

State of Wisconsin
Department of Natural Resources



recognizes

Wisconsin Certification under NR 149
of
CT Laboratories

Laboratory Id: **157066030**

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, 2015

Expiration Date

August 29, 2014

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

CT Laboratories
1230 Lange Ct.
Baraboo, WI 53913

Laboratory Id: 157066030
Expiration Date: 08/31/15
Issued Date: 08/29/14

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

<p>Class: General Chemistry Alkalinity <i>by Colorimetry</i> Alkalinity <i>by Titration</i> Ammonia as N <i>by Colorimetry</i> Biochemical Oxygen Demand (BOD) <i>by 5-d Assay</i> Bromide <i>by IC</i> Carbonaceous Oxygen Demand (cBOD) <i>by 5-d Assay</i> Chemical Oxygen Demand (COD) <i>by Colorimetry</i> Chloride <i>by IC</i> Chlorophyll <i>by Colorimetry</i> Cyanide, Available <i>by Colorimetry</i> Cyanide, Total <i>by Colorimetry</i> Fluoride <i>by IC</i> Hardness, Total as CaCO₃ <i>by ICP</i> Kjeldahl Nitrogen, Total <i>by Colorimetry</i> Nitrate <i>by IC</i> Nitrite <i>by IC</i> Oil&Grease, Hexane Ext. Material (HEM) <i>by Grav-HEM</i> Organic Carbon, Total (TOC) <i>by Comb-Ox</i> Orthophosphate <i>by IC</i> Phenolics, Total <i>by Colorimetry</i> Phosphorus, Total <i>by Colorimetry</i> Residue, Nonfilterable (TSS) <i>by Grav</i> Residue, Total <i>by Grav</i> Residue, Volatile (TVS) <i>by Grav</i> Residue, Volatile, Nonfilterable (TVSS) <i>by Grav</i> Silica <i>by ICP</i> Specific Conductance <i>by ISE</i> Sulfate <i>by IC</i> Sulfide <i>by Titration</i> pH <i>by ISE</i></p>	<p>Class: Metals Iron <i>by ICP</i> Lead <i>by GFAA</i> Lead <i>by ICP</i> Lithium <i>by ICP</i> Magnesium <i>by ICP</i> Manganese <i>by ICP</i> Mercury <i>by Hyd-CVAA</i> Molybdenum <i>by ICP</i> Nickel <i>by ICP</i> Potassium <i>by ICP</i> Selenium <i>by GFAA</i> Selenium <i>by ICP</i> Silver <i>by GFAA</i> Silver <i>by ICP</i> Sodium <i>by ICP</i> Strontium <i>by ICP</i> Thallium <i>by GFAA</i> Thallium <i>by ICP</i> Tin <i>by ICP</i> Titanium <i>by ICP</i> Vanadium <i>by ICP</i> Zinc <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: Explosives Residue 1,3,5-Trinitrobenzene <i>by HPLC</i> 1,3-Dinitrobenzene <i>by HPLC</i> 2,4-Dinitrotoluene <i>by HPLC</i> 2,6-Dinitrotoluene <i>by HPLC</i> 2-Amino-4,6-dinitrotoluene <i>by HPLC</i> 2-Nitrotoluene <i>by HPLC</i> 3-Nitrotoluene <i>by HPLC</i> 4-Amino-2,6-dinitrotoluene <i>by HPLC</i> 4-Nitrotoluene <i>by HPLC</i> HMX <i>by HPLC</i> Nitrobenzene <i>by HPLC</i> Nitroglycerin <i>by HPLC</i> RDX <i>by HPLC</i></p>
<p>Class: Metals Aluminum <i>by ICP</i> Antimony <i>by GFAA</i> Antimony <i>by ICP</i> Arsenic <i>by GFAA</i> Arsenic <i>by ICP</i> Barium <i>by ICP</i> Beryllium <i>by ICP</i> Boron <i>by ICP</i> Cadmium <i>by ICP</i> Calcium <i>by ICP</i> Chromium (Hexavalent) <i>by Colorimetry</i> Chromium (Total) <i>by ICP</i> Cobalt <i>by ICP</i> Copper <i>by ICP</i></p>	<p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) <i>by GC</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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Baraboo, WI 53913

Laboratory Id: **157066030**
Expiration Date: **08/31/15**
Issued Date: **08/29/14**

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

Class: Petroleum Hydrocarbons Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <i>by GC</i> Petroleum VOC (PVOC) <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>

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

Class: SDWA - Primary Non-metals Cyanide - EPA 335.4 Fluoride - EPA 300.0 Nitrate - EPA 300.0 Nitrite - EPA 300.0
Class: SDWA - Primary Metals Antimony - EPA 200.9 Arsenic - EPA 200.9 Barium - EPA 200.7 Beryllium - EPA 200.7 Cadmium - EPA 200.7 Chromium - EPA 200.7 Copper - EPA 200.7 Lead - EPA 200.9 Mercury - EPA 245.2 Nickel - EPA 200.7 Selenium - EPA 200.9 Thallium - EPA 200.9
Class: SDWA - Secondary Non-metals Sulfate - EPA 300.0
Class: SDWA - Secondary Metals Sodium - EPA 200.7
Class: SDWA - Trihalomethanes ## THM (group) - EPA 524.2
Class: SDWA - Volatile Organics ## VOCS, REGULATED (group) - EPA 524.2

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

<p>Class: General Chemistry Ammonia as N <i>by Colorimetry</i> Bromide <i>by IC</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> Nitrite <i>by IC</i> Organic Carbon, Total (TOC) <i>by Comb-Ox</i> Orthophosphate <i>by IC</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 Titration</i></p>	<p>Class: Metals Sodium <i>by ICP</i> Strontium <i>by ICP</i> Thallium <i>by GFAA</i> Thallium <i>by ICP</i> Tin <i>by ICP</i> Titanium <i>by ICP</i> Vanadium <i>by ICP</i> Zinc <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 HPLC</i></p>
	<p>Class: Explosives Residue 1,3,5-Trinitrobenzene <i>by HPLC</i> 1,3-Dinitrobenzene <i>by HPLC</i> 2,4-Dinitrotoluene <i>by HPLC</i> 2,6-Dinitrotoluene <i>by HPLC</i> 2-Amino-4,6-dinitrotoluene <i>by HPLC</i> 2-Nitrotoluene <i>by HPLC</i> 3-Nitrotoluene <i>by HPLC</i> 4-Amino-2,6-dinitrotoluene <i>by HPLC</i> 4-Nitrotoluene <i>by HPLC</i> HMX <i>by HPLC</i> Nitrobenzene <i>by HPLC</i> Nitroglycerin <i>by HPLC</i> RDX <i>by HPLC</i></p>
<p>Class: Metals Aluminum <i>by ICP</i> Antimony <i>by GFAA</i> Antimony <i>by ICP</i> Arsenic <i>by GFAA</i> Arsenic <i>by ICP</i> Barium <i>by ICP</i> Beryllium <i>by ICP</i> Boron <i>by ICP</i> Cadmium <i>by ICP</i> Calcium <i>by ICP</i> Chromium (Hexavalent) <i>by Colorimetry</i> Chromium (Total) <i>by ICP</i> Cobalt <i>by ICP</i> Copper <i>by ICP</i> Iron <i>by ICP</i> Lead <i>by GFAA</i> Lead <i>by ICP</i> Lithium <i>by ICP</i> Magnesium <i>by ICP</i> Manganese <i>by ICP</i> Mercury <i>by Hyd-CVAA</i> Molybdenum <i>by ICP</i> Nickel <i>by ICP</i> Potassium <i>by ICP</i> Selenium <i>by GFAA</i> Selenium <i>by ICP</i> Silver <i>by GFAA</i> Silver <i>by ICP</i></p>	<p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) <i>by GC</i></p>
	<p>Class: Petroleum Hydrocarbons Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <i>by GC</i> Petroleum VOC (PVOC) <i>by GC</i></p>
	<p>Class: PCBs as Aroclors ## PCB as AROCLORS (group) <i>by GC</i></p>
	<p>Class: Volatile Organics ## VOLATILE ORGANICS [VOC] (group) <i>by GC/MS</i></p>
	<p>Class: Waste Characterization Extractions SPLP Extraction <i>by Waste Extractions</i> TCLP Extraction <i>by Waste Extractions</i></p>

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Matrix: Solid (Waste, Soil & Tissue)

<p>Class: Waste Characterization Assays Ignitability of Solids <i>by Waste Assays</i> Ignitability, Pinsky-Martens Closed Cup <i>by Waste Assays</i></p>

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