

**Laboratory Scope of Accreditation** Page 1 of 8

Attachment to Certificate of Accreditation 010, expiration date January 31, 2013. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

State Laboratory ID: 25-00067

EPA Lab Code: PA00087

(814) 825-8533

Microbac Laboratories - Erie  
1962 Wager Road  
Erie, PA 16509

**Program Drinking Water**

Method	Analyte	Accreditation Type	Primary	Effective Date
EPA 120.1	Conductivity	NELAP	PA	12/14/2006
EPA 1603	E. coli (Enumeration)	NELAP	PA	1/31/2008
EPA 1664 Rev A	Oil and grease	NELAP	PA	5/23/2011
EPA 180.1	Turbidity	NELAP	PA	10/16/2006
EPA 200.7	Aluminum	NELAP	PA	1/22/2008
EPA 200.7	Barium	NELAP	PA	8/15/2002
EPA 200.7	Beryllium	NELAP	PA	8/15/2002
EPA 200.7	Cadmium	NELAP	PA	8/15/2002
EPA 200.7	Calcium	NELAP	PA	8/15/2002
EPA 200.7	Calcium hardness as CaCO <sub>3</sub>	NELAP	PA	7/18/2006
EPA 200.7	Chromium	NELAP	PA	8/15/2002
EPA 200.7	Copper	NELAP	PA	8/15/2002
EPA 200.7	Iron	NELAP	PA	12/21/2005
EPA 200.7	Magnesium	NELAP	PA	12/14/2006
EPA 200.7	Manganese	NELAP	PA	12/21/2005
EPA 200.7	Nickel	NELAP	PA	10/30/2006
EPA 200.7	Silver	NELAP	PA	8/15/2002
EPA 200.7	Sodium	NELAP	PA	8/15/2002
EPA 200.7	Strontium	NELAP	PA	5/23/2011
EPA 200.7	Total hardness as CaCO <sub>3</sub>	NELAP	PA	12/21/2005
EPA 200.7	Zinc	NELAP	PA	12/21/2005
EPA 200.9	Thallium	NELAP	PA	8/15/2002
EPA 335.4 (discrete)	Cyanide	NELAP	PA	7/10/2008
EPA 353.2 (discrete)	Nitrate as N	NELAP	PA	7/10/2008
EPA 353.2 (discrete)	Nitrite as N	NELAP	PA	7/10/2008
EPA 353.2 (discrete)	Total nitrate-nitrite	NELAP	PA	12/21/2009
EPA 365.1 (discrete)	Orthophosphate as P	NELAP	PA	12/21/2009
SM 2120 B	Color	NELAP	PA	8/15/2006
SM 2150 B	Odor	NELAP	PA	2/2/2011
SM 2320 B	Alkalinity as CaCO <sub>3</sub>	NELAP	PA	8/19/2002
SM 2330 B	Corrosivity (Langlier index)	NELAP	PA	8/15/2006
SM 2510 B	Conductivity	NELAP	PA	11/1/2010
SM 2540 C	Total dissolved solids (TDS)	NELAP	PA	8/19/2002
SM 2540 D	Residue, nonfilterable (TSS)	NELAP	PA	5/23/2011
SM 2550 B	Temperature, deg. C	NELAP	PA	10/16/2006
SM 3112 B	Mercury	NELAP	PA	8/19/2002

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized accrediting authority. Customers are urged to verify the laboratory's current accreditation standing.

[www.dep.state.pa.us](http://www.dep.state.pa.us)

Issue Date: 01/11/2012



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EPA Lab Code:

PA00087

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Microbac Laboratories - Erie  
1962 Wager Road  
Erie, PA 16509

**Program Drinking Water**

Method	Analyte	Accreditation Type	Primary	Effective Date
SM 3113 B	Antimony	NELAP	PA	8/19/2002
SM 3113 B	Arsenic	NELAP	PA	7/18/2006
SM 3113 B	Lead	NELAP	PA	8/19/2002
SM 3113 B	Selenium	NELAP	PA	7/18/2006
SM 4500-CN- G	Amenable cyanide	NELAP	PA	7/10/2008
SM 4500-CN- I	Weak acid dissociable cyanide	NELAP	PA	7/10/2008
SM 4500-Cl G	Residual free chlorine	NELAP	PA	12/17/2008
SM 4500-Cl G	Total residual chlorine	NELAP	PA	12/21/2009
SM 4500-F- C	Fluoride	NELAP	PA	2/24/2003
SM 4500-H+ B	pH	NELAP	PA	12/21/2005
SM 4500-NH3 D	Ammonia as N	NELAP	PA	4/12/2007
SM 4500-NH3 G (discrete)	Ammonia as N	NELAP	PA	7/9/2008
SM 4500-NO2- B	Nitrite as N	NELAP	PA	12/17/2008
SM 4500-SO4 D	Sulfate	NELAP	PA	8/19/2002
SM 5540 C	Surfactants as MBAS	NELAP	PA	10/12/2011
SM 9215 B	Heterotrophic bacteria (Enumeration)	NELAP	PA	8/4/2010
SM 9221 B + 9221 E [EC broth]	Total coliform & Fecal coliform	NELAP	PA	1/10/2012
SM 9221 B + 9221 F [EC+MUG]	Total coliform & E. coli	NELAP	PA	8/19/2002
SM 9221 E	Fecal coliform (Enumeration)	NELAP	PA	4/29/2010
SM 9222 B	Total coliform (Enumeration)	NELAP	PA	3/3/2010
SM 9222 B + 9221 E [EC broth]	Total coliform & Fecal coliform	NELAP	PA	5/18/2010
SM 9222 B + 9222 G or 9221 F [EC+MUG]	Total coliform & E. coli	NELAP	PA	8/1/2008
SM 9222 B/9222 G	E. coli (Enumeration)	NELAP	PA	4/29/2010

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Microbac Laboratories - Erie  
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Program Non-Potable Water

Method	Analyte	Accreditation Type	Primary	Effective Date
ASTM D512-89A	Chloride	NELAP	PA	4/12/2007
EPA 120.1	Conductivity	NELAP	PA	12/29/2004
EPA 160.4	Residue, volatile	NELAP	PA	2/6/2007
EPA 1631	Mercury	NELAP	PA	12/29/2004
EPA 1664 Rev A	Non-polar material	NELAP	PA	8/31/2006
EPA 1664 Rev A	Oil and grease	NELAP	PA	8/31/2006
EPA 180.1	Turbidity	NELAP	PA	7/18/2006
EPA 200.7	Aluminum	NELAP	PA	12/23/2004
EPA 200.7	Antimony	NELAP	PA	12/23/2004
EPA 200.7	Arsenic	NELAP	PA	10/30/2006
EPA 200.7	Barium	NELAP	PA	1/7/2004
EPA 200.7	Beryllium	NELAP	PA	12/23/2004
EPA 200.7	Boron	NELAP	PA	8/30/2008
EPA 200.7	Cadmium	NELAP	PA	12/23/2004
EPA 200.7	Calcium	NELAP	PA	1/7/2004
EPA 200.7	Calcium hardness as CaCO <sub>3</sub>	NELAP	PA	5/23/2011
EPA 200.7	Chromium	NELAP	PA	12/23/2004
EPA 200.7	Cobalt	NELAP	PA	10/30/2006
EPA 200.7	Copper	NELAP	PA	12/23/2004
EPA 200.7	Iron	NELAP	PA	1/7/2004
EPA 200.7	Lead	NELAP	PA	12/23/2004
EPA 200.7	Lithium	NELAP	PA	7/10/2008
EPA 200.7	Magnesium	NELAP	PA	1/7/2004
EPA 200.7	Manganese	NELAP	PA	1/7/2004
EPA 200.7	Molybdenum	NELAP	PA	12/23/2004
EPA 200.7	Nickel	NELAP	PA	10/30/2006
EPA 200.7	Potassium	NELAP	PA	1/7/2004
EPA 200.7	Selenium	NELAP	PA	12/23/2004
EPA 200.7	Silver	NELAP	PA	12/23/2004
EPA 200.7	Sodium	NELAP	PA	1/7/2004
EPA 200.7	Strontium	NELAP	PA	5/23/2011
EPA 200.7	Tin	NELAP	PA	12/23/2004
EPA 200.7	Titanium	NELAP	PA	12/23/2004
EPA 200.7	Total hardness as CaCO <sub>3</sub>	NELAP	PA	4/3/2006
EPA 200.7	Vanadium	NELAP	PA	12/23/2004
EPA 200.7	Zinc	NELAP	PA	12/23/2004

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EPA Lab Code:

PA00087

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Microbac Laboratories - Erie  
1962 Wager Road  
Erie, PA 16509

Program Non-Potable Water

Method	Analyte	Accreditation Type	Primary	Effective Date
EPA 200.9	Thallium	NELAP	PA	12/23/2004
EPA 335.4 (discrete)	Cyanide	NELAP	PA	7/10/2008
EPA 351.2 (discrete)	Kjeldahl nitrogen, total (TKN)	NELAP	PA	7/9/2008
EPA 353.2 (discrete)	Nitrate as N	NELAP	PA	7/10/2008
EPA 353.2 (discrete)	Nitrite as N	NELAP	PA	7/10/2008
EPA 353.2 (discrete)	Total nitrate-nitrite	NELAP	PA	10/30/2009
EPA 365.1 (discrete)	Orthophosphate as P	NELAP	PA	7/9/2008
EPA 365.1 (discrete)	Phosphorus, total	NELAP	PA	7/9/2008
EPA 420.1	Total phenolics	NELAP	PA	7/9/2008
EPA 6010	Aluminum	NELAP	PA	12/21/2005
EPA 6010	Antimony	NELAP	PA	1/3/2005
EPA 6010	Arsenic	NELAP	PA	10/30/2006
EPA 6010	Barium	NELAP	PA	1/3/2005
EPA 6010	Beryllium	NELAP	PA	7/18/2006
EPA 6010	Boron	NELAP	PA	8/30/2008
EPA 6010	Cadmium	NELAP	PA	1/3/2005
EPA 6010	Calcium	NELAP	PA	12/21/2005
EPA 6010	Chromium	NELAP	PA	1/3/2005
EPA 6010	Cobalt	NELAP	PA	10/30/2006
EPA 6010	Copper	NELAP	PA	12/21/2005
EPA 6010	Iron	NELAP	PA	12/21/2005
EPA 6010	Lead	NELAP	PA	1/3/2005
EPA 6010	Lithium	NELAP	PA	7/10/2008
EPA 6010	Magnesium	NELAP	PA	12/21/2005
EPA 6010	Manganese	NELAP	PA	12/21/2005
EPA 6010	Molybdenum	NELAP	PA	12/21/2005
EPA 6010	Nickel	NELAP	PA	10/30/2006
EPA 6010	Potassium	NELAP	PA	12/21/2005
EPA 6010	Selenium	NELAP	PA	12/21/2005
EPA 6010	Silver	NELAP	PA	1/3/2005
EPA 6010	Sodium	NELAP	PA	12/21/2005
EPA 6010	Strontium	NELAP	PA	8/30/2008
EPA 6010	Tin	NELAP	PA	12/21/2005
EPA 6010	Titanium	NELAP	PA	12/21/2005
EPA 6010	Vanadium	NELAP	PA	12/21/2005
EPA 6010	Zinc	NELAP	PA	12/21/2005

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EPA Lab Code: PA00087

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Microbac Laboratories - Erie  
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Erie, PA 16509

Program Non-Potable Water

Method	Analyte	Accreditation Type	Primary	Effective Date
EPA 7196	Chromium VI	NELAP	PA	11/24/2009
EPA 7470	Mercury	NELAP	PA	7/10/2008
EPA 9012	Total cyanide	NELAP	PA	8/31/2006
OTHER HACH 8000	Chemical oxygen demand (COD)	NELAP	PA	12/17/2009
SM 2120 B	Color	NELAP	PA	10/30/2009
SM 2310 B	Acidity as CaCO3	NELAP	PA	12/21/2005
SM 2320 B	Alkalinity as CaCO3	NELAP	PA	4/3/2006
SM 2540 B	Residue, total	NELAP	PA	4/3/2006
SM 2540 C	Residue, filterable (TDS)	NELAP	PA	1/7/2004
SM 2540 D	Residue, nonfilterable (TSS)	NELAP	PA	8/15/2006
SM 2540 E	Residue, volatile	NELAP	PA	2/6/2007
SM 2540 F	Residue, settleable	NELAP	PA	2/6/2007
SM 2550 B	Temperature, deg. C	NELAP	PA	11/19/2008
SM 3112 B	Mercury	NELAP	PA	12/23/2004
SM 3113 B	Arsenic	NELAP	PA	2/6/2007
SM 3113 B	Cadmium	NELAP	PA	1/15/2009
SM 3113 B	Copper	NELAP	PA	3/28/2007
SM 3113 B	Lead	NELAP	PA	3/28/2007
SM 3113 B	Selenium	NELAP	PA	12/14/2006
SM 3113 B	Silver	NELAP	PA	3/28/2007
SM 3500-Cr B (20th ed.)	Chromium VI	NELAP	PA	11/24/2009
SM 4500-CN- G	Amenable cyanide	NELAP	PA	7/10/2008
SM 4500-Cl G	Total residual chlorine	NELAP	PA	7/11/2008
SM 4500-Cl- E (discrete)	Chloride	NELAP	PA	11/19/2008
SM 4500-F- B	Preliminary distillation of fluoride	NELAP	PA	7/9/2008
SM 4500-F- C	Fluoride	NELAP	PA	1/3/2005
SM 4500-H+ B	pH	NELAP	PA	12/21/2005
SM 4500-NH3 B	Ammonia distillation	NELAP	PA	4/12/2007
SM 4500-NH3 D	Ammonia as N	NELAP	PA	4/12/2007
SM 4500-NH3 G (discrete)	Ammonia as N	NELAP	PA	7/10/2008
SM 4500-NO2- B	Nitrite as N	NELAP	PA	11/19/2008
SM 4500-O G	Oxygen (dissolved)	NELAP	PA	7/18/2006
SM 4500-SO3 B	Sulfite, SO3	NELAP	PA	4/12/2007
SM 4500-SO4 D	Sulfate	NELAP	PA	1/7/2004
SM 5210 B	Biochemical oxygen demand (BOD)	NELAP	PA	12/29/2004
SM 5210 B	Carbonaceous BOD (CBOD)	NELAP	PA	8/31/2006

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**Laboratory Scope of Accreditation**

Page 6 of 8

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State Laboratory ID: 25-00067

EPA Lab Code:

PA00087

(814) 825-8533

Microbac Laboratories - Erie  
1962 Wager Road  
Erie, PA 16509

Program Non-Potable Water

Method	Analyte	Accreditation Type	Primary	Effective Date
SM 5540 C	Surfactants as MBAS	NELAP	PA	10/12/2011
SM 9221 B	Total coliform (Enumeration)	NELAP	PA	11/23/2011
SM 9221 B.1/9221 F	E. coli (Enumeration)	NELAP	PA	6/18/2010
SM 9221 C/E	Fecal coliforms	NELAP	PA	4/20/2006
SM 9222 B	Total coliforms	NELAP	PA	12/21/2004
SM 9222 B/9222 G	E. coli (Enumeration)	NELAP	PA	4/29/2010
SM 9222 D	Fecal coliforms	NELAP	PA	12/21/2004

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**Laboratory Scope of Accreditation** Page 7 of 8

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Microbac Laboratories - Erie  
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Erie, PA 16509

**Program Solid and Chemical Materials**

Method	Analyte	Accreditation Type	Primary	Effective Date
EPA 1010	Ignitability	NELAP	PA	8/15/2006
EPA 1110	Corrosivity	NELAP	PA	8/15/2006
EPA 1311	Toxicity characteristic leaching procedure (TCLP)	NELAP	PA	8/15/2006
EPA 160.4	Residue, volatile	NELAP	PA	2/6/2007
EPA 1682	Salmonella (Enumeration)	NELAP	PA	11/19/2008
EPA 200.9	Thallium	NELAP	PA	5/20/2011
EPA 3050B	Acid digestion of solids	NELAP	PA	1/3/2005
EPA 6010	Aluminum	NELAP	PA	8/30/2008
EPA 6010	Antimony	NELAP	PA	1/3/2005
EPA 6010	Barium	NELAP	PA	12/29/2004
EPA 6010	Beryllium	NELAP	PA	4/3/2006
EPA 6010	Cadmium	NELAP	PA	12/29/2004
EPA 6010	Calcium	NELAP	PA	4/3/2006
EPA 6010	Chromium	NELAP	PA	12/29/2004
EPA 6010	Cobalt	NELAP	PA	4/3/2006
EPA 6010	Copper	NELAP	PA	4/3/2006
EPA 6010	Iron	NELAP	PA	4/3/2006
EPA 6010	Lead	NELAP	PA	12/29/2004
EPA 6010	Magnesium	NELAP	PA	4/3/2006
EPA 6010	Manganese	NELAP	PA	4/3/2006
EPA 6010	Molybdenum	NELAP	PA	4/3/2006
EPA 6010	Nickel	NELAP	PA	12/29/2004
EPA 6010	Phosphorus, total	NELAP	PA	7/18/2006
EPA 6010	Potassium	NELAP	PA	4/3/2006
EPA 6010	Silver	NELAP	PA	12/29/2004
EPA 6010	Sodium	NELAP	PA	4/3/2006
EPA 6010	Thallium	NELAP	PA	4/3/2006
EPA 6010	Tin	NELAP	PA	4/3/2006
EPA 6010	Vanadium	NELAP	PA	4/3/2006
EPA 6010	Zinc	NELAP	PA	4/3/2006
EPA 7.3.3.2	Reactive cyanide	NELAP	PA	8/15/2006
EPA 7.3.4.2	Reactive sulfide	NELAP	PA	8/15/2006
EPA 7060A	Arsenic	NELAP	PA	10/30/2009
EPA 7471	Mercury	NELAP	PA	8/31/2006
EPA 7740	Selenium	NELAP	PA	10/30/2009
EPA 7841	Thallium	NELAP	PA	5/20/2011

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Microbac Laboratories - Erie
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Program Solid and Chemical Materials

Table with 5 columns: Method, Analyte, Accreditation Type, Primary, Effective Date. Rows include EPA 9010B, EPA 9012, EPA 9014, EPA 9034, EPA 9045, EPA 9071A, EPA 9071B, EPA 9095A, SM 2540 G, and SM 9221 E + EPA 625/R-92/013 Appendix F.

Handwritten signature of Owen Alper

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF FIELD OPERATIONS  
BUREAU OF LABORATORIES



Pennsylvania  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Certifies that

25-00067  
MICROBAC LABORATORIES - ERIE  
1962 WAGER ROAD  
ERIE, PA 16509

Having duly met the requirement of  
The Act of June 29, 2002 (P.L. 596, No. 90)  
dealing with Environmental Laboratory Accreditation  
(27 Pa. C.S. §§4101-4113) and the  
National Environmental Laboratory Accreditation Conference Standard  
is hereby approved as an

**Accredited Laboratory**

As more fully described in the attached Scope of Accreditation

Expiration Date: 1/31/2013  
Certificate Number: 010

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

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