

Badger Laboratories, Inc.
501 W Bell Street
Neenah, WI 54956-1392

Laboratory Id: **445023150**
 Expiration Date: **08/31/19**
 Issued Date: **09/01/18**

Wisconsin Certification under NR 149 Matrix: Aqueous (Non-potable Water)

<p>Class: General Chemistry</p> <p>Acidity as CaCO₃ <i>by Titration</i></p> <p>Alkalinity <i>by Colorimetry</i></p> <p>Alkalinity <i>by Titration</i></p> <p>Ammonia as N <i>by Colorimetry</i></p> <p>Biochemical Oxygen Demand (BOD) <i>by 5-d Assay</i></p> <p>Carbonaceous Oxygen Demand (cBOD) <i>by 5-d Assay</i></p> <p>Chemical Oxygen Demand (COD) <i>by Colorimetry</i></p> <p>Chloride <i>by Colorimetry</i></p> <p>Chloride <i>by IC</i></p> <p>Cyanide, Available <i>by Colorimetry</i></p> <p>Cyanide, Total <i>by Colorimetry</i></p> <p>Fluoride <i>by IC</i></p> <p>HEM (Oil&Grease, Hexane Ext. Material (HEM)) <i>by Grav-HEM</i></p> <p>Hardness, Total as CaCO₃ <i>by Colorimetry</i></p> <p>Hardness, Total as CaCO₃ <i>by FLAA</i></p> <p>Kjeldahl Nitrogen, Total <i>by Colorimetry</i></p> <p>Nitrate <i>by IC</i></p> <p>Nitrate + Nitrite <i>by Colorimetry</i></p> <p>Nitrate + Nitrite <i>by IC</i></p> <p>Nitrite <i>by IC</i></p> <p>Orthophosphate <i>by Colorimetry</i></p> <p>Phenolics, Total <i>by Colorimetry</i></p> <p>Phosphorus, Total <i>by Colorimetry</i></p> <p>Residue, Filterable (TDS) <i>by Grav</i></p> <p>Residue, Nonfilterable (TSS) <i>by Grav</i></p> <p>Residue, Total <i>by Grav</i></p> <p>Residue, Volatile (TVS) <i>by Grav</i></p> <p>Residue, Volatile, Nonfilterable (TVSS) <i>by Grav</i></p> <p>Silica <i>by Colorimetry</i></p> <p>Sulfate <i>by Colorimetry</i></p> <p>Sulfate <i>by IC</i></p> <p>Sulfide <i>by Titration</i></p> <p>Sulfite <i>by Titration</i></p> <p>Surfactants <i>by Colorimetry</i></p>	<p>Class: Metals</p> <p>Barium <i>by ICP</i></p> <p>Beryllium <i>by FLAA</i></p> <p>Beryllium <i>by GFAA</i></p> <p>Beryllium <i>by ICP</i></p> <p>Boron <i>by Colorimetry</i></p> <p>Boron <i>by ICP</i></p> <p>Cadmium <i>by FLAA</i></p> <p>Cadmium <i>by GFAA</i></p> <p>Cadmium <i>by ICP</i></p> <p>Calcium <i>by FLAA</i></p> <p>Calcium <i>by ICP</i></p> <p>Chromium (Hexavalent) <i>by Colorimetry</i></p> <p>Chromium (Total) <i>by FLAA</i></p> <p>Chromium (Total) <i>by GFAA</i></p> <p>Chromium (Total) <i>by ICP</i></p> <p>Cobalt <i>by FLAA</i></p> <p>Cobalt <i>by GFAA</i></p> <p>Cobalt <i>by ICP</i></p> <p>Copper <i>by FLAA</i></p> <p>Copper <i>by GFAA</i></p> <p>Copper <i>by ICP</i></p> <p>Iron <i>by FLAA</i></p> <p>Iron <i>by ICP</i></p> <p>Lead <i>by FLAA</i></p> <p>Lead <i>by GFAA</i></p> <p>Lead <i>by ICP</i></p> <p>Lithium <i>by ICP</i></p> <p>Magnesium <i>by FLAA</i></p> <p>Magnesium <i>by ICP</i></p> <p>Manganese <i>by FLAA</i></p> <p>Manganese <i>by ICP</i></p> <p>Mercury <i>by Hyd-CVAA</i></p> <p>Molybdenum <i>by FLAA</i></p> <p>Molybdenum <i>by GFAA</i></p> <p>Molybdenum <i>by ICP</i></p> <p>Nickel <i>by FLAA</i></p> <p>Nickel <i>by GFAA</i></p> <p>Nickel <i>by ICP</i></p> <p>Potassium <i>by FLAA</i></p> <p>Potassium <i>by ICP</i></p> <p>Selenium <i>by GFAA</i></p> <p>Selenium <i>by ICP</i></p> <p>Silicon <i>by ICP</i></p> <p>Silver <i>by FLAA</i></p> <p>Silver <i>by GFAA</i></p>
<p>Class: Metals</p> <p>Aluminum <i>by FLAA</i></p> <p>Aluminum <i>by GFAA</i></p> <p>Aluminum <i>by ICP</i></p> <p>Antimony <i>by FLAA</i></p> <p>Antimony <i>by GFAA</i></p> <p>Antimony <i>by ICP</i></p> <p>Arsenic <i>by GFAA</i></p> <p>Arsenic <i>by ICP</i></p> <p>Barium <i>by FLAA</i></p>	

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* Analyte groups are defined and listed at <http://dnr.wi.gov> by searching keywords "Lab Certification".

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Wisconsin Certification under NR 149
Matrix: Aqueous (Non-potable Water)

Class: Metals

Silver *by ICP*
Sodium *by FLAA*
Sodium *by ICP*
Strontium *by FLAA*
Strontium *by ICP*
Thallium *by FLAA*
Thallium *by GFAA*
Thallium *by ICP*
Tin *by FLAA*
Tin *by GFAA*
Tin *by ICP*
Titanium *by ICP*
Vanadium *by FLAA*
Vanadium *by GFAA*
Vanadium *by ICP*
Zinc *by FLAA*
Zinc *by ICP*

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Wisconsin Certification under NR 149
Matrix: Potable Water (Drinking Water)

<p>Class: SDWA - Primary Non-metals</p> <ul style="list-style-type: none"> Cyanide - EPA 335.4 Fluoride - EPA 300.0 Nitrate + Nitrite - EPA 300.0 Nitrate - EPA 300.0 Nitrite - EPA 300.0
<p>Class: SDWA - Primary Metals</p> <ul style="list-style-type: none"> Antimony - SM 3113B Arsenic - SM 3113B Barium - SM 3111D Beryllium - SM 3113B Cadmium - SM 3113B Chromium - SM 3113B Copper - SM 3111B Lead - SM 3113B Mercury - EPA 245.1 Nickel - SM 3113B Selenium - SM 3113B
<p>Class: SDWA - Secondary Non-metals</p> <ul style="list-style-type: none"> Alkalinity - SM 2320B Chloride - EPA 300.0 Orthophosphate - SM 4500-P E Sulfate - EPA 300.0 TDS (Total Dissolved Solids) - SM 2540C pH - SM 4500-H+ B
<p>Class: SDWA - Secondary Metals</p> <ul style="list-style-type: none"> Aluminum - SM 3113B Iron - SM 3111B Magnesium - SM 3111 B Manganese - SM 3111B Silver - SM 3113B Sodium - SM 3111B Zinc - SM 3111B

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Wisconsin Certification under NR 149 Matrix: Solid (Waste, Soil & Tissue)

<p>Class: General Chemistry</p> <ul style="list-style-type: none"> Ammonia as N <i>by Colorimetry</i> Chloride <i>by Colorimetry</i> Chloride <i>by IC</i> Cyanide, Available <i>by Colorimetry</i> Cyanide, Total <i>by Colorimetry</i> Fluoride <i>by IC</i> Kjeldahl Nitrogen, Total <i>by Colorimetry</i> Nitrate <i>by IC</i> Nitrate + Nitrite <i>by Colorimetry</i> Nitrate + Nitrite <i>by IC</i> Nitrite <i>by IC</i> Orthophosphate <i>by Colorimetry</i> Phenolics, Total <i>by Colorimetry</i> Phosphorus, Total <i>by Colorimetry</i> Residue, Total <i>by Grav</i> Sulfate <i>by Colorimetry</i> Sulfate <i>by IC</i> Sulfide <i>by Titration</i> 	<p>Class: Metals</p> <ul style="list-style-type: none"> Copper <i>by FLAA</i> Copper <i>by GFAA</i> Copper <i>by ICP</i> Iron <i>by FLAA</i> Iron <i>by ICP</i> Lead <i>by FLAA</i> Lead <i>by GFAA</i> Lead <i>by ICP</i> Lithium <i>by ICP</i> Magnesium <i>by FLAA</i> Magnesium <i>by ICP</i> Manganese <i>by FLAA</i> Manganese <i>by ICP</i> Mercury <i>by Hyd-CVAA</i> Molybdenum <i>by FLAA</i> Molybdenum <i>by GFAA</i> Molybdenum <i>by ICP</i> Nickel <i>by FLAA</i> Nickel <i>by GFAA</i> Nickel <i>by ICP</i> Potassium <i>by FLAA</i> Potassium <i>by ICP</i> Selenium <i>by GFAA</i> Selenium <i>by ICP</i> Silicon <i>by ICP</i> Silver <i>by FLAA</i> Silver <i>by GFAA</i> Silver <i>by ICP</i> Sodium <i>by FLAA</i> Sodium <i>by ICP</i> Strontium <i>by FLAA</i> Strontium <i>by ICP</i> Thallium <i>by FLAA</i> Thallium <i>by GFAA</i> Thallium <i>by ICP</i> Tin <i>by FLAA</i> Tin <i>by GFAA</i> Tin <i>by ICP</i> Titanium <i>by ICP</i> Vanadium <i>by FLAA</i> Vanadium <i>by GFAA</i> Vanadium <i>by ICP</i> Zinc <i>by FLAA</i> Zinc <i>by ICP</i>
<p>Class: Metals</p> <ul style="list-style-type: none"> Aluminum <i>by FLAA</i> Aluminum <i>by GFAA</i> Aluminum <i>by ICP</i> Antimony <i>by FLAA</i> Antimony <i>by GFAA</i> Antimony <i>by ICP</i> Arsenic <i>by GFAA</i> Arsenic <i>by ICP</i> Barium <i>by FLAA</i> Barium <i>by ICP</i> Beryllium <i>by FLAA</i> Beryllium <i>by GFAA</i> Beryllium <i>by ICP</i> Boron <i>by Colorimetry</i> Boron <i>by ICP</i> Cadmium <i>by FLAA</i> Cadmium <i>by GFAA</i> Cadmium <i>by ICP</i> Calcium <i>by FLAA</i> Calcium <i>by ICP</i> Chromium (Total) <i>by FLAA</i> Chromium (Total) <i>by GFAA</i> Chromium (Total) <i>by ICP</i> Cobalt <i>by FLAA</i> Cobalt <i>by GFAA</i> Cobalt <i>by ICP</i> 	

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Matrix: Solid (Waste, Soil & Tissue)

Class: Waste Characterization Extractions

Reagent Water Shake Extraction (ASTM Leach Test) *by Waste Extractions*
SPLP Extraction *by Waste Extractions*
TCLP Extraction *by Waste Extractions*

Class: Waste Characterization Assays

Corrosivity, Liquids *by Waste Assays*
Ignitability, Pensky-Martens Closed Cup *by Waste Assays*
Paint Filters Liquids Test *by Waste Assays*