

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

Certifies That

02-00257

Microbac Laboratories, Inc. Pittsburgh Division  
100 Marshall Drive, Warrendale, PA, 15086-7554

Having duly met the requirement of  
The act of June 29, 2002 (P.L. 596, No. 90)  
dealing with Environmental Laboratories Accreditation  
(27 Pa. C.S. 4104-4113) and the  
National Environmental Laboratory Accreditation Program Standard  
is hereby approved as an

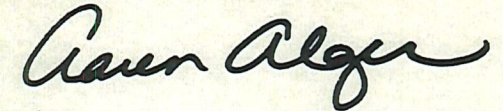
Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: 07/31/2020

Certificate Number: 019



Aaren S. Alger, Chief  
Laboratory Accreditation Program  
Bureau of Laboratories



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION



Continued accreditation status depends on successful ongoing participation in the program  
Certificate not transferable Surrender upon revocation  
To be conspicuously displayed at the Laboratory  
Not valid unless accompanied by a valid Scope of Accreditation  
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania  
Customers are urged to verify the laboratory's current accreditation status  
PA DEP is a NELAP recognized accreditation body

Attached to Certificate of Accreditation 019-005 expiration date 07/31/2020. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

**Microbac Laboratories, Inc. Pittsburgh Division**  
**100 Marshall Drive**  
**Warrendale, PA 15086-7554**  
**(724) 772-0610**

**DEP Laboratory ID: 02-00257**  
**EPA Lab Code: PA00052**  
**TNI Code: TNI02133**  
**PADWIS ID: 02257**

**Matrix: Drinking Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 1664	A	Non-polar material	NELAP	PA	09/19/2018
EPA 1664	A	Oil and grease	NELAP	PA	09/19/2018
EPA 180.1		Turbidity	NELAP	PA	09/19/2018
EPA 200.7	4.4	Aluminum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Barium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Beryllium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Boron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cadmium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Calcium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Chromium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cobalt	NELAP	PA	09/19/2018
EPA 200.7	4.4	Copper	NELAP	PA	09/19/2018
EPA 200.7	4.4	Iron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Magnesium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Manganese	NELAP	PA	09/19/2018
EPA 200.7	4.4	Molybdenum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Nickel	NELAP	PA	09/19/2018
EPA 200.7	4.4	Phosphorus, total	NELAP	PA	09/19/2018
EPA 200.7	4.4	Potassium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Silver	NELAP	PA	09/19/2018
EPA 200.7	4.4	Sodium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Strontium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Tin	NELAP	PA	09/19/2018
EPA 200.7	4.4	Titanium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Vanadium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Zinc	NELAP	PA	09/19/2018
EPA 200.8	5.4	Antimony	NELAP	PA	12/26/2019
EPA 200.8	5.4	Arsenic	NELAP	PA	12/26/2019
EPA 200.8	5.4	Barium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Beryllium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Cadmium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Chromium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Cobalt	NELAP	PA	12/26/2019
EPA 200.8	5.4	Copper	NELAP	PA	12/26/2019
EPA 200.8	5.4	Lead	NELAP	PA	12/26/2019
EPA 200.8	5.4	Manganese	NELAP	PA	12/26/2019
EPA 200.8	5.4	Molybdenum	NELAP	PA	12/26/2019
EPA 200.8	5.4	Nickel	NELAP	PA	12/26/2019
EPA 200.8	5.4	Selenium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Silver	NELAP	PA	12/26/2019
EPA 200.8	5.4	Thallium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Vanadium	NELAP	PA	12/26/2019

*Dana T. Mansell*

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**Microbac Laboratories, Inc. Pittsburgh Division**  
100 Marshall Drive  
Warrendale, PA 15086-7554  
(724) 772-0610

**DEP Laboratory ID: 02-00257**  
**EPA Lab Code: PA00052**  
**TNI Code: TNI02133**  
**PADWIS ID: 02257**

**Matrix: Drinking Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 200.8	5.4	Zinc	NELAP	PA	12/26/2019
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrite as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Orthophosphate as P	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
HACH 8000		Chemical oxygen demand (COD)	NELAP	PA	09/19/2018
SM 2120 B		Color	NELAP	PA	09/19/2018
SM 2320 B		Alkalinity as CaCO3	NELAP	PA	09/19/2018
SM 2510 B		Conductivity	NELAP	PA	09/19/2018
SM 2540 C		Residue, filterable (TDS)	NELAP	PA	09/19/2018
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	PA	09/19/2018
SM 4500-Cl G		Residual free chlorine	NELAP	PA	09/19/2018
SM 4500-Cl G		Total residual chlorine	NELAP	PA	09/19/2018
SM 4500-H+ B		pH	NELAP	PA	09/19/2018
SM 4500-NH3 B		Ammonia distillation	NELAP	PA	01/18/2019
SM 4500-NH3 F	19-22	Ammonia as N	NELAP	PA	01/18/2019
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	PA	09/19/2018
SM 4500-P E		Orthophosphate as P	NELAP	PA	09/19/2018
SM 4500-P E		Phosphorus, total	NELAP	PA	09/19/2018
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	PA	09/19/2018
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	PA	09/19/2018
SM 5310 C		Total organic carbon (TOC)	NELAP	PA	09/19/2018
SM 9215 B		Heterotrophic bacteria (Enumeration)	NELAP	PA	07/26/2018
SM 9223 Colilert		Total coliform & E. coli (P/A)	NELAP	PA	07/26/2018
SM 9223 Colilert MPN or QT		E. coli (Enumeration)	NELAP	PA	07/26/2018
SM 9223 Colilert MPN or QT		Total coliform (Enumeration)	NELAP	PA	07/26/2018

**Matrix: Non-Potable Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
Colilert 18/Quantitray		Fecal coliform (Enumeration)	NELAP	PA	07/26/2018
EPA 160.4		Residue, volatile	NELAP	PA	09/19/2018
EPA 1664	A	Non-polar material	NELAP	PA	09/19/2018
EPA 1664	A	Oil and grease	NELAP	PA	09/19/2018
EPA 180.1		Turbidity	NELAP	PA	09/19/2018
EPA 200.7	4.4	Aluminum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Antimony	NELAP	PA	09/19/2018
EPA 200.7	4.4	Arsenic	NELAP	PA	09/19/2018

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**TNI Code: TNI02133**  
**PADWIS ID: 02257**

**Matrix: Non-Potable Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 200.7	4.4	Barium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Beryllium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Boron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cadmium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Calcium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Chromium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cobalt	NELAP	PA	09/19/2018
EPA 200.7	4.4	Copper	NELAP	PA	09/19/2018
EPA 200.7	4.4	Iron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Lead	NELAP	PA	09/19/2018
EPA 200.7	4.4	Lithium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Magnesium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Manganese	NELAP	PA	09/19/2018
EPA 200.7	4.4	Molybdenum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Nickel	NELAP	PA	09/19/2018
EPA 200.7	4.4	Potassium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Selenium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Silica, as SiO2	NELAP	PA	09/19/2018
EPA 200.7	4.4	Silver	NELAP	PA	09/19/2018
EPA 200.7	4.4	Sodium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Strontium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Tin	NELAP	PA	09/19/2018
EPA 200.7	4.4	Titanium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Vanadium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Zinc	NELAP	PA	09/19/2018
EPA 200.8	5.4	Antimony	NELAP	PA	12/26/2019
EPA 200.8	5.4	Arsenic	NELAP	PA	12/26/2019
EPA 200.8	5.4	Barium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Beryllium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Cadmium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Chromium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Cobalt	NELAP	PA	12/26/2019
EPA 200.8	5.4	Copper	NELAP	PA	12/26/2019
EPA 200.8	5.4	Lead	NELAP	PA	12/26/2019
EPA 200.8	5.4	Manganese	NELAP	PA	12/26/2019
EPA 200.8	5.4	Molybdenum	NELAP	PA	12/26/2019
EPA 200.8	5.4	Nickel	NELAP	PA	12/26/2019
EPA 200.8	5.4	Selenium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Silver	NELAP	PA	12/26/2019
EPA 200.8	5.4	Thallium	NELAP	PA	12/26/2019
EPA 200.8	5.4	Vanadium	NELAP	PA	12/26/2019
EPA 300.0	2.1	Bromide	NELAP	PA	04/23/2019

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**PADWIS ID: 02257**

**Matrix: Non-Potable Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrite as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Orthophosphate as P	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
EPA 3010	A	Hot plate acid digestion (HNO <sub>3</sub> + HCl)	NELAP	PA	09/19/2018
EPA 6010	D	Metals by ICP/AES	NELAP	PA	07/02/2019
EPA 6010	D	Aluminum	NELAP	PA	09/19/2018
EPA 6010	D	Antimony	NELAP	PA	09/19/2018
EPA 6010	D	Arsenic	NELAP	PA	09/19/2018
EPA 6010	D	Barium	NELAP	PA	09/19/2018
EPA 6010	D	Beryllium	NELAP	PA	09/19/2018
EPA 6010	D	Boron	NELAP	PA	09/19/2018
EPA 6010	D	Cadmium	NELAP	PA	09/19/2018
EPA 6010	D	Calcium	NELAP	PA	09/19/2018
EPA 6010	D	Chromium	NELAP	PA	09/19/2018
EPA 6010	D	Cobalt	NELAP	PA	09/19/2018
EPA 6010	D	Copper	NELAP	PA	09/19/2018
EPA 6010	D	Iron	NELAP	PA	09/19/2018
EPA 6010	D	Lead	NELAP	PA	09/19/2018
EPA 6010	D	Lithium	NELAP	PA	09/19/2018
EPA 6010	D	Magnesium	NELAP	PA	09/19/2018
EPA 6010	D	Manganese	NELAP	PA	09/19/2018
EPA 6010	D	Molybdenum	NELAP	PA	09/19/2018
EPA 6010	D	Nickel	NELAP	PA	09/19/2018
EPA 6010	D	Potassium	NELAP	PA	09/19/2018
EPA 6010	D	Selenium	NELAP	PA	09/19/2018
EPA 6010	D	Silica, as SiO <sub>2</sub>	NELAP	PA	09/19/2018
EPA 6010	D	Silver	NELAP	PA	09/19/2018
EPA 6010	D	Sodium	NELAP	PA	09/19/2018
EPA 6010	D	Strontium	NELAP	PA	09/19/2018
EPA 6010	D	Tin	NELAP	PA	09/19/2018
EPA 6010	D	Titanium	NELAP	PA	09/19/2018
EPA 6010	D	Vanadium	NELAP	PA	09/19/2018
EPA 6010	D	Zinc	NELAP	PA	09/19/2018
EPA 6020	B	Metals by ICP/MS	NELAP	PA	12/26/2019
EPA 6020	B	Antimony	NELAP	PA	12/26/2019
EPA 6020	B	Arsenic	NELAP	PA	12/26/2019
EPA 6020	B	Barium	NELAP	PA	12/26/2019
EPA 6020	B	Beryllium	NELAP	PA	12/26/2019
EPA 6020	B	Cadmium	NELAP	PA	12/26/2019

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**DEP Laboratory ID: 02-00257**  
**EPA Lab Code: PA00052**  
**TNI Code: TNI02133**  
**PADWIS ID: 02257**

**Matrix: Non-Potable Water**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 6020	B	Chromium	NELAP	PA	12/26/2019
EPA 6020	B	Cobalt	NELAP	PA	12/26/2019
EPA 6020	B	Copper	NELAP	PA	12/26/2019
EPA 6020	B	Lead	NELAP	PA	12/26/2019
EPA 6020	B	Manganese	NELAP	PA	12/26/2019
EPA 6020	B	Molybdenum	NELAP	PA	12/26/2019
EPA 6020	B	Nickel	NELAP	PA	12/26/2019
EPA 6020	B	Selenium	NELAP	PA	12/26/2019
EPA 6020	B	Silver	NELAP	PA	12/26/2019
EPA 6020	B	Thallium	NELAP	PA	12/26/2019
EPA 6020	B	Vanadium	NELAP	PA	12/26/2019
EPA 7196		Chromium VI	NELAP	PA	09/19/2018
HACH 8000		Chemical oxygen demand (COD)	NELAP	PA	09/19/2018
SM 2120 B		Color	NELAP	PA	09/19/2018
SM 2310 B		Acidity as CaCO3	NELAP	PA	09/19/2018
SM 2320 B		Alkalinity as CaCO3	NELAP	PA	09/19/2018
SM 2510 B		Conductivity	NELAP	PA	09/19/2018
SM 2540 B		Residue, total	NELAP	PA	09/19/2018
SM 2540 C		Residue, filterable (TDS)	NELAP	PA	09/19/2018
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	PA	09/19/2018
SM 2540 E		Residue, volatile	NELAP	PA	09/19/2018
SM 2540 F		Residue, settleable	NELAP	PA	09/19/2018
SM 3500-Cr B	20-22	Chromium VI	NELAP	PA	09/19/2018
SM 4500-Cl G		Free chlorine	NELAP	PA	09/19/2018
SM 4500-Cl G		Total residual chlorine	NELAP	PA	09/19/2018
SM 4500-H+ B		pH	NELAP	PA	09/19/2018
SM 4500-NH3 B		Ammonia distillation	NELAP	PA	09/19/2018
SM 4500-NH3 F	19-22	Ammonia as N	NELAP	PA	09/19/2018
SM 4500-NH3 F	19-22	Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018
SM 4500-Norg C		Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018
SM 4500-O G		Oxygen (dissolved)	NELAP	PA	09/19/2018
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	PA	09/19/2018
SM 4500-P E		Orthophosphate as P	NELAP	PA	09/19/2018
SM 4500-P E		Phosphorus, total	NELAP	PA	09/19/2018
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	PA	09/19/2018
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	PA	09/19/2018
SM 5310 C		Total organic carbon (TOC)	NELAP	PA	09/19/2018

**Matrix: Solid and Chemical Materials**

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
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**Matrix: Solid and Chemical Materials**

<b>Method</b>	<b>Revision</b>	<b>Analyte</b>	<b>Accreditation Type</b>	<b>Primary State</b>	<b>Effective Date</b>
ASTM D3987-85		Shake extraction of solid waste with water	NELAP	PA	09/19/2018
EPA 160.4		Residue, volatile	NELAP	PA	09/19/2018
EPA 300.0	2.1	Bromide	NELAP	PA	09/19/2018
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
EPA 3010	A	Hot plate acid digestion (HNO <sub>3</sub> + HCl)	NELAP	PA	09/19/2018
EPA 3050	B	Acid digestion of solids	NELAP	PA	09/19/2018
EPA 9045		pH	NELAP	PA	09/19/2018
SM 2540 G		Residue, total	NELAP	PA	09/19/2018
SM 4500-NH <sub>3</sub> B		Ammonia distillation	NELAP	PA	04/23/2019
SM 4500-NH <sub>3</sub> F	19-22	Ammonia as N	NELAP	PA	11/27/2019
SM 4500-NH <sub>3</sub> F	19-22	Kjeldahl nitrogen	NELAP	PA	09/19/2018
SM 4500-Norg C		Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018

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