



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

Prasad Subbanna
Laboratory Certification Officer
Division of Water Resources

Effective Date: 10/1/18

Issue Date: 10/19/18

Expiration Date: 09/30/19

*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

10/22/2018

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

Parameter	EPA Parameter #	Approved Method	Study Type	Date Complete	PT Provider / WS #
Disinfection By-Products					
HAA					
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
THM					
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
Herbicides					
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
Inorganics					
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
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

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
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
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
Turbidity	0100	SM - 2130 B	Proficiency Test	5/17/2018	NY-DH / ELAP412

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 - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
Cadmium	1015	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chromium	1020	EPA - 200.7	Proficiency Test	5/17/2018	NY-DH / ELAP412
Chromium	1020	EPA - 200.8	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

Organics

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

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
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

Pesticides

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 - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Heptachlor Epoxide	2067	EPA - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorobenzene	2274	EPA - 525.2	Proficiency Test	5/17/2018	NY-DH / ELAP412
Hexachlorobenzene	2274	EPA - 505	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 - 505	Proficiency Test	5/17/2018	NY-DH / ELAP412
Methoxychlor	2015	EPA - 525.2	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

Radiological

Uranium (Radioactive)	4400	EPA - 200.8	Proficiency Test	5/17/2018	NY-DH / ELAP412
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VOCs - Regulated

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
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

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
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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