

The State of Wisconsin Department of Natural Resources

has granted

Accreditation under NR 149

to

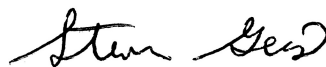
Northern Lake Service Inc. (Crandon)

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 28, 2022

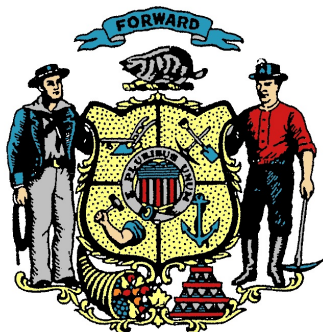
Expires on: August 31, 2023



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: 8/28/2022
Expires on: 8/31/2023

| | |
|---|--|
| Oxygen Demand Assays (BOD or cBOD) | Biochemical Oxygen Demand (BOD) |
| | Carbonaceous Biochemical Oxygen Demand (cBOD) |
| Colorimetric or Turbidimetric | Ammonia as N |
| | Chlorophyll |
| | Chromium, Hexavalent |
| | Cyanide, Available |
| | Cyanide, Total |
| | Kjeldahl Nitrogen, Total |
| | Nitrate |
| | Nitrate + Nitrite |
| | Orthophosphate |
| | Phenolics, Total |
| | Phosphorus, Total |
| Nondispersive Infrared (NDIR) or Microcoulometry | Organic Carbon, Total (TOC) |
| Electrometric Assays (ISE) | pH |
| | Specific Conductance |
| Gravimetric Assays - Residue (solids) | Residue, Filterable (TDS) |
| | Residue, Nonfilterable (TSS) |
| | Residue, Total (Total Solids) |
| | Residue, Volatile (TVS) |
| | Residue, Volatile, Nonfilterable (TVSS) |

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)

| | |
|--|--|
| Extraction/Gravimetric Assays - Oil & Grease as HEM | Oil & Grease as HEM |
| | Oil & Grease as HEM, Silica Gel Treated (SGT) |
| Ion Chromatography (IC) | Chloride |
| | Fluoride |
| | Nitrate |
| | Nitrate + Nitrite |
| | Nitrite |
| | Sulfate |
| Titrimetric or Potentiometric Titration Assays | Alkalinity |
| | Chemical Oxygen Demand (COD) |
| | Sulfide |
| Cold Vapor Atomic Absorption Spectrophotometry (CVAA) | Mercury |
| Inductively Coupled Plasma Emission Spectrophotometry (ICP) | Aluminum |
| | Antimony |
| | Arsenic |
| | Barium |
| | Beryllium |
| | Boron |
| | Cadmium |
| | Calcium |
| | Chromium, Total |
| Cobalt | |

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Wisconsin Scope of Accreditation

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

| | |
|--|--|
| Inductively Coupled Plasma Emission Spectrophotometry (ICP) | Copper |
| | Hardness, Total as CaCO₃ |
| | Iron |
| | Lead |
| | Lithium |
| | Magnesium |
| | Manganese |
| | Molybdenum |
| | Nickel |
| | Potassium |
| | Selenium |
| | Silver |
| | Sodium |
| | Strontium |
| | Thallium |
| | Tin |
| | Titanium |
| Vanadium | |
| Zinc | |
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Aluminum |
| | Antimony |
| | Arsenic |

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Wisconsin Scope of Accreditation

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

| | |
|--|------------------------|
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Barium |
| | Beryllium |
| | Cadmium |
| | Calcium |
| | Chromium, Total |
| | Cobalt |
| | Copper |
| | Iron |
| | Lead |
| | Lithium |
| | Magnesium |
| | Manganese |
| | Mercury |
| | Molybdenum |
| | Nickel |
| | Potassium |
| | Selenium |
| | Silver |
| | Sodium |
| | Strontium |
| Thallium | |
| Tin | |

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Wisconsin Scope of Accreditation

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

| | |
|---|---|
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Titanium |
| | Vanadium |
| | Zinc |
| Gas Chromatography (GC) | ## PCB as AROCLORS (group) |
| | ## PESTICIDES, ORGANOCHLORINE (group) |
| Gas Chromatography-Mass Spectrometry (GC/MS) | ## BNA - SEMIVOLATILE ORGANICS (group) |
| | ## PAH (group) |
| | ## VOC - VOLATILE ORGANICS (group) |
| | Dimethoate |
| | Disulfoton |
| | Parathion (Parathion Ethyl) |
| | Parathion Methyl |
| | Phorate |
| Liquid Chromatography-Mass Spectrometry (LC/MS) | ## PFAS (group) |
| Cold Vapor Atomic Fluorescence Spectrophotometry (CVAFS) | 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: 8/28/2022
Expires on: 8/31/2023

| | |
|---|--|
| Disinfection By-products | ## HALOACETIC ACIDS (5) - EPA 552.3 |
| | ## THM (group) - EPA 524.2 |
| Primary Inorganics Contaminants (Non-Metals) | Cyanide - SM 4500-CN C, E |
| | Fluoride - EPA 300.0 |
| | Nitrate - EPA 300.0 |
| | Nitrate - SM 4500-NO3 F |
| | Nitrate + Nitrite - EPA 300.0 |
| | Nitrate + Nitrite - SM 4500-NO3 F |
| | Nitrite - EPA 300.0 |
| Primary Inorganics Contaminants (Metals) | 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 |

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Wisconsin Scope of Accreditation

Laboratory FID: 721026460
 CERTIFICATION
 Drinking Water (Potable Water)

| | |
|--|-------------------------------------|
| Primary Inorganics Contaminants (Metals) | 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 |
| Secondary Inorganic Contaminants (Non-Metals) | Alkalinity - SM 2320B |
| | Chloride - EPA 300.0 |
| | Orthophosphate - SM 4500-P E |
| | Sulfate - EPA 300.0 |
| Secondary Inorganic Contaminants (Metals) | 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 |

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Laboratory FID: 721026460
 CERTIFICATION
 Drinking Water (Potable Water)

| | |
|---|----------------------------------|
| Secondary Inorganic Contaminants (Metals) | Zinc - EPA 200.8 |
| SOC - Organochlorine Pesticides | 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 |
| SOC - N/P Pesticides | 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 |
| SOC - Miscellaneous | ## 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 |

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| | |
|--|--|
| SOC - Miscellaneous | 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 | |
| Volatile Organic Compounds (VOC) | ## VOCS, REGULATED (group) - EPA 524.2 |
| | ## VOCS, UNREGULATED (group) - EPA 524.2 |

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Wisconsin Scope of Accreditation

Laboratory FID: 721026460
 CERTIFICATION

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

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

Printed on: 8/28/2022
Expires on: 8/31/2023

| | |
|---|------------------------------|
| Colorimetric or Turbidimetric | Ammonia as N |
| | Cyanide, Total |
| | Kjeldahl Nitrogen, Total |
| | Nitrate |
| | Nitrate + Nitrite |
| | Orthophosphate |
| | Phenolics, Total |
| | Phosphorus, Total |
| Gravimetric Assays - Residue (solids) | Residue, Total |
| Ion Chromatography (IC) | Chloride |
| | Sulfate |
| Titrimetric or Potentiometric Titration Assays | Chemical Oxygen Demand (COD) |
| | Sulfide |
| Cold Vapor Atomic Absorption Spectrophotometry (CVAA) | Mercury |
| Inductively Coupled Plasma Emission Spectrophotometry (ICP) | Aluminum |
| | Antimony |
| | Arsenic |
| | Barium |
| | Beryllium |
| | Boron |
| | Cadmium |

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Laboratory FID: 721026460
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Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

| | |
|--|------------------------|
| Inductively Coupled Plasma Emission Spectrophotometry (ICP) | Calcium |
| | Chromium, Total |
| | Cobalt |
| | Copper |
| | Iron |
| | Lead |
| | Lithium |
| | Magnesium |
| | Manganese |
| | Molybdenum |
| | Nickel |
| | Potassium |
| | Selenium |
| | Silver |
| | Sodium |
| | Strontium |
| | Thallium |
| Tin | |
| Titanium | |
| Vanadium | |
| Zinc | |
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Aluminum |

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Wisconsin Scope of Accreditation

Laboratory FID: 721026460
CERTIFICATION

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

| | |
|--|------------------------|
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Antimony |
| | Arsenic |
| | Barium |
| | Beryllium |
| | Cadmium |
| | Calcium |
| | Chromium, Total |
| | Cobalt |
| | Copper |
| | Iron |
| | Lead |
| | Magnesium |
| | Manganese |
| | Mercury |
| | Molybdenum |
| | Nickel |
| | Potassium |
| | Selenium |
| | Silver |
| | Sodium |
| Strontium | |
| Thallium | |

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 CERTIFICATION

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

| | |
|--|--|
| Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) | Tin |
| | Titanium |
| | Vanadium |
| | Zinc |
| Gas Chromatography (GC) | ## PCB as AROCLORS (group) |
| | ## PESTICIDES, ORGANOCHLORINE (group) |
| Gas Chromatography-Mass Spectrometry (GC/MS) | ## BNA - SEMIVOLATILE ORGANICS (group) |
| | ## PAH (group) |
| | ## VOC - VOLATILE ORGANICS (group) |
| | Dimethoate |
| | Disulfoton |
| | Parathion (Parathion Ethyl) |
| | Parathion Methyl |
| | Phorate |
| Liquid Chromatography-Mass Spectrometry (LC/MS) | ## PFAS (group) |
| Solid Waste Leaching Procedures | Reagent Water Shake Extraction (ASTM Leach) |
| | SPLP Extraction |
| Hazardous Waste Characteristics | Corrosivity, Liquids |
| | TCLP Extraction |

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