point: RP6 5th Draw PWS ID: MI600

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	**1.4**	ug/L	---	05/08/20 12:48	4621329
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:48	4621329

Sampling Point: RP7 5th Draw PWS ID: MI600

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	---	05/08/20 12:51	4621330
7439-92-1	Lead	200.8	15 !	1.0	**5.1**	ug/L	---	05/08/20 12:51	4621330

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP9 5th Draw PWS ID: MI600

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	**2.6**	ug/L	---	05/08/20 12:53	4621331
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:53	4621331

Sampling Point: RP11 5th Draw PWS ID: MI600

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	**4.0**	ug/L	---	05/08/20 12:56	4621332
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:56	4621332

Sampling Point: RP13 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/08/20 12:58	4621333
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 12:58	4621333

Sampling Point: RP14 5B PWS ID: MI600

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	**1.6**	ug/L	---	05/08/20 13:00	4621334
7439-92-1	Lead	200.8	15 !	1.0	**10**	ug/L	---	05/08/20 13:00	4621334

Sampling Point: RP15 5th Draw PWS ID: MI600

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	< 1.0	ug/L	---	05/08/20 13:03	4621335
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 13:03	4621335

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP16 5th Draw PWS ID: MI600

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	**2.7**	ug/L	---	05/08/20 13:05	4621336
7439-92-1	Lead	200.8	15 !	1.0	**1.0**	ug/L	---	05/08/20 13:05	4621336

Sampling Point: RP17 5th Draw PWS ID: MI600

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	**8.6**	ug/L	---	05/08/20 13:12	4621337
7439-92-1	Lead	200.8	15 !	1.0	**5.1**	ug/L	---	05/08/20 13:12	4621337

Sampling Point: RP19 5th Draw PWS ID: MI600

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	**7.2**	ug/L	---	05/08/20 13:15	4621338
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 13:15	4621338

Sampling Point: RP21 5th Draw PWS ID: MI600

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	**1.7**	ug/L	---	05/08/20 13:22	4621339
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 13:22	4621339

Sampling Point: RP23 5th Draw PWS ID: MI600

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	**4.2**	ug/L	---	05/08/20 13:24	4621340
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 13:24	4621340

Client Name: City of Benton Harbor Report #: 485017

Sampling Point: RP24 5th Draw PWS ID: MI600

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	**2.4**	ug/L	---	05/08/20 13:27	4621341
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	05/08/20 13:27	4621341

Sampling Point: RP25 5th Draw PWS ID: MI600

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	**1.3**	ug/L	---	05/08/20 13:29	4621342
7439-92-1	Lead	200.8	15 !	1.0	**5.1**	ug/L	---	05/08/20 13:29	4621342

Sampling Point: RP10 5th Draw PWS ID: MI600

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	**1.9**	ug/L	---	05/08/20 13:32	4621343
7439-92-1	Lead	200.8	15 !	1.0	**9.2**	ug/L	---	05/08/20 13:32	4621343

† 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 or MSD value - Sample value) * 100 / spike target / dilution factor = **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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05042020 05:00

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CHAIN OF CUSTODY RECORD

Page 1 of 2

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley BH Residents	600	MI	Lead and Copper 1st Half of 2020	S05106
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

#	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4L021306	04/30/20	10:00	x		RP2 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
2	307	04/28/20	7:00		x	RP3 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
3	308	04/28/20	10:00	x		RP4 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
4	309	04/29/20	5:30	x		RP5 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
5	310	04/29/20	9:21	x		RP6 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
6	311	04/28/20	9:00		x	RP7 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
7	312	04/29/20	8:00	x		RP9 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
8	313	04/29/20	12:00	x		RP11 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
9	314	04/29/20	8:00	x		RP13 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
10	315	04/29/20	8:17	x		RP14 1st Draw and 5th Draw Samples *	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
11	316	04/29/20	6:00	x		RP15 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
12	317	04/29/20	5:00	x		RP16 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
13	318	04/28/20	11:38		x	RP17 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
14	319	04/28/20	9:36		x	RP19 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	5/4/20	7:00 AM	[signature]	5/4	2:47 PM
Rusi O'Malley	5/4	2:45 PM			AM PM
		AM PM	RECEIVED FOR LABORATORY BY: K D[signature]	5-4-2020	1445

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

LAB COMMENTS: * Both Bottles are marked (5) 05042020 05

CONDITIONS UPON RECEIPT (check one): ____ Iced: Wet/Blue __X__ Ambient ______ °C Upon Receipt ____ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

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.

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CHAIN OF CUSTODY RECORD

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley BH Residents	600	MI	Lead and Copper 1st Half of 2020	S05160
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes = x; No =	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	46021320	04/29/20	6:00	x		RP21 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
2	321	04/30/20	4:00	x		RP23 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
3	322	04/28/20	6:00		x	RP24 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
4	323	04/29/20	7:00	x		RP25 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
5	324	NO	NO			RP10 (1) + (5) *							
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/4/20	7:00 AM PM		5-4	2:45 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	5/4	2:45 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM		5-4-2020	1445 AM PM

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

LAB COMMENTS: We will use 4-30-2020 00:00 per Pat. 05062020

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ Ambient ___ °C Upon Receipt___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley BH Residents	600	MI	Lead and Copper 1st Half of 2020	S05106
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4621325	04/30/20	10:00	x		RP2 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
2	326	04/28/20	7:00		x	RP3 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
3	327	04/28/20	10:00	x		RP4 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
4	328	04/29/20	5:30	x		RP5 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
5	329	04/29/20	9:21	x		RP6 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
6	330	04/28/20	9:00		x	RP7 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
7	331	04/29/20	8:00	x		RP9 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
8	332	04/29/20	12:00	x		RP11 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
9	333	04/29/20	8:00	x		RP13 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
10	334	04/29/20	8:17	x		RP14 1st Draw and 5th Draw Samples *	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
11	335	04/29/20	6:00	x		RP15 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
12	336	04/29/20	5:00	x		RP16 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
13	337	04/28/20	11:38		x	RP17 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW
14	338	04/28/20	9:36		x	RP19 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	SW

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	5/4/20	7:00 AM	[signature]	5/4	2:45 PM
Lisa O'Malley	5/4	2:45 PM			
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	K D[signature]	5-4-2020	1445

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

LAB COMMENTS
* Both Bottles are marked (5) 05042020 00

CONDITIONS UPON RECEIPT (check one):
___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ 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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

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.

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Order # _____

Batch # _____

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CHAIN OF CUSTODY RECORD

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Mike O'Malley, momalley@cityofbentonharbormi.gov	Mike O'Malley BH Residents	600	MI	Lead and Copper 1st Half of 2020	S05160
BILL TO: awade@cityofbentonharbormi.gov	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED: 9,639	SOURCE WATER: Lake Michigan		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	462339	04/29/20	6:00	x		RP21 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
2	340	04/30/20	4:00	x		RP23 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
3	341	04/28/20	6:00		x	RP24 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
4	342	04/29/20	7:00	x		RP25 1st Draw and 5th Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	x		2	SW	$W
5	V 343	NO	NO			RP10 (1) + (5) *							
6	3												
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	5/4/20	7:00 AM / PM	[signature]	5-4	2:45 AM / PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	5/4	2:45 AM / PM			AM / PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM / PM	[signature] 5-4-2020		1444 AM / PM

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

LAB COMMENTS: We will use 4-30-2020 00:00 per Pat. 05062020

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ X Ambient ___ °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
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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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

BENTON HARBOR
Port of Opportunities

PURCHASE REQUISITION

TO BE FILLED IN BY
PURCHASING AGENT

PURCHASE ORDER# _____

_____ 20 _____

REQUISITION #: S 05106

DATE: 5/1/20

Water Dist Sampling Lead/Copper

PURCHASING AGENT: _____

591.571.~~9300~~740 DEPARTMENT

VENDOR: Eurofins Eaton Analytical

110 S. Hill St, South Bend IN 46617

CONTACT NAME: Pat Muff

(800) 332-4345

ACCOUNT	WHERE USED	QUANTITY	DESCRIPTION	UNIT PRICE ESTIMATE	UNIT PRICE QUOTED	EXTENSION	TRADE DISCOUNT	NET PRICE
			18 Sample sites 2 Each					
		36	Lead & Copper testing					

TERM: _____ *APPROVAL SIGNATURE:* _____

Printed & Printed by Berrien County Printing

MI 0600 Benton Harbor Lead & Copper June 2020 Revised

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

EGLE

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A – SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

1. Supply Name: Benton Harbor
2. County: Berrien
3. WSSN: 0600
4. Population: 9670
5. Monitoring Period: From: 1/1/2020 To: 6/30/2020
6. Minimum # of Samples Required: 60
7. # of Samples Taken: 63
8. Name of Certified Laboratory: Eurofins Eaton Analytical, South Bend IN.

9. SAMPLE CRITERIA:

This form is for water supplies collecting *some* or *all* lead and copper samples from sites WITH LEAD SERVICE LINES. All other supplies should use Form B.

Yes	No		
x		Are some or all samples from sites WITH lead service lines? If no sites served by a lead service line, STOP and use Form B.	For more information see *Instructions* item 11 "Tier and Sample Category" at the end of the document.
x	☐	Did you prioritize sample collection according to the following: • Tier 1 sites must be used unless insufficient Tier 1 sites available. • If insufficient Tier 1 sites available, then Tier 2 sites must be used. • If insufficient Tier 2 sites, then Tier 3 sites must be used. • If no Tier 1, 2, or 3 sites are available, sites must be representative of plumbing materials typically found throughout the water system.	
☐	x	Were the same sampling sites used as in the previous monitoring period? **If no, explain** (attach additional pages if needed): I said yes & No because some where & some were Not	

Comments:
There were some sampling locations that were sampled in previous years.
Most were likely new locations.
This Preformated EGLE Version in word document is very hard to use. Try it once & see what I mean

10. SIGNATURE:

Name: Mike O'Malley Signature:

Title: Water Operator In Charge Phone: (269)363-0575 Date: 7/2/20 Revised

MI 0600 Benton Harbor Lead & Copper 1/1/20 to 6/30/20 Revised

11. TAP SAMPLING DATA

Sheet 1 of 3. Revised

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1st Liter Sample			5th Liter Sample		
		1	A	Plumbing Unknown	Very Likely = known Likely = lead nearby Unknown = Lead in area	Kitchen	Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L ug/L	Lab Sample Number
RP2	4/30/2020	1	A	Unknown	Likely	Kitchen	0	1.4	4621306	0	1.1	4621325
RP3	4/28/2020	1	A	Unknown	very Likely	Kitchen	1.2	0	4621307	1.6	0	4621326
RP4	4/28/2020	1	A	Unknown	Likely	Kitchen	0	2.5	4621308	0	1.5	4621327
RP5	4/29/2020	1	A	Unknown	PLSLR	Kitchen	0	9	4621309	0	6.1	4621328
RP6	4/29/2020	1	A	Unknown	Likely	Kitchen	0	2.5	4621310	0	1.4	4621329
RP7	4/28/2020	1	A	Unknown	very Likely	Kitchen	5.2	150	4621311	5.1	28	4621330
RP9	4/29/2020	1	A	Unknown	Possible	Kitchen	0	2.1	4621312	0	2.6	4621331
RP10	4/29/2020	1	A	Unknown	very Likely	Kitchen	3	1.3	4621313	9.2	1.9	4621332
RP11	4/29/2020	1	A	Unknown	Possible	Kitchen	0	5.7	4621314	0	4	4621333
RP13	4/29/2020	1	A	Unknown	Possible	Kitchen	1.3	3	4621315	0	0	4621334
RP14	4/29/2020	1	A	Unknown	Likely	Kitchen	7.2	3	4621316	10	1.6	4621335
RP15	4/29/2020	1	A	Unknown	very Likely	Kitchen	1.7	0	4621317	0	0	4621336
RP16	4/29/2020	1	A	Unknown	Possible	Kitchen	440	130	4621318	1	2.7	4621337
RP17	4/28/2020	1	A	Unknown	Possible	Kitchen	3.5	17	4621319	5.1	8.6	4621338
RP19	4/28/2020	1	A	Unknown	very Likely	Kitchen	0	8.9	4621320	0	7.2	4621339
RP21	4/29/2020	1	A	Unknown	very Likely	Kitchen	0	2.3	4621321	0	1.7	4621340
RP23	4/30/2020	1	A	Unknown	very Likely	Kitchen	0	17	4621322	0	4.2	4621341
RP24	4/28/2020	1	A	Unknown	very Likely	Kitchen	0	2.3	4621323	0	2.4	4621342
RP25	4/29/2020	1	A	Unknown	Likely	Kitchen	3.8	6.8	4621324	5.1	1.3	4621343
rpb1	5/6/2020	1	A	Unknown	Possible	Kitchen	1.1	9.4	4624126	0	2.5	4624146
rpb2	5/6/2020	1	A	Unknown	very Likely	Kitchen	1.1	0	4624127	2	0	4624147
rpb3	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	37.0	4624128	0.0	9.6	4624148
rpb4	5/6/2020	1	A	Unknown	Possible	Kitchen	1.8	13.0	4624129	3.4	2.6	4624149
rpb5	5/6/2020	1	A	Unknown	Possible	Kitchen	0.0	8.7	4624130	0.0	8.3	4624150

If you tried to fill in page 1 of the report try doing this page for Ever more fun!

11. TAP SAMPLING DATA

Sheet 2 of 3. Revised

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1st Liter Sample			5th Liter Sample		
		1	A	Plumbing Unknown	Very Likely = known Likely = lead nearby Unknown = Lead in area	Kitchen	Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L ug/L	Lab Sample Number
rpb6	5/8/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624131	1.3	1.2	4624151
rpb7	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	3.2	4624132	0.0	1.1	4624152
rpb8	5/7/2020	1	A	Unknown	very Likely	Kitchen	21.0	4.4	4624133	4.2	1.5	4624153
rpb9	5/7/2020	1	A	Unknown	very Likely	Kitchen	3.6	1.1	4624134	7.9	4.4	4624154
rpb10	5/7/2020	1	A	Unknown	likely	Kitchen	5.7	2.3	4624135	14.0	2.0	4624155
rpb11	5/7/2020	1	A	Unknown	very Likely	Kitchen	9.2	2.0	4624136	23.0	2.6	4624156
rpb12	5/7/2020	1	A	Unknown	very Likely	Kitchen	8.5	6.4	4624137	5.3	1.4	4624157
rpb13	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	4.1	4624138	0.0	1.7	4624158
rpb15	5/7/2020	1	A	Unknown	very Likely	Kitchen	6.2	48.0	4624139	4.3	50.0	4624159
rpb16	5/7/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624140	1.3	1.1	4624160
rpb17	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.4	4624141	0.0	5.1	4624161
rpb18	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.2	4624142	0.0	1.8	4624162
rpb19	5/5/2020	1	A	Unknown	very Likely	Kitchen	0.0	2.2	4624143	0.0	1.3	4624163
rpb20	5/7/2020	1	A	Unknown	very Likely	Kitchen	100.0	5.4	4624144	5.3	1.0	4624164
rpb21	5/8/2020	1	A	Unknown	very Likely	Kitchen	3.5	230.0	4624145	1.4	20.0	4624165
RPC 1	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	10	4629473	0	2	4629490
RPC 2	5/13/2020	1	A	Unknown	very Likely	Kitchen	2.4	2.1	4629474	2	1.6	4629491
RPC 3	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.5	2.6	4629475	1.5	0	4629492
RPC 4	5/12/2020	1	A	Unknown	very Likely	Kitchen	29	4.4	4629476	11	1.6	4629493
RPC 5	5/12/2020	1	A	Unknown	very Likely	Kitchen	0	3.2	4629477	0	2.9	4629494
RPC 6	5/13/2020	1	A	Unknown	Likely	Kitchen	0	18	4629478	0	14	4629495
RPC 7	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	2.5	4629479	0	2.8	4629496
RPC 8	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.5	9.1	4629480	0	2	4629497
RPC 9	5/13/2020	1	A	Unknown	very Likely	Kitchen	22	7.3	4629481	18	7.5	4629498
RPC 10	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	0	4629482	0	0	4629499
RPC 11	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	7.8	4629483	0	1.4	4629500

11. TAP SAMPLING DATA

Sheet 3 of 3 Revised

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1st Liter Sample			5th Liter Sample		
		1	A	Plumbing Unknown	Very Likely = known Likely = lead nearby Unknown = Lead in area	Kitchen	Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L ug/L	Lab Sample Number
RPC 12	5/13/2020	1	A	Unknown	very Likely	Kitchen	2.2	5	4629484	2.4	2.7	4629501
RPC 13	5/12/2020	1	A	Unknown	Likely	Kitchen	0	1.1	4629485	0	0	4629502
RPC 14	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	0	4629486	8.3	2	4629503
RPC 15	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.4	36	4629487	1.3	2.9	4629504
RPC 16	5/13/2020	1	A	Unknown	very Likely	Kitchen	44	3.7	4629488	81	1.8	4629505
RPC 17	5/13/2020	1	A	Unknown	very Likely	Kitchen	6.4	2.9	4629489	4.3	1.5	4629506
RPd 1	6/9/2020	1	A	Unknown	Likely	Kitchen	23	1.8	4651648	2.4	1.3	4651655
RPd 2	6/10/2020	1	A	Unknown	Likely	Kitchen	3.4	33	4651649	2.9	2.6	4651656
RPd 3	6/10/2020	1	A	Unknown	very Likely	Kitchen	11	45	4651650	3.9	28	4651657
RPd 4	6/10/2020	1	A	Unknown	very Likely	Kitchen	4.4	5.6	4651651	6.6	7.5	4651658
RPd 5	6/10/2020	1	A	Unknown	very Likely	Kitchen	1.4	3.9	4651652	1.6	1.2	4651659
RPd 6	6/10/2020	1	A	Unknown	Likely	Kitchen	0	2.2	4651653	0	2.1	4651660
RPd 7	6/10/2020	1	A	Unknown	very Likely	Kitchen	17	28	4651654	23	26	4651661