

# The State of Wisconsin Department of Natural Resources

has granted

**Accreditation under NR 149**

to

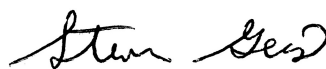
***Northern Lake Service Inc. (Crandon)***

***FID: 721026460***

The laboratory is accredited to perform environmental sample analysis in support of covered environmental programs per matrix for the combination of analyte and technology or analyte and method as specified in the attached Scopes of Accreditation.

**Printed on: August 27, 2021**

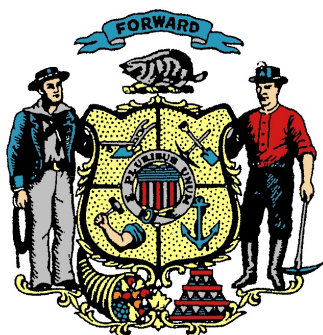
**Expires on: August 31, 2022**



Steven Geis, Chief  
Certification Services



Preston D. Cole 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 chapter NR 149, Wisconsin Administrative Code.



# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Aqueous (Non-potable Water)

**Northern Lake Service Inc. (Crandon)**  
**400 North Lake Ave**  
**Crandon, WI 54520-1286**

**Printed on: 8/27/2021**  
**Expires on: 8/31/2022**

<b>Oxygen Demand Assays (BOD or cBOD)</b>	Biochemical Oxygen Demand (BOD)
	Carbonaceous Biochemical Oxygen Demand (cBOD)
<b>Colorimetric or Turbidimetric</b>	Ammonia as N
	Chlorophyll
	Cyanide, Available
	Cyanide, Total
	Kjeldahl Nitrogen, Total
	Nitrate
	Nitrate + Nitrite
	Orthophosphate
	Phenolics, Total
	Phosphorus, Total
	Chromium, Hexavalent
<b>Nondispersive Infrared (NDIR) or Microcoulometry</b>	Organic Carbon, Total (TOC)
<b>Electrometric Assays (ISE)</b>	Ammonia as N
	Specific Conductance
	pH
<b>Gravimetric Assays - Residue (solids)</b>	Residue, Filterable (TDS)
	Residue, Nonfilterable (TSS)
	Residue, Total (Total Solids)
	Residue, Volatile (TVS)
	Residue, Volatile, Nonfilterable (TVSS)
<b>Extraction/Gravimetric Assays - Oil &amp; Grease as HEM</b>	Oil & Grease as HEM
	Oil & Grease as HEM, Silica Gel Treated (SGT)
<b>Ion Chromatography (IC)</b>	Chloride
	Fluoride
	Nitrate
	Nitrate + Nitrite
	Nitrite
	Sulfate

This laboratory is accredited under NR 149 to perform environmental sample analysis in support of covered environmental programs for the combination of analyte or analyte group and technology in the aqueous and non-aqueous matrices and analyte or analyte group and method in the drinking water matrix as specified in this Scope of Accreditation.



# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Aqueous (Non-potable Water)

<b>Titrimetric or Potentiometric Titration Assays</b>	Alkalinity
	Chemical Oxygen Demand (COD)
	Sulfide
<b>Cold Vapor Atomic Absorption Spectrophotometry (CVAA)</b>	Mercury
<b>Inductively Coupled Plasma Emission Spectrophotometry (ICP)</b>	Hardness, Total as CaCO <sub>3</sub>
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Thallium
	Tin
	Titanium
Vanadium	
Zinc	

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Aqueous (Non-potable Water)

<b>Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)</b>	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Thallium
Tin	
Titanium	
Vanadium	
Zinc	
<b>Gas Chromatography (GC)</b>	## PESTICIDES, ORGANOCHLORINE (group)
	## PCB as AROCLORS (group)

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Aqueous (Non-potable Water)

<b>Gas Chromatography-Mass Spectrometry (GC/MS)</b>	## BNA - SEMIVOLATILE ORGANICS (group)
	Alachlor
	Butylate
	Metolachlor
	Metribuzin
	Propachlor
	Trifluralin
	Chlorpyrifos
	Dimethoate
	Disulfoton
	Fonofos
	Parathion (Parathion Ethyl)
	Parathion Methyl
	Phorate
	Terbufos
	Atrazine
	Cyanazine
	Deethylatrazine
	Deisopropylatrazine
	Prometon
	Propazine
	Simazine
	EPTC (Eptam)
## VOC - VOLATILE ORGANICS (group)	
## PAH (group)	
<b>Liquid Chromatography-Mass Spectrometry (LC/MS)</b>	## PFAS (group)
<b>Cold Vapor Atomic Fluorescence Spectrophotometry (CVAFS)</b>	Mercury, Low Level

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Drinking Water (Potable Water)

**Northern Lake Service Inc. (Crandon)**  
 400 North Lake Ave  
 Crandon, WI 54520-1286

**Printed on: 8/27/2021**  
**Expires on: 8/31/2022**

<b>Disinfection By-products</b>	## HALOACETIC ACIDS (5) - EPA 552.3
	## THM (group) - EPA 524.2
<b>Primary Inorganics Contaminants (Non-Metals)</b>	Cyanide - SM 4500-CN C, E
	Fluoride - EPA 300.0
	Nitrate + Nitrite - EPA 300.0
	Nitrate + Nitrite - SM 4500-NO3 F
	Nitrate - EPA 300.0
	Nitrate - SM 4500-NO3 F
	Nitrite - EPA 300.0
<b>Primary Inorganics Contaminants (Metals)</b>	Antimony - EPA 200.8
	Arsenic - EPA 200.8
	Barium - EPA 200.7
	Barium - EPA 200.8
	Beryllium - EPA 200.7
	Beryllium - EPA 200.8
	Cadmium - EPA 200.7
	Cadmium - EPA 200.8
	Chromium - EPA 200.7
	Chromium - EPA 200.8
	Copper - EPA 200.7
	Copper - EPA 200.8
	Lead - EPA 200.8
	Mercury - EPA 200.8
	Mercury - EPA 245.1
	Nickel - EPA 200.7
	Nickel - EPA 200.8
	Selenium - EPA 200.8
	Thallium - EPA 200.8
	<b>Secondary Inorganic Contaminants (Non-Metals)</b>
Chloride - EPA 300.0	
Orthophosphate - SM 4500-P E	
Sulfate - EPA 300.0	

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460  
**CERTIFICATION**  
 Drinking Water (Potable Water)

<b>Secondary Inorganic Contaminants (Metals)</b>	Aluminum - EPA 200.7
	Aluminum - EPA 200.8
	Calcium - EPA 200.7
	Iron - EPA 200.7
	Magnesium - EPA 200.7
	Manganese - EPA 200.7
	Manganese - EPA 200.8
	Silver - EPA 200.7
	Silver - EPA 200.8
	Sodium - EPA 200.7
	Zinc - EPA 200.7
	Zinc - EPA 200.8
<b>SOC - Organochlorine Pesticides</b>	Aldrin - EPA 525.2
	Chlordane - EPA 505
	Dieldrin - EPA 525.2
	Endrin - EPA 525.2
	Heptachlor - EPA 525.2
	Heptachlor epoxide - EPA 525.2
	Lindane (gamma-BHC) - EPA 525.2
	Methoxychlor - EPA 525.2
	Toxaphene - EPA 505
<b>SOC - N/P Pesticides</b>	Alachlor - EPA 525.2
	Atrazine - EPA 525.2
	Butachlor - EPA 525.2
	Metolachlor - EPA 525.2
	Metribuzin - EPA 525.2
	Propachlor - EPA 525.2
	Simazine - EPA 525.2

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 CERTIFICATION  
 Drinking Water (Potable Water)

<b>SOC - Miscellaneous</b>	## PFAS (group) – EPA 537.1 (18)
	3-Hydroxycarbofuran - EPA 531.1
	Aldicarb - EPA 531.1
	Aldicarb Sulfone - EPA 531.1
	Aldicarb Sulfoxide - EPA 531.1
	Benzo[a]pyrene - EPA 525.2
	Carbaryl - EPA 531.1
	Carbofuran - EPA 531.1
	Di(2-ethylhexyl)adipate - EPA 525.2
	Di(2-ethylhexyl)phthalate - EPA 525.2
	Dibromochloropropane (DBCP) - EPA 504.1
	Diquat - EPA 549.2
	Endothall - EPA 548.1
	Ethylene Dibromide (EDB) - EPA 504.1
	Glyphosate - EPA 547
	Hexachlorobenzene - EPA 525.2
	Hexachlorocyclopentadiene - EPA 525.2
	Methomyl - EPA 531.1
Oxamyl (Vydate) - EPA 531.1	
PCBs (as Aroclors) Screening - EPA 505	
<b>Volatile Organic Compounds (VOC)</b>	## VOCS, REGULATED (group) - EPA 524.2
	## VOCS, UNREGULATED (group) - EPA 524.2

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460

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CERTIFICATION

Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

**Northern Lake Service Inc. (Crandon)**  
400 North Lake Ave  
Crandon, WI 54520-1286

**Printed on: 8/27/2021**  
**Expires on: 8/31/2022**

<b>Colorimetric or Turbidimetric</b>	Ammonia as N
	Cyanide, Total
	Kjeldahl Nitrogen, Total
	Nitrate
	Nitrate + Nitrite
	Orthophosphate
	Phenolics, Total
	Phosphorus, Total
<b>Gravimetric Assays - Residue (solids)</b>	Residue, Total
<b>Ion Chromatography (IC)</b>	Chloride
	Sulfate
<b>Titrimetric or Potentiometric Titration Assays</b>	Chemical Oxygen Demand (COD)
	Sulfide
<b>Cold Vapor Atomic Absorption Spectrophotometry (CVAA)</b>	Mercury

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460

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CERTIFICATION

Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

<b>Inductively Coupled Plasma Emission Spectrophotometry (ICP)</b>	
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Thallium
	Tin
	Titanium
	Vanadium
	Zinc

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# Wisconsin Scope of Accreditation

Laboratory FID: 721026460

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**CERTIFICATION**

Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

<b>Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)</b>	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Thallium
Tin	
Titanium	
Vanadium	
Zinc	
<b>Gas Chromatography (GC)</b>	## PESTICIDES, ORGANOCHLORINE (group)
	## PCB as AROCLORS (group)

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Laboratory FID: 721026460

CERTIFICATION

Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

<b>Gas Chromatography-Mass Spectrometry (GC/MS)</b>	## BNA - SEMIVOLATILE ORGANICS (group)
	## PAH (group)
	Alachlor
	Butylate
	Metolachlor
	Metribuzin
	Propachlor
	Trifluralin
	Chlorpyrifos
	Dimethoate
	Disulfoton
	Fonofos
	Parathion (Parathion Ethyl)
	Parathion Methyl
	Phorate
	Terbufos
	Atrazine
	Cyanazine
	Deethylatrazine
	Deisopropylatrazine
	Prometon
	Propazine
	Simazine
	EPTC (Eptam)
	## VOC - VOLATILE ORGANICS (group)
	<b>Solid Waste Leaching Procedures</b>
SPLP Extraction	
<b>Hazardous Waste Characteristics</b>	Corrosivity, Liquids
	TCLP Extraction

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