



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8F1307

Elmira Water Board

Project Name: NY Drinking Water

Rose Martino
One Fountain Drive
Elmira, NY 14905

Project / PO Number: N/A
Received: 06/19/2018
Reported: 06/29/2018

Analytical Testing Parameters

Client Sample ID: Foster Island #40

Sample Matrix: Drinking Water

Lab Sample ID: J8F1307-01

Collected By: RMM-Client

Collection Date: 06/15/2018 13:00

Metals, Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.7, Rv. 4.4/EPA 200.7, Rv 4.4

Manganese	0.180	0.3 NYVOA	0.0100	mg/L		06/26/18 1601	06/27/18 2316	NSF
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Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 524.2/EPA 524.2, Rv 4.1

Benzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH

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Page 1 of 7



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8F1307

Client Sample ID:	Foster Island #40	Collected By:	RAM Client
Sample Matrix:	Drinking Water	Collection Date:	06/15/2018 13:00
Lab Sample ID:	J8F1307-01		

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Styrene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Toluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			06/22/18 1814	RJH
m,p-Xylene	<1.00	5 NYVOA	1.00	ug/L	Y		06/22/18 1814	RJH
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		06/22/18 1814	RJH
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1814	RJH
Surrogate: 4-Bromofluorobenzene	78.6	Limit: 70-130		% Rec			06/22/18 1814	RJH
Surrogate: 1,2-Dichlorobenzene-d4	88.2	Limit: 70-130		% Rec			06/22/18 1814	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8F1307

Client Sample ID: Foster Island #41

Sample Matrix: Drinking Water

Lab Sample ID: J8F1307-02

Collected By: RMM-Client

Collection Date: 06/15/2018 13:10

Metals, Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.7, Rv. 4.4/EPA 200.7, Rv 4.4

Manganese	0.817	0.3 NYVOA	0.0100	mg/L		06/26/18 1601	06/27/18 2336	NSF
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Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 524.2/EPA 524.2, Rv 4.1

Benzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH

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Page 3 of 7



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8F1307

Client Sample ID: Foster Island #41

Sample Matrix: Drinking Water

Lab Sample ID: J8F1307-02

Collected By: RMM-Client

Collection Date: 06/15/2018 13:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Tetrachloroethene	0.750	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Toluene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			06/22/18 1841	RJH
m,p-Xylene	<1.00	5 NYVOA	1.00	ug/L	Y		06/22/18 1841	RJH
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		06/22/18 1841	RJH
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			06/22/18 1841	RJH
Surrogate: 4-Bromofluorobenzene	76.2	Limit: 70-130		% Rec			06/22/18 1841	RJH
Surrogate: 1,2-Dichlorobenzene-d4	86.0	Limit: 70-130		% Rec			06/22/18 1841	RJH