



*State of Tennessee*

**DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES**

*Certifies That*

**Microbac Laboratories–New England Div, Dayville, CT**

*Having Met the Requirements of the Regulations for the  
Certification of Laboratories Analyzing Drinking Water  
is hereby Approved as a*

**State Certified Laboratory in Chemistry**

*To perform the Analyses as Indicated on the Certified Parameter  
List For the Public Water Systems of Tennessee*

**Laboratory ID Number 04903**

Prasad Subbanna  
Laboratory Certification Officer  
Division of Water Resources

Issue Date: 09/30/19

Expiration Date: 09/30/20

*This certification is subject to performance on E.P.A.  
Performance Evaluation Samples, laboratory inspections,  
payment of annual fees, is nontransferable, and  
supersedes previously issued certificates*

# Certified Parameters - 2018

TENNESSEE

Microbac - New England Division

TN04903

EPA # CT00008

10/4/2019

Attn: Melisa Montgomery  
 61 Louisa Viens Drive  
 Dayville, CT 06241

Parameter	EPA Parameter #	Approved Method	Study Type	Date Complete	PT Provider / WS #
<b>Disinfectant Residuals</b>					
Free Chlorine Residual	1013	SM - 4500-Cl G	Proficiency Test	5/19/2018	ABS / QTA2018
<b>Disinfection By-Products</b>					
<b>HAA</b>					
Dibromoacetic Acid (HAA5)	2454	EPA - 552.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Dichloroacetic Acid (HAA5)	2451	EPA - 552.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Monobromoacetic Acid (HAA5)	2453	EPA - 552.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Monochloroacetic Acid (HAA5)	2450	EPA - 552.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Trichloroacetic Acid (HAA5)	2452	EPA - 552.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>THM</b>					
Bromodichloromethane	2943	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Bromoform	2942	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chlorodibromomethane	2944	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chloroform	2941	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>Herbicides</b>					
2,4,5-TP (Silvex)	2110	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
2,4-D	2105	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
Alachlor	2051	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Alachlor	2051	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Dalapon	2031	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
Dinoseb	2041	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
Diquat	2032	EPA - 549.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Glyphosate	2034	EPA - 547	Proficiency Test	5/17/2018	NY-DH / ELAP412
Picloram	2040	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
Pentachlorophenol	2326	EPA - 515.3	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>Inorganics</b>					
Alkalinity	1928	SM - 2320 B	Proficiency Test	5/17/2018	NY-DH / ELAP412
Calcium	1016	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chloride	1017	SM - 4500-Cl-E	Proficiency Test	5/17/2018	NY-DH / ELAP412
Conductivity	1064	SM - 2510 B	Proficiency Test	5/17/2018	NY-DH / ELAP412

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Cyanide	1024	SM - 4500-CN-E	Proficiency Test	5/17/2018	NY-DH / ELAP412
Fluoride	1025	SM - 4500-F-C	Proficiency Test	5/17/2018	NY-DH / ELAP412
Iron	1028	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
MBAS (Foaming Agent)	1089	SM - 5540 C	Proficiency Test	5/17/2018	NY-DH / ELAP412
Nitrate	1040	SM - 4500-NO3-F	Proficiency Test	5/17/2018	NY-DH / ELAP412
Nitrite	1041	SM - 4500-NO3-F	Proficiency Test	5/17/2018	NY-DH / ELAP412
Ortho-phosphate	1044	EPA - 365.1	Proficiency Test	5/17/2018	NY-DH / ELAP412
pH	1925	SM - 4500-H+B	Proficiency Test	5/19/2018	ABS / QTA2018
Potassium	1042	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Silica	1049	SM - 4500-Si-E	Proficiency Test	5/17/2018	NY-DH / ELAP412
Sodium	1052	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Sulfate	1055	SM - 4500-SO4 E	Proficiency Test	5/17/2018	NY-DH / ELAP412
TDS	1930	SM - 2540 C	Proficiency Test	5/17/2018	NY-DH / ELAP412
TOC (total organic carbon)	2920	SM - 5310 C	Proficiency Test	5/19/2018	ABS / QTA2018

**Metals**

Antimony	1074	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Arsenic	1005	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Barium	1010	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Beryllium	1075	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Beryllium	1075	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Cadmium	1015	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Cadmium	1015	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chromium	1020	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chromium	1020	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Copper	1022	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Copper	1022	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Lead	5000	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Magnesium	1031	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Manganese	1032	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Manganese	1032	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Mercury	1035	EPA - 245.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Nickel	1036	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Nickel	1036	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Selenium	1045	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Thallium	1085	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Aluminum	1002	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Silver	1050	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Silver	1050	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Zinc	1095	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Zinc	1095	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
<b>Organics</b>					
PCBs (as Aroclors)	2383	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
DBCP (Dibromochloropropane)	2931	EPA - 504.1	Proficiency Test	5/17/2018	NY-DH / ELAP412
EDB (Ethylene dibromide)	2946	EPA - 504.1	Proficiency Test	5/17/2018	NY-DH / ELAP412
bis(2-ethylhexyl)adipate	2035	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
bis(2-ethylhexyl)phthalate	2039	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>Pesticides</b>					
Atrazine	2050	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorocyclopentadiene	2042	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorocyclopentadiene	2042	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Carbofuran	2046	EPA - 531.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chlordane	2959	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Endrin	2005	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Endrin	2005	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Heptachlor	2065	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Heptachlor	2065	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Heptachlor Epoxide	2067	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Heptachlor Epoxide	2067	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorobenzene	2274	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorobenzene	2274	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Lindane	2010	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Lindane	2010	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Methoxychlor	2015	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Methoxychlor	2015	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Oxamyl (Vydate)	2036	EPA - 531.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Simazine	2037	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Toxaphene	2020	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>Radiological</b>					
Uranium (Radioactive)	4400	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
<b>VOCs - Regulated</b>					
1,1,1-Trichloroethane	2981	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,1,2-Trichloroethane	2985	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,1-Dichloroethylene	2977	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,2,4-Trichlorobenzene	2378	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,2-Dichlorobenzene	2968	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
1,2-Dichloroethane	2980	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,2-Dichloropropane	2983	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
1,4-Dichlorobenzene	2969	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Benzene	2990	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Carbon Tetrachloride	2982	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chlorobenzene	2989	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
cis-1,2-Dichloroethylene	2380	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Ethylbenzene	2992	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Methylene chloride (dichloromethane)	2964	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Styrene	2996	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Tetrachloroethylene	2987	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Toluene	2991	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Total Xylenes	2955	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
trans-1,2-dichloroethylene	2979	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Trichloroethylene	2984	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Vinyl Chloride	2976	EPA - 524.2	Proficiency Test	5/17/2018	NY-DH / ELAP412

#### **VOCs - Synthetics**

Benzo(a)pyrene	2306	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
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