

State of Wisconsin
Department of Natural Resources



recognizes

**Wisconsin Certification under NR 149
of
Environmental Monitoring & Technologies(EMT)**

Laboratory Id: **999888890**

as a laboratory licensed to perform environmental sample analysis in support of covered environmental programs (ch. NR149.02 Note) for the parameter(s) specified in the attached Scope of Accreditation.

August 31, 2016

Expiration Date

August 31, 2015

Issued on



Steven Geis, Chief
Environmental Science Services

Cathy Stepp, Secretary
Department of Natural Resources

This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control practices, records, and proficiency of the laboratory have been reviewed and found to satisfy the requirements of ch. NR 149, Wis. Adm. Code.

Scope of Accreditation

Environmental Monitoring & Technologies(EMT)
8100 N. Austin Ave.
Morton Grove, IL 60053

Laboratory Id: **999888890**
 Expiration Date: **08/31/16**
 Issued Date: **08/31/15**

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 Titration</i></p> <p>Ammonia as N <i>by Titration</i></p> <p>Biochemical Oxygen Demand (BOD) <i>by 5-d Assay</i></p> <p>Bromide <i>by IC</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 IC</i></p> <p>Chlorophyll <i>by Colorimetry</i></p> <p>Cyanide, Available <i>by Colorimetry</i></p> <p>Cyanide, Available <i>by Titration</i></p> <p>Cyanide, Total <i>by Colorimetry</i></p> <p>Fluoride <i>by IC</i></p> <p>Fluoride <i>by ISE</i></p> <p>Hardness, Total as CaCO₃ <i>by ICP</i></p> <p>Kjeldahl Nitrogen, Total <i>by Titration</i></p> <p>Nitrate <i>by IC</i></p> <p>Nitrate + Nitrite <i>by Colorimetry</i></p> <p>Nitrite <i>by Colorimetry</i></p> <p>Nitrite <i>by IC</i></p> <p>Oil&Grease, Hexane Ext. Material (HEM) <i>by Grav-HEM</i></p> <p>Organic Carbon, Total (TOC) <i>by Comb-Ox</i></p> <p>Organic Halides, Extractable (EOX) <i>by ISE</i></p> <p>Organic Halides, Purgeable (POX) <i>by ISE</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>Sulfate <i>by IC</i></p> <p>Sulfide <i>by Colorimetry</i></p> <p>Sulfide <i>by ISE</i></p> <p>Sulfide <i>by Titration</i></p> <p>Sulfides, Acid-Soluble and Acid-Insoluble <i>by Titration</i></p> <p>Sulfite <i>by Titration</i></p> <p>Surfactants <i>by Colorimetry</i></p> <p>pH <i>by ISE</i></p>	<p>Class: Metals</p> <p>Arsenic <i>by ICP-MS</i></p> <p>Barium <i>by ICP</i></p> <p>Barium <i>by ICP-MS</i></p> <p>Beryllium <i>by ICP</i></p> <p>Beryllium <i>by ICP-MS</i></p> <p>Boron <i>by ICP</i></p> <p>Boron <i>by ICP-MS</i></p> <p>Cadmium <i>by ICP</i></p> <p>Cadmium <i>by ICP-MS</i></p> <p>Calcium <i>by ICP</i></p> <p>Chromium (Hexavalent) <i>by Colorimetry</i></p> <p>Chromium (Total) <i>by Colorimetry</i></p> <p>Chromium (Total) <i>by ICP</i></p> <p>Chromium (Total) <i>by ICP-MS</i></p> <p>Cobalt <i>by ICP</i></p> <p>Cobalt <i>by ICP-MS</i></p> <p>Copper <i>by ICP</i></p> <p>Copper <i>by ICP-MS</i></p> <p>Iron <i>by ICP</i></p> <p>Iron <i>by ICP-MS</i></p> <p>Lead <i>by ICP</i></p> <p>Lead <i>by ICP-MS</i></p> <p>Magnesium <i>by ICP</i></p> <p>Manganese <i>by ICP</i></p> <p>Manganese <i>by ICP-MS</i></p> <p>Mercury <i>by Hyd-CVAA</i></p> <p>Molybdenum <i>by ICP</i></p> <p>Molybdenum <i>by ICP-MS</i></p> <p>Nickel <i>by ICP</i></p> <p>Nickel <i>by ICP-MS</i></p> <p>Potassium <i>by ICP</i></p> <p>Potassium <i>by ICP-MS</i></p> <p>Selenium <i>by ICP</i></p> <p>Selenium <i>by ICP-MS</i></p> <p>Silver <i>by ICP</i></p> <p>Silver <i>by ICP-MS</i></p> <p>Sodium <i>by ICP</i></p> <p>Thallium <i>by ICP</i></p> <p>Thallium <i>by ICP-MS</i></p> <p>Tin <i>by ICP</i></p> <p>Tin <i>by ICP-MS</i></p> <p>Titanium <i>by ICP</i></p> <p>Titanium <i>by ICP-MS</i></p> <p>Vanadium <i>by ICP</i></p> <p>Vanadium <i>by ICP-MS</i></p>
<p>Class: Metals</p> <p>Aluminum <i>by ICP</i></p> <p>Aluminum <i>by ICP-MS</i></p> <p>Antimony <i>by ICP</i></p> <p>Antimony <i>by ICP-MS</i></p> <p>Arsenic <i>by ICP</i></p>	

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

Scope of Accreditation

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Laboratory Id: **999888890**
 Expiration Date: **08/31/16**
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Wisconsin Certification under NR 149
Matrix: Aqueous (Non-potable Water)

<p>Class: Metals Zinc by ICP Zinc by ICP-MS</p>
<p>Class: BNA Semivolatiles ## SEMIVOLATILES [BNA] (group) by GC/MS</p>
<p>Class: PAH - Polynuclear Aromatic Hydrocarbons (BN) ## PAH (group) by GC/MS ## PAH (group) by HPLC</p>
<p>Class: Pesticides, Acid (Herbicides) 2,4,5-T by HPLC 2,4-D by HPLC 2,4-DB by HPLC Dicamba by HPLC Dinoseb (2-sec-butyl-4,6-Dinitrophenol) by HPLC MCPA by HPLC MCPP (Mecoprop) by HPLC Pentachlorophenol by HPLC Silvex (2,4,5-TP) by HPLC</p>
<p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) by GC</p>
<p>Class: Petroleum Hydrocarbons ## PVOC - Petroleum VOCs by GC ## PVOC - Petroleum VOCs by GC/MS Diesel Range Organics (DRO) by GC Gasoline Range Organics (GRO) by GC</p>
<p>Class: PCBs as Aroclors ## PCB as AROCLORS (group) by GC</p>
<p>Class: Volatile Organics ## VOLATILE ORGANICS [VOC] (group) by GC/MS Ethanol by GC Ethylene Glycol by GC Methanol by GC</p>

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

<p>Class: General Chemistry Ammonia as N <i>by Titration</i> Bromide <i>by IC</i> Chloride <i>by IC</i> Cyanide, Available <i>by Colorimetry</i> Cyanide, Available <i>by Titration</i> Cyanide, Total <i>by Colorimetry</i> Fluoride <i>by IC</i> Fluoride <i>by ISE</i> Kjeldahl Nitrogen, Total <i>by Titration</i> Nitrate <i>by IC</i> Nitrate + Nitrite <i>by Colorimetry</i> Nitrite <i>by Colorimetry</i> Nitrite <i>by IC</i> Organic Carbon, Total (TOC) <i>by Comb-Ox</i> Organic Halides, Extractable (EOX) <i>by ISE</i> Organic Halides, Purgeable (POX) <i>by ISE</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 IC</i> Sulfide <i>by Colorimetry</i> Sulfide <i>by ISE</i> Sulfide <i>by Titration</i> Sulfides, Acid-Soluble and Acid-Insoluble <i>by Titration</i> pH <i>by ISE</i></p>	<p>Class: Metals Chromium (Total) <i>by ICP-MS</i> Cobalt <i>by ICP</i> Cobalt <i>by ICP-MS</i> Copper <i>by ICP</i> Copper <i>by ICP-MS</i> Iron <i>by ICP</i> Iron <i>by ICP-MS</i> Lead <i>by ICP</i> Lead <i>by ICP-MS</i> Magnesium <i>by ICP</i> Manganese <i>by ICP</i> Manganese <i>by ICP-MS</i> Mercury <i>by Hyd-CVAA</i> Molybdenum <i>by ICP</i> Molybdenum <i>by ICP-MS</i> Nickel <i>by ICP</i> Nickel <i>by ICP-MS</i> Potassium <i>by ICP</i> Potassium <i>by ICP-MS</i> Selenium <i>by ICP</i> Selenium <i>by ICP-MS</i> Silver <i>by ICP</i> Silver <i>by ICP-MS</i> Sodium <i>by ICP</i> Thallium <i>by ICP</i> Thallium <i>by ICP-MS</i> Tin <i>by ICP</i> Tin <i>by ICP-MS</i> Titanium <i>by ICP</i> Titanium <i>by ICP-MS</i> Vanadium <i>by ICP</i> Vanadium <i>by ICP-MS</i> Zinc <i>by ICP</i> Zinc <i>by ICP-MS</i></p>
<p>Class: Metals Aluminum <i>by ICP</i> Aluminum <i>by ICP-MS</i> Antimony <i>by ICP</i> Antimony <i>by ICP-MS</i> Arsenic <i>by ICP</i> Arsenic <i>by ICP-MS</i> Barium <i>by ICP</i> Barium <i>by ICP-MS</i> Beryllium <i>by ICP</i> Beryllium <i>by ICP-MS</i> Boron <i>by ICP</i> Boron <i>by ICP-MS</i> Cadmium <i>by ICP</i> Cadmium <i>by ICP-MS</i> Calcium <i>by ICP</i> Chromium (Hexavalent) <i>by Colorimetry</i> Chromium (Total) <i>by Colorimetry</i> Chromium (Total) <i>by ICP</i></p>	<p>Class: BNA Semivolatiles ## SEMIVOLATILES [BNA] (group) <i>by GC/MS</i></p>
	<p>Class: PAH - Polynuclear Aromatic Hydrocarbons (BN) ## PAH (group) <i>by GC/MS</i> ## PAH (group) <i>by HPLC</i></p>
	<p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) <i>by GC</i></p>
	<p>Class: Petroleum Hydrocarbons ## PVOC - Petroleum VOCs <i>by GC</i></p>

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Matrix: Solid (Waste, Soil & Tissue)

Class: Petroleum Hydrocarbons ## PVOC - Petroleum VOCs <i>by GC/MS</i> Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <i>by GC</i>
Class: PCBs as Aroclors ## PCB as AROCLORS (group) <i>by GC</i>
Class: Volatile Organics ## VOLATILE ORGANICS [VOC] (group) <i>by GC/MS</i> Ethanol <i>by GC</i> Ethylene Glycol <i>by GC</i> Methanol <i>by GC</i>
Class: Waste Characterization Extractions TCLP Extraction <i>by Waste Extractions</i>
Class: Waste Characterization Assays Ignitability of Solids <i>by Waste Assays</i> Ignitability, Oxidizers <i>by Waste Assays</i> Ignitability, Pinsky-Martens Closed Cup <i>by Waste Assays</i> Ignitability, Setaflash Closed Cup <i>by Waste Assays</i> Ignitability, Small Scale Closed Cup <i>by Waste Assays</i> Waste Analysis, Other <i>by Waste Assays</i>