



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

Date: February 21, 2020

Whitehouse, Village Of (606)

Attn: Steve Pilcher

Po Box 2476

Whitehouse, OH 43571

Project Manager: Jane McIntire

RE: Certificate of Analysis for Project - OH4801612

The following report contains analytical results for samples submitted on the chain of custody dated February 11, 2020.

I have reviewed the validity of the analytical data generated. All data is reported in accordance to our laboratory QA/QC plan. Any exceptions are noted in the Case Narrative or with qualifiers in the report.

If you have any questions or need additional documentation, please contact your Project Manager.

Sincerely,

A handwritten signature in black ink that reads "Cheryl Rex". The signature is written in a cursive style and is positioned above a solid black horizontal line.

Cheryl Rex  
MASI Laboratories  
QA/QC Officer  
cheryl@masilabs.com  
(614) 873-4654



## CERTIFICATE of ANALYSIS

*Microbiological/Inorganic Certification - 877*

*Organic Certification - 4100*

Whitehouse, Village Of  
 Steve Pilcher  
 Po Box 2476  
 Whitehouse, OH 43571

Client #: 606  
 PO Number:  
 Date Received: 2/11/20 11:17  
 Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1

Repeat Sample #:

Total Chlorine (mg/L):

Free Chlorine (mg/L):

Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
 Sample Date/Time: 2/10/20 13:40  
 Sample Monitoring Point: DS202  
 Sample Type: RT  
 Sample Tap/Address: Hydrant, 7344 Providence St, Whitehouse, OH 43571

**Sample ID: 743970**

**Lab Sample # : 0B01082-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>Disinfection Byproducts (DBP)</b>									
Monochloroacetic Acid	ND	ug/L		2.0	0.8	2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
<b>Dichloroacetic Acid</b>	<b>16.7</b>	ug/L		1.0	0.4	2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
<b>Trichloroacetic Acid</b>	<b>3.6</b>	ug/L		1.0	0.3	2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
Monobromoacetic Acid	ND	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
<b>Dibromoacetic Acid</b>	<b>1.9</b>	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
<b>HAA 5 Total</b>	<b>22.2</b>	ug/L		6.0		2/18/20 8:45	2/18/20 21:52	SYSTEM	EPA Method 552.3
<i>Surrogate: 2-Bromopropanoic Acid</i>			<i>89%</i>						
<b>Chloroform</b>	<b>32.8</b>	ug/L		0.5	0.02	2/15/20 20:22	2/15/20 20:22	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.6</b>	ug/L		0.5	0.1	2/15/20 20:22	2/15/20 20:22	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>14.3</b>	ug/L		0.5	0.04	2/15/20 20:22	2/15/20 20:22	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>5.9</b>	ug/L		0.5	0.07	2/15/20 20:22	2/15/20 20:22	DTS	EPA Method 524.2
<b>Total THM</b>	<b>53.6</b>	ug/L		2.0		2/15/20 20:22	2/15/20 20:22	DTS	EPA Method 524.2
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>106%</i>						
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>92%</i>						

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Whitehouse, OH 43571

Client #: 606  
PO Number:  
Date Received: 2/11/20 11:17  
Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
Sample Date/Time: 2/10/20 14:25  
Sample Monitoring Point: DS000  
Sample Type: SP  
Sample Tap/Address: Sink, 6010 N Texas St, Whitehouse, OH 43571

**Sample ID: 769779**

**Lab Sample # : 0B01082-02 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>Disinfection Byproducts (DBP)</b>									
Monochloroacetic Acid	ND	ug/L		2.0	0.8	2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
<b>Dichloroacetic Acid</b>	<b>9.8</b>	ug/L		1.0	0.4	2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
<b>Trichloroacetic Acid</b>	<b>2.3</b>	ug/L		1.0	0.3	2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
Monobromoacetic Acid	ND	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
<b>Dibromoacetic Acid</b>	<b>1.7</b>	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
<b>HAA 5 Total</b>	<b>13.8</b>	ug/L		6.0		2/18/20 8:45	2/18/20 22:23	SYSTEM	EPA Method 552.3
<i>Surrogate: 2-Bromopropanoic Acid</i>			<i>91%</i>	<i>70-130</i>					
<b>Chloroform</b>	<b>19.8</b>	ug/L		0.5	0.02	2/15/20 20:46	2/15/20 20:46	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.7</b>	ug/L		0.5	0.1	2/15/20 20:46	2/15/20 20:46	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>12.5</b>	ug/L		0.5	0.04	2/15/20 20:46	2/15/20 20:46	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>6.1</b>	ug/L		0.5	0.07	2/15/20 20:46	2/15/20 20:46	DTS	EPA Method 524.2
<b>Total THM</b>	<b>39.0</b>	ug/L		2.0		2/15/20 20:46	2/15/20 20:46	DTS	EPA Method 524.2
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>105%</i>	<i>70-130</i>					
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>90%</i>	<i>70-130</i>					

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Whitehouse, Village Of  
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 Whitehouse, OH 43571

Client #: 606  
 PO Number:  
 Date Received: 2/11/20 11:17  
 Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1

Repeat Sample #:

Total Chlorine (mg/L):

Free Chlorine (mg/L):

Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
 Sample Date/Time: 2/10/20 15:10  
 Sample Monitoring Point: DS000  
 Sample Type: SP  
 Sample Tap/Address: Hose Bib, 8770 Dutch Rd, Whitehouse, OH 43571

**Sample ID: 769777**

**Lab Sample # : 0B01082-03 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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**Disinfection Byproducts (DBP)**

<b>Chloroform</b>	<b>20.9</b>	ug/L		0.5	0.02	2/15/20 21:09	2/15/20 21:09	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.6</b>	ug/L		0.5	0.1	2/15/20 21:09	2/15/20 21:09	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>12.4</b>	ug/L		0.5	0.04	2/15/20 21:09	2/15/20 21:09	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>5.5</b>	ug/L		0.5	0.07	2/15/20 21:09	2/15/20 21:09	DTS	EPA Method 524.2
<b>Total THM</b>	<b>39.4</b>	ug/L		2.0		2/15/20 21:09	2/15/20 21:09	DTS	EPA Method 524.2

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 Surrogate: 4-Bromofluorobenzene 105% 70-130

Surrogate: 1,2-Dichlorobenzene-d4 92% 70-130



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Whitehouse, Village Of  
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 Whitehouse, OH 43571

Client #: 606  
 PO Number:  
 Date Received: 2/11/20 11:17  
 Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1

Repeat Sample #:

Total Chlorine (mg/L):

Free Chlorine (mg/L):

Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
 Sample Date/Time: 2/10/20 14:40  
 Sample Monitoring Point: DS000  
 Sample Type: SP  
 Sample Tap/Address: Hose Bib, 6763 Gilead St, Whitehouse, OH 43571

**Sample ID: 769780**

**Lab Sample # : 0B01082-04 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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**Disinfection Byproducts (DBP)**

<b>Chloroform</b>	<b>22.9</b>	ug/L		0.5	0.02	2/15/20 21:32	2/15/20 21:32	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.7</b>	ug/L		0.5	0.1	2/15/20 21:32	2/15/20 21:32	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>12.6</b>	ug/L		0.5	0.04	2/15/20 21:32	2/15/20 21:32	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>5.9</b>	ug/L		0.5	0.07	2/15/20 21:32	2/15/20 21:32	DTS	EPA Method 524.2
<b>Total THM</b>	<b>42.1</b>	ug/L		2.0		2/15/20 21:32	2/15/20 21:32	DTS	EPA Method 524.2

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<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108%</i>	<i>70-130</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>92%</i>	<i>70-130</i>



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Client #: 606  
 PO Number:  
 Date Received: 2/11/20 11:17  
 Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1

Repeat Sample #:

Total Chlorine (mg/L):

Free Chlorine (mg/L):

Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
 Sample Date/Time: 2/10/20 15:30  
 Sample Monitoring Point: DS000  
 Sample Type: SP  
 Sample Tap/Address: Hydrant, 6317 Finzel Rd, Whitehouse, OH 43571

**Sample ID: 769778**

**Lab Sample # : 0B01082-05 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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**Disinfection Byproducts (DBP)**

<b>Chloroform</b>	<b>20.2</b>	ug/L		0.5	0.02	2/15/20 21:55	2/15/20 21:55	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.6</b>	ug/L		0.5	0.1	2/15/20 21:55	2/15/20 21:55	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>11.4</b>	ug/L		0.5	0.04	2/15/20 21:55	2/15/20 21:55	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>5.5</b>	ug/L		0.5	0.07	2/15/20 21:55	2/15/20 21:55	DTS	EPA Method 524.2
<b>Total THM</b>	<b>37.7</b>	ug/L		2.0		2/15/20 21:55	2/15/20 21:55	DTS	EPA Method 524.2

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<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107%</i>	<i>70-130</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>93%</i>	<i>70-130</i>



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Client #: 606  
PO Number:  
Date Received: 2/11/20 11:17  
Ohio EPA Analyzed Date: 2/21/20 11:32

Project Manager: Jane McIntire

PWSID: OH4801612 Facility ID: DS1  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

Sampler Name: Mike Hill  
Sample Date/Time: 2/10/20 14:00  
Sample Monitoring Point: DS201  
Sample Type: RT  
Sample Tap/Address: Hydrant, 7125 Berkey Southern Rd, Whitehouse, OH 43571

**Sample ID: 769776**

**Lab Sample # : 0B01082-06 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>Disinfection Byproducts (DBP)</b>									
Monochloroacetic Acid	ND	ug/L		2.0	0.8	2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
<b>Dichloroacetic Acid</b>	<b>14.7</b>	ug/L		1.0	0.4	2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
<b>Trichloroacetic Acid</b>	<b>4.1</b>	ug/L		1.0	0.3	2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
Monobromoacetic Acid	ND	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
<b>Dibromoacetic Acid</b>	<b>1.7</b>	ug/L		1.0	0.5	2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
<b>HAA 5 Total</b>	<b>20.5</b>	ug/L		6.0		2/18/20 8:45	2/18/20 23:25	SYSTEM	EPA Method 552.3
<i>Surrogate: 2-Bromopropanoic Acid</i>			<i>92%</i>	<i>70-130</i>					
<b>Chloroform</b>	<b>31.9</b>	ug/L		0.5	0.02	2/15/20 22:19	2/15/20 22:19	DTS	EPA Method 524.2
<b>Bromoform</b>	<b>0.6</b>	ug/L		0.5	0.1	2/15/20 22:19	2/15/20 22:19	DTS	EPA Method 524.2
<b>Bromodichloromethane</b>	<b>14.5</b>	ug/L		0.5	0.04	2/15/20 22:19	2/15/20 22:19	DTS	EPA Method 524.2
<b>Dibromochloromethane</b>	<b>5.9</b>	ug/L		0.5	0.07	2/15/20 22:19	2/15/20 22:19	DTS	EPA Method 524.2
<b>Total THM</b>	<b>52.9</b>	ug/L		2.0		2/15/20 22:19	2/15/20 22:19	DTS	EPA Method 524.2
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>107%</i>	<i>70-130</i>					
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>94%</i>	<i>70-130</i>					

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Po Box 2476  
Whitehouse, OH 43571

Client #: 606  
PO Number:  
Date Received: 2/11/20 11:17  
Ohio EPA Analyzed Date: 2/21/20 11:32

### Notes and Definitions

<b>Item</b>	<b>Definition</b>
ND	Analyte NOT DETECTED at or above the reporting limit.
mg/kg Dry	Sample results reported on a dry weight basis.
ug/L	ppb/Part per Billion.
mg/L	ppm/Part per Million.
!	Analyte is at or above the Maximum Contaminate Level.

#### Notes:

1. Calculated analytes are based on raw data and may not reflect the rounding of the individual compounds.
2. Samples are analyzed using the information received on the request sheet and may not be analyzed when the parameters fall outside required guidelines.













