



The State of Tennessee

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF WATER RESOURCES

Certifies That

Microbac Laboratory – Knoxville Division

*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 and Microbiology

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

Laboratory ID Number 02017

Prasad Subbanna
Laboratory Certification Program Manager
Tennessee Division of Water Resources

Issue Date: 10/11/2022

Expiration Date: 9/12/2025

*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 - Knoxville Division

TN02017

EPA # TN00018

5/26/2023

Attn: T.J. McCallum
 505 East Broadway Avenue
 Maryville, TN 37804

Parameter	EPA Parameter #	Approved Method	Study Type	Date Complete	PT Provider / WS #
Disinfectant Residuals					
Free Chlorine Residual	1013	SM - 4500-Cl G	Proficiency Test	2/23/2023	ERA / WS-318
Total Chlorine Residual	1012	SM - 4500-Cl G	Proficiency Test	2/23/2023	ERA / WS-318
Disinfection By-Products					
UV 254 Absorbance	2922	SM - 5910 B	Proficiency Test	2/23/2023	ERA / WS-318
Inorganics					
Calcium	1016	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Chloride	1017	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Color	1905	SM - 2120 B	Proficiency Test	2/23/2023	ERA / WS-318
Fluoride	1025	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Iron	1028	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Nitrate	1040	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Nitrate + Nitrite	1038	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Nitrite	1041	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Odor	1920	SM - 2150 B	Proficiency Test	5/5/2023	RTC / WS23-2
Ortho-phosphate	1044	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
pH	1925	SM - 4500-H+B	Proficiency Test	2/23/2023	ERA / WS-318
Potassium	1042	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Silica	1049	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Sodium	1052	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Sulfate	1055	EPA - 300.0	Proficiency Test	2/23/2023	ERA / WS-318
Total Dissolved Solids	1930	SM - 2540 C	Proficiency Test	2/23/2023	ERA / WS-318
Turbidity	0100	EPA - 180.1	Proficiency Test	2/23/2023	ERA / WS-318
Alkalinity, Total	1927	SM - 2320 B	Proficiency Test	2/23/2023	ERA / WS-318
Metals					
Antimony	1074	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Arsenic	1005	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Barium	1010	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Barium	1010	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318

<u>Parameter</u>	<u>EPA Parameter #</u>	<u>Approved Method</u>	<u>Study Type</u>	<u>Date Complete</u>	<u>PT Provider / WS #</u>
Beryllium	1075	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Beryllium	1075	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Cadmium	1015	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Cadmium	1015	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Chromium	1020	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Chromium	1020	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Copper	1022	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Copper	1022	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Lead	5000	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Magnesium	1031	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Manganese	1032	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Manganese	1032	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Mercury	1035	EPA - 245.1	Proficiency Test	2/23/2023	ERA / WS-318
Nickel	1036	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Nickel	1036	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Selenium	1045	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Thallium	1085	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Aluminum	1002	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Aluminum	1002	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Silver	1050	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Silver	1050	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318
Zinc	1095	EPA - 200.7	Proficiency Test	2/23/2023	ERA / WS-318
Zinc	1095	EPA - 200.8	Proficiency Test	2/23/2023	ERA / WS-318

Microbiologicals

Escherichia coli, Colilert	3014	SM - 9223	Proficiency Test	2/23/2023	ERA / WS-318
Heterotrophic Bacteria, Pour plate metho	3001	SM - 9215 B	Proficiency Test	2/23/2023	ERA / WS-318
Total Coliform, Colilert	3000	SM - 9223	Proficiency Test	2/23/2023	ERA / WS-318