



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

Issue/Effective Date: 1/16/2024

Expiration Date: 1/15/2025

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

Certified Parameters - 2023

TENNESSEE

Microbac - New England Division

TN04903

EPA # CT00008

1/19/2024

Attn: Lexie White
61 Louisa Viens Drive
Dayville, CT 06241

Parameter	EPA Parameter #	Approved Method	Study Type	Date Complete	PT Provider / WS #
Disinfectant Residuals					
Free Chlorine Residual	1013	SM - 4500-Cl G	Proficiency Test	4/24/2023	ABS / QTA 031023
Total Chlorine Residual	1012	SM - 4500-Cl G	Proficiency Test	4/24/2023	ABS / QTA 031023
Disinfection By-Products					
HAA					
Dibromoacetic Acid (HAA5)	2454	EPA - 552.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Dichloroacetic Acid (HAA5)	2451	EPA - 552.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Monobromoacetic Acid (HAA5)	2453	EPA - 552.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Monochloroacetic Acid (HAA5)	2450	EPA - 552.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Trichloroacetic Acid (HAA5)	2452	EPA - 552.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
THM					
Bromodichloromethane	2943	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Bromoform	2942	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chlorodibromomethane	2944	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chloroform	2941	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Herbicides					
2,4,5-TP (Silvex)	2110	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
2,4-D	2105	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
Alachlor	2051	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Alachlor	2051	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Dalapon	2031	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
Dinoseb	2041	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
Diquat	2032	EPA - 549.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Glyphosate	2034	EPA - 547	Proficiency Test	5/18/2023	NY-DH / ELAP462
Picloram	2040	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
Pentachlorophenol	2326	EPA - 515.3	Proficiency Test	5/18/2023	NY-DH / ELAP462
Inorganics					
Calcium	1016	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chloride	1017	EPA - 300.0	Proficiency Test	4/24/2023	ABS / QTA 031023
Chloride	1017	SM - 4500-Cl-E	Proficiency Test	5/18/2023	NY-DH / ELAP462

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Color	1905	SM - 2120 B	Proficiency Test	4/24/2023	ABS / QTA 031023
Conductivity	1064	SM - 2510 B	Proficiency Test	5/18/2023	NY-DH / ELAP462
Cyanide	1024	EPA - 335.4	Proficiency Test	5/18/2023	NY-DH / ELAP462
Fluoride	1025	EPA - 300.0	Proficiency Test	4/24/2023	ABS / QTA 031023
Fluoride	1025	SM - 4500-F-C	Proficiency Test	5/18/2023	NY-DH / ELAP462
Hardness, Total (as CaCO3)	1915	SM - 2340C	Proficiency Test	4/24/2023	ABS / QTA 031023
Iron	1028	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
MBAS (Foaming Agent)	1089	SM - 5540 C	Proficiency Test	4/24/2023	ABS / QTA 031023
Nitrate	1040	EPA - 300.0	Proficiency Test	4/24/2023	ABS / QTA 031023
Nitrate	1040	SM - 4500-NO3-F	Proficiency Test	5/18/2023	NY-DH / ELAP462
Nitrite	1041	EPA - 300.0	Proficiency Test	4/24/2023	ABS / QTA 031023
Nitrite	1041	SM - 4500-NO3-F	Proficiency Test	5/18/2023	NY-DH / ELAP462
Ortho-phosphate	1044	EPA - 365.1	Proficiency Test	5/18/2023	NY-DH / ELAP462
pH	1925	SM - 4500-H+B	Proficiency Test	4/24/2023	ABS / QTA 031023
Potassium	1042	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Silica	1049	SM - 4500-Si-E	Proficiency Test	5/18/2023	NY-DH / ELAP462
Sodium	1052	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Sulfate	1055	EPA - 300.0	Proficiency Test	4/24/2023	ABS / QTA 031023
Sulfate	1055	SM - 4500-SO4 E	Proficiency Test	5/18/2023	NY-DH / ELAP462
Total Dissolved Solids	1930	SM - 2540 C	Proficiency Test	5/18/2023	NY-DH / ELAP462
Total Organic Carbon(TOC)	2920	SM - 5310 C	Proficiency Test	4/24/2023	ABS / QTA 031023
Turbidity	0100	SM - 2130 B	Proficiency Test	5/18/2023	NY-DH / ELAP462
Alkalinity, Total	1927	SM - 2320 B	Proficiency Test	5/18/2023	NY-DH / ELAP462

Metals

Antimony	1074	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Arsenic	1005	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Barium	1010	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Barium	1010	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Beryllium	1075	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Beryllium	1075	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Cadmium	1015	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Cadmium	1015	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chromium	1020	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chromium	1020	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Copper	1022	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Copper	1022	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Lead	5000	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Magnesium	1031	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Manganese	1032	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Manganese	1032	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Mercury	1035	EPA - 245.1	Proficiency Test	5/18/2023	NY-DH / ELAP462

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Mercury	1035	EPA - 200.8	Proficiency Test	4/24/2023	ABS / QTA 031023
Nickel	1036	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Nickel	1036	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Nickel	1036	EPA - 200.5	Proficiency Test	5/18/2023	NY-DH / ELAP462
Selenium	1045	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Thallium	1085	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Aluminum	1002	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Aluminum	1002	EPA - 200.7	Proficiency Test	4/24/2023	ABS / QTA 031023
Silver	1050	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Silver	1050	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462
Zinc	1095	EPA - 200.8	Proficiency Test	5/18/2023	NY-DH / ELAP462
Zinc	1095	EPA - 200.7	Proficiency Test	5/18/2023	NY-DH / ELAP462

Organics

Aldicarb	2047	EPA - 531.2	Proficiency Test	6/27/2023	ABS / QTA 061223
Aldicarb Sulfone	2044	EPA - 531.2	Proficiency Test	6/27/2023	ABS / QTA 061223
Aldicarb Sulfoxide	2043	EPA - 531.2	Proficiency Test	6/27/2023	ABS / QTA 061223
PCBs (as Aroclors)	2383	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
DBCP (Dibromochloropropane)	2931	EPA - 504.1	Proficiency Test	5/18/2023	NY-DH / ELAP462
EDB (Ethylene dibromide)	2946	EPA - 504.1	Proficiency Test	5/18/2023	NY-DH / ELAP462
bis(2-ethylhexyl)phthalate	2039	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Di(2-ethylhexyl)adipate	2035	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462

Pesticides

Atrazine	2050	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Hexachlorocyclopentadiene	2042	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Hexachlorocyclopentadiene	2042	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Carbofuran	2046	EPA - 531.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chlordane	2959	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Endrin	2005	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Endrin	2005	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Heptachlor	2065	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Heptachlor	2065	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Heptachlor Epoxide	2067	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Heptachlor Epoxide	2067	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Hexachlorobenzene	2274	EPA - 525.2	Proficiency Test	5/18/2003	NY-DH / ELAP462
Hexachlorobenzene	2274	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Lindane	2010	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Lindane	2010	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Methoxychlor	2015	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Methoxychlor	2015	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462
Oxamyl (Vydate)	2036	EPA - 531.2	Proficiency Test	6/27/2023	ABS / QTA 061223
Simazine	2037	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Toxaphene	2020	EPA - 505	Proficiency Test	5/18/2023	NY-DH / ELAP462

VOCs - Regulated

1,1,1-Trichloroethane	2981	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,1,2-Trichloroethane	2985	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,1-Dichloroethylene	2977	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,2,4-Trichlorobenzene	2378	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,2-Dichlorobenzene	2968	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,2-Dichloroethane	2980	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,2-Dichloropropane	2983	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
1,4-Dichlorobenzene	2969	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Benzene	2990	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Carbon Tetrachloride	2982	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Chlorobenzene	2989	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
cis-1,2-Dichloroethylene	2380	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Ethylbenzene	2992	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Methylene chloride (dichloromethane)	2964	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Styrene	2996	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Tetrachloroethylene	2987	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Toluene	2991	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Total Xylenes	2955	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
trans-1,2-dichloroethylene	2979	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Trichloroethylene	2984	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
Vinyl Chloride	2976	EPA - 524.2	Proficiency Test	5/18/2023	NY-DH / ELAP462

VOCs - Synthetics

Benzo(a)pyrene	2306	EPA - 525.2	Proficiency Test	5/18/2023	NY-DH / ELAP462
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