



December 6, 2018

FID: 157066030

MS. REBECCA DURANCEAU
CT LABORATORIES
1230 LANGE CT.
BARABOO, WI 53913

Dear Ms. Rebecca Duranceau:

Enclosed is your new Laboratory Certification or Registration certificate. This certificate supersedes all previous certificates.

YOUR CERTIFICATE IS AN IMPORTANT DOCUMENT. PLEASE REVIEW IT CAREFULLY FOR ERRORS AND COMPARE IT TO YOUR PREVIOUS YEAR'S CERTIFICATE. MAKE SURE THAT THIS CERTIFICATE REFLECTS THE TESTS FOR WHICH YOU APPLIED TO BE CERTIFIED. If you believe your certificate contains errors, contact the Laboratory Certification and Registration Program immediately at (608) 267-7633 or by e-mail at DNRLabCert@wisconsin.gov.

Test categories and parameters for which your laboratory failed to meet the legal requirements for certification or registration are listed in the table below, and were not included on the enclosed certificate. Your laboratory is not authorized to perform testing for these parameters for compliance for any Wisconsin Department of Natural Resources covered program, as defined in s. NR 149.03 Wis. Adm. Code, and must cease performing these tests for any of these programs immediately. Failure to comply with this may result in referral of the laboratory for enforcement. Contact the Laboratory Certification and Registration Program with any questions on the failed test categories and parameters and for information on applying to reinstate these test categories and parameters.

Sincerely,

Steven Geis, Chief
Environmental Science Services

Page 1 of 1

Accreditation	Problem
Solid (Waste, Soil & Tissue) Chromium (Hexavalent) by Colorimetry	Application incomplete

CT Laboratories
1230 Lange Ct.
Baraboo, WI 53913

Laboratory Id: **157066030**
 Expiration Date: **08/31/19**
 Issued Date: **12/06/18**

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, Total <i>by Colorimetry</i> Fluoride <i>by IC</i> HEM (Oil&Grease, Hexane Ext. Material (HEM)) <i>by Grav-HEM</i> Hardness, Total as CaCO₃ <i>by ICP</i> Kjeldahl Nitrogen, Total <i>by Colorimetry</i> Nitrate <i>by IC</i> Nitrate + Nitrite <i>by Colorimetry</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, Filterable (TDS) <i>by Grav</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> Turbidity <i>by Colorimetry</i> pH <i>by ISE</i></p>	<p>Class: Metals 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 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: 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></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> 2,4,6-Trinitrotoluene <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> PETN (Pentaerythritol tetranitrate) <i>by HPLC</i></p>

The laboratory named above is hereby licensed under ch. NR 149, Wis. Adm. Code for the parameters listed in this attachment.
 * Analyte groups are defined and listed at <http://dnr.wi.gov> by searching keywords "Lab Certification".

CT Laboratories
1230 Lange Ct.
Baraboo, WI 53913

Laboratory Id: **157066030**
 Expiration Date: **08/31/19**
 Issued Date: **12/06/18**

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

<p>Class: Explosives Residue RDX <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> Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <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> Ethylene Glycol <i>by GC</i> Propylene Glycol <i>by GC</i></p>

CT Laboratories
1230 Lange Ct.
Baraboo, WI 53913

Laboratory Id: **157066030**
 Expiration Date: **08/31/19**
 Issued Date: **12/06/18**

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 - 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 245.1 Nickel - EPA 200.7 Selenium - EPA 200.9 Thallium - EPA 200.9
<p>Class: SDWA - Secondary Non-metals</p> <ul style="list-style-type: none"> Alkalinity - SM 2320B Chloride - EPA 300.0 Sulfate - EPA 300.0 TDS (Total Dissolved Solids) - SM 2540C
<p>Class: SDWA - Secondary Metals</p> <ul style="list-style-type: none"> Calcium - EPA 200.7 Iron - EPA 200.7 Magnesium - EPA 200.7 Manganese - EPA 200.7 Silver - EPA 200.7 Sodium - EPA 200.7 Zinc - EPA 200.7
<p>Class: SDWA - Trihalomethanes</p> <ul style="list-style-type: none"> ## THM (group) - EPA 524.2
<p>Class: SDWA - Volatile Organics</p> <ul style="list-style-type: none"> ## VOCS, REGULATED (group) - EPA 524.2 ## VOCS, UNREGULATED (group) - EPA 524.2

CT Laboratories
1230 Lange Ct.
Baraboo, WI 53913

Laboratory Id: **157066030**
 Expiration Date: **08/31/19**
 Issued Date: **12/06/18**

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, 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 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> pH <i>by ISE</i></p>	<p>Class: Metals 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: Metals Aluminum <i>by ICP</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 (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 ICP</i> Sodium <i>by ICP</i> Strontium <i>by ICP</i> Thallium <i>by GFAA</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> 2,4,6-Trinitrotoluene <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> PETN (Pentaerythritol tetranitrate) <i>by HPLC</i> RDX <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> Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <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> <p>Class: Waste Characterization Assays Ignitability, Pensky-Martens Closed Cup <i>by Waste Assays</i></p>

The laboratory named above is hereby licensed under ch. NR 149, Wis. Adm. Code for the parameters listed in this attachment.

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