

ATTACHMENT I

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters
for

MICROBAC LABORATORIES, INC. KTL
DIVISION
LOUISVILLE, KENTUCKY

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

| <u>ANALYTE</u> | <u>METHOD</u> | <u>TECHNOLOGY</u> |
|--|-----------------------|--------------------|
| Alkalinity | SM2320 B-11 | Titrimetric |
| Ammonia | SM4500-NH3 G-11 | Spectrophotometric |
| Chloride | EPA300.0 Rev 2.1-1993 | IC |
| Chloride | SM4500-Cl E-11 | Spectrophotometric |
| Chlorine, Residual | HACH 8167 | Spectrophotometric |
| Conductance, Specific | SM2510 B-11 | Probe |
| Hardness, Calcium | SM2340 B-11 | Calculation |
| Hardness, Total | SM2340 B-11 | Calculation |
| Nitrate | EPA300.0 Rev 2.1-1993 | IC |
| Nitrate-Nitrite | EPA300.0 Rev 2.1-1993 | Calculation |
| Nitrogen, Total Kjeldahl (TKN) | SM4500-NH3 G-11 | Spectrophotometric |
| Oxygen Demand, Biochemical (BOD) | SM5210 B-11 | Probe |
| Oxygen Demand, Carbonaceous Biochemical (CBOD) | SM5210 B-11 | Probe |
| Oxygen, Dissolved | SM4500-O G-11 | Probe |
| pH (Hydrogen Ion) | SM4500-H B-11 | Electrode |
| Solids, Dissolved | SM2540 C-11 | Gravimetric |
| Solids, Settleable | SM2540 F-11 | Imhoff |
| Solids, Suspended | USGS I-3765-85 | Gravimetric |
| Sulfate | EPA300.0 Rev 2.1-1993 | IC |
| Temperature | SM2550 B-10 | Thermometric |

NONPOTABLE WATER TRACE METALS

| <u>METAL</u> | <u>METHOD</u> | <u>TECHNOLOGY</u> |
|--------------|-----------------------|-------------------|
| Aluminum | EPA200.7 Rev 4.4-1994 | ICP |
| Aluminum | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Arsenic | EPA200.7 Rev 4.4-1994 | ICP |
| Arsenic | EPA200.8 Rev 5.4-1994 | ICP-MS |

| | | |
|-----------|-----------------------|--------|
| Barium | EPA200.7 Rev 4.4-1994 | ICP |
| Barium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Beryllium | EPA200.7 Rev 4.4-1994 | ICP |
| Beryllium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Boron | EPA200.7 Rev 4.4-1994 | ICP |
| Boron | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Cadmium | EPA200.7 Rev 4.4-1994 | ICP |
| Cadmium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Calcium | EPA200.7 Rev 4.4-1994 | ICP |
| Calcium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Chromium | EPA200.7 Rev 4.4-1994 | ICP |
| Chromium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Iron | EPA200.7 Rev 4.4-1994 | ICP |
| Iron | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Lead | EPA200.7 Rev 4.4-1994 | ICP |
| Lead | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Magnesium | EPA200.7 Rev 4.4-1994 | ICP |
| Magnesium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Manganese | EPA200.7 Rev 4.4-1994 | ICP |
| Manganese | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Mercury | EPA200.7 Rev 4.4-1994 | ICP |
| Mercury | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Nickel | EPA200.7 Rev 4.4-1994 | ICP |
| Nickel | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Potassium | EPA200.7 Rev 4.4-1994 | ICP |
| Potassium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Selenium | EPA200.7 Rev 4.4-1994 | ICP |
| Selenium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Silver | EPA200.7 Rev 4.4-1994 | ICP |
| Silver | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Sodium | EPA200.7 Rev 4.4-1994 | ICP |
| Sodium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Strontium | EPA200.7 Rev 4.4-1994 | ICP |
| Strontium | EPA200.8 Rev 5.4-1994 | ICP-MS |
| Zinc | EPA200.7 Rev 4.4-1994 | ICP |
| Zinc | EPA200.8 Rev 5.4-1994 | ICP-MS |


NONPOTABLE WATER MICROBIOLOGY

| <u>GROUP</u> | <u>METHOD</u> | <u>TECHNOLOGY</u> |
|-----------------------|---------------|-------------------|
| Coliform, Fecal (MPN) | Colilert 18 | Multiple Well |

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires April 30, 2020.

Certificate No 338

 issued on April 02, 2019

Linda Keller
Program Manager

This certified parameter list supersedes all previously issued parameter lists for this certificate number.