



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Town of Chenango

Project Name: THM & HAA Testing

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 08/23/2023
Reported: 09/17/2023

Analytical Testing Parameters

Client Sample ID: Pennview - Pennview WWTP
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-01

Collected By: Luke Mooney
Collection Date: 08/23/2023 8:00

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	6.16	1.00	ug/L	1		09/01/23 1238	09/02/23 0036	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1	M1	09/01/23 1238	09/02/23 0036	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0036	MRB
Dichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0036	MRB
Trichloroacetic acid	<1.00	1.00	ug/L	1	M1	09/01/23 1238	09/02/23 0036	MRB
Dibromoacetic acid	6.16	1.00	ug/L	1		09/01/23 1238	09/02/23 0036	MRB
Surrogate: 2,3-Dibromopropionic acid	106	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0036	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	0.000520	0.000500	mg/L	1			08/29/23 0816	RJH
Bromoform	0.0129	0.000500	mg/L	1			08/29/23 0816	RJH
Chlorodibromomethane	0.00232	0.000500	mg/L	1			08/29/23 0816	RJH
Chloroform	<0.000500	0.000500	mg/L	1			08/29/23 0816	RJH
Total Trihalomethanes	0.0157	0.000500	mg/L	1			08/29/23 0816	RJH
Surrogate: 4-Bromofluorobenzene	93.4	Limit: 70-130	% Rec	1			08/29/23 0816	RJH
Surrogate: 1,2-Dichlorobenzene-d4	93.2	Limit: 70-130	% Rec	1			08/29/23 0816	RJH



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Client Sample ID: Northgate - 3 South Morning Side
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-02

Collected By: Luke Mooney
Collection Date: 08/23/2023 9:00

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	3.12	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Dichloroacetic acid	1.71	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Trichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Dibromoacetic acid	1.41	1.00	ug/L	1		09/01/23 1238	09/02/23 0058	MRB
Surrogate: 2,3-Dibromopropionic acid	87.2	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0058	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	0.00330	0.000500	mg/L	1			08/31/23 0347	RJH
Bromoform	0.00118	0.000500	mg/L	1			08/31/23 0347	RJH
Chlorodibromomethane	0.00265	0.000500	mg/L	1			08/31/23 0347	RJH
Chloroform	0.0205	0.000500	mg/L	1			08/31/23 0347	RJH
Total Trihalomethanes	0.0277	0.000500	mg/L	1			08/31/23 0347	RJH
Surrogate: 4-Bromofluorobenzene	97.6	Limit: 70-130	% Rec	1			08/31/23 0347	RJH
Surrogate: 1,2-Dichlorobenzene-d4	97.0	Limit: 70-130	% Rec	1			08/31/23 0347	RJH



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Client Sample ID: 12A - 23 Avalon Dr
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-03

Collected By: Luke Mooney
Collection Date: 08/23/2023 9:30

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	2.79	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Dichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Trichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Dibromoacetic acid	2.79	1.00	ug/L	1		09/01/23 1238	09/02/23 0119	MRB
Surrogate: 2,3-Dibromopropionic acid	87.3	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0119	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	0.00259	0.000500	mg/L	1			08/31/23 0413	RJH
Bromoform	0.00288	0.000500	mg/L	1			08/31/23 0413	RJH
Chlorodibromomethane	0.00465	0.000500	mg/L	1			08/31/23 0413	RJH
Chloroform	0.00101	0.000500	mg/L	1			08/31/23 0413	RJH
Total Trihalomethanes	0.0111	0.000500	mg/L	1			08/31/23 0413	RJH
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 70-130	% Rec	1			08/31/23 0413	RJH
Surrogate: 1,2-Dichlorobenzene-d4	95.0	Limit: 70-130	% Rec	1			08/31/23 0413	RJH



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Client Sample ID: Applewood - 29 Maplewood Dr
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-04

Collected By: Luke Mooney
Collection Date: 08/23/2023 11:00

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	5.63	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Dichloroacetic acid	1.73	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Trichloroacetic acid	1.11	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Dibromoacetic acid	2.80	1.00	ug/L	1		09/01/23 1238	09/02/23 0140	MRB
Surrogate: 2,3-Dibromopropionic acid	89.3	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0140	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	0.00583	0.000500	mg/L	1			08/31/23 0438	RJH
Bromoform	0.00259	0.000500	mg/L	1			08/31/23 0438	RJH
Chlorodibromomethane	0.00616	0.000500	mg/L	1			08/31/23 0438	RJH
Chloroform	0.00382	0.000500	mg/L	1			08/31/23 0438	RJH
Total Trihalomethanes	0.0184	0.000500	mg/L	1			08/31/23 0438	RJH
Surrogate: 4-Bromofluorobenzene	97.6	Limit: 70-130	% Rec	1			08/31/23 0438	RJH
Surrogate: 1,2-Dichlorobenzene-d4	99.2	Limit: 70-130	% Rec	1			08/31/23 0438	RJH



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Client Sample ID: Run Acres - 73 Pamala Dr
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-05

Collected By: Luke Mooney
Collection Date: 08/23/2023 11:30

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Dichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Trichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Dibromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0201	MRB
Surrogate: 2,3-Dibromopropionic acid	91.3	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0201	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	0.00251	0.000500	mg/L	1			08/31/23 0503	RJH
Bromoform	0.00170	0.000500	mg/L	1			08/31/23 0503	RJH
Chlorodibromomethane	0.00306	0.000500	mg/L	1			08/31/23 0503	RJH
Chloroform	0.00163	0.000500	mg/L	1			08/31/23 0503	RJH
Total Trihalomethanes	0.00890	0.000500	mg/L	1			08/31/23 0503	RJH
Surrogate: 4-Bromofluorobenzene	93.8	Limit: 70-130	% Rec	1			08/31/23 0503	RJH
Surrogate: 1,2-Dichlorobenzene-d4	94.2	Limit: 70-130	% Rec	1			08/31/23 0503	RJH



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S3F0574

Client Sample ID: Chenango Heights - 17 Pembroke Dr
Sample Matrix: Drinking Water
Lab Sample ID: S3F0574-06

Collected By: Luke Mooney
Collection Date: 08/23/2023 10:00

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Semivolatile Organic Compounds by GC/ECD	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 552.2, Rv. 1 (1995)								
Total Haloacetic acids (HAA5)	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Chloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Bromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Dichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Trichloroacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Dibromoacetic acid	<1.00	1.00	ug/L	1		09/01/23 1238	09/02/23 0223	MRB
Surrogate: 2,3-Dibromopropionic acid	87.8	Limit: 70-130	% Rec	1		09/01/23 1238	09/02/23 0223	MRB

Analyses Performed by: Microbac Laboratories, Inc., Pittston Division

Volatile Organic Compounds by GC/MS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 524.2, Rv. 4.1 (1995)								
Bromodichloromethane	<0.000500	0.000500	mg/L	1			08/31/23 0528	RJH
Bromoform	<0.000500	0.000500	mg/L	1			08/31/23 0528	RJH
Chlorodibromomethane	<0.000500	0.000500	mg/L	1			08/31/23 0528	RJH
Chloroform	<0.000500	0.000500	mg/L	1			08/31/23 0528	RJH
Total Trihalomethanes	<0.000500	0.000500	mg/L	1			08/31/23 0528	RJH
Surrogate: 4-Bromofluorobenzene	93.8	Limit: 70-130	% Rec	1			08/31/23 0528	RJH
Surrogate: 1,2-Dichlorobenzene-d4	96.4	Limit: 70-130	% Rec	1			08/31/23 0528	RJH

Definitions

M1: Matrix spike recovery is above acceptance limits.
MCL: US EPA Maximum Contaminant Level
mg/L: Milligrams per Liter
RL: Reporting Limit
ug/L: Micrograms per Liter

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
11549

New York State Department of Health

Microbac Laboratories, Inc., Pittston Division
12150

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 09/17/2023 21:32



Chain of Custody

Microbac Laboratories, Inc., Sayre Division

Lab Contact: Renee Lantz



S3F0574

TAT 7 days

Town of Chenango

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901
Phone: (607) 760-6240
greg.burden@townofchenango.com

Project Name: THM & HAA Testing

Project/PO Number: N/A
Tenatively Scheduled: 6/27/2023
Route:

Client Sample ID: Pennview - Pennview WWTP

Lab Sample ID: S3F0574-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/23/23 8 AM

Analysis	Method	Field Results/Comments	Hold Time
524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)		14 days
524.2 VOC THM CALC PKG	varies		14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)		14 days
		Container(s)	Designator
		40ml-Vial-Na2S2O3	A
		40ml-Vial-Na2S2O3	B
		60ml-Vial Amber-NH4CL	C
		60ml-Vial Amber-NH4CL	D
		60ml-Vial Amber-NH4CL	E

Client Sample ID: Northgate - 3 South Morning Side

Lab Sample ID: S3F0574-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/23/23 9 AM

Analysis	Method	Field Results/Comments	Hold Time
524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)		14 days
524.2 VOC THM CALC PKG	varies		14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)		14 days
		Container(s)	Designator
		40ml-Vial-Na2S2O3	A
		40ml-Vial-Na2S2O3	B
		60ml-Vial Amber-NH4CL	C
		60ml-Vial Amber-NH4CL	D
		60ml-Vial Amber-NH4CL	E

Client Sample ID: 12A - 23 Avalon Dr

Lab Sample ID: S3F0574-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/23/23 930 AM

Analysis	Method	Field Results/Comments	Hold Time
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Microbac Laboratories, Inc.

2369 Elmira Street | Sayre, PA 18840 | 570-888-0169 p | www.microbac.com

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Town of Chenango

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901
Phone: (607) 760-6240
greg.burden@townofchenango.com

Project Name: THM & HAA Testing

Project/PO Number: N/A
Tenatively Scheduled: 6/27/2023
Route:

524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)	14 days
524.2 VOC THM CALC PKG	varies	14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)	14 days
<u>Container(s)</u>		<u>Designator</u>
40ml-Vial-Na2S2O3		A
40ml-Vial-Na2S2O3		B
60ml-Vial Amber-NH4CL		C
60ml-Vial Amber-NH4CL		D
60ml-Vial Amber-NH4CL		E

Client Sample ID: Applewood - 29 Maplewood Dr

Lab Sample ID: S3F0574-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/23/23 11AM

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)		14 days
524.2 VOC THM CALC PKG	varies		14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)		14 days
<u>Container(s)</u>		<u>Designator</u>	
40ml-Vial-Na2S2O3		A	
40ml-Vial-Na2S2O3		B	
60ml-Vial Amber-NH4CL		C	
60ml-Vial Amber-NH4CL		D	
60ml-Vial Amber-NH4CL		E	

Client Sample ID: Run Acres - 73 Pamala Dr

Lab Sample ID: S3F0574-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/23/23 1130AM

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)		14 days
524.2 VOC THM CALC PKG	varies		14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)		14 days



Chain of Custody

Microbac Laboratories, Inc., Sayre Division

Lab Contact: Renee Lantz



S3F0574

Town of Chenango

Greg Burden
1529 NY ROUTE 12
Binghamton, NY 13901
Phone: (607) 760-6240
greg.burden@townofchenango.com

Project Name: THM & HAA Testing

Project/PO Number: N/A
Tenatively Scheduled: 6/27/2023
Route:

Container(s)	Designator
40ml-Vial-Na2S2O3	A
40ml-Vial-Na2S2O3	B
60ml-Vial Amber-NH4CL	C
60ml-Vial Amber-NH4CL	D
60ml-Vial Amber-NH4CL	E

Client Sample ID: Chenango Heights - 17 Pembroke Dr

Lab Sample ID: S3F0574-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/23 10 AM

Analysis	Method	Field Results/Comments	Hold Time
524.2 VOC THM	EPA 524.2, Rv. 4.1 (1995)		14 days
524.2 VOC THM CALC PKG	varies		14 days
552.2 HAA	EPA 552.2, Rv. 1 (1995)		14 days

Container(s)	Designator
40ml-Vial-Na2S2O3	A
40ml-Vial-Na2S2O3	B
60ml-Vial Amber-NH4CL	C
60ml-Vial Amber-NH4CL	D
60ml-Vial Amber-NH4CL	E

Sampled/Relinquished by: <i>Luke Mooney</i>	Date/Time: <i>Now</i>	Received by: <i>[Signature]</i>
Printed Name: <i>Luke Mooney</i>	<i>8/27/23 1211</i>	Printed Name: <i>J. Pahey</i>
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by: <i>[Signature]</i>
Printed Name:	<i>8/23/23 17:15</i>	Printed Name: <i>Kim Jones</i>

As Received at Laboratory: On Ice: ☒ Yes / No Temp: *5.9* °C Thermometer ID: *10* Custody Seal: Yes / No / NA ☒
Total Containers: 30.00

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes: