NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY CERTIFICATION

Minnesota Valley Testing Laboratories, Inc. - 2616 East Broadway Avenue - Bismarck, ND
is certified for the performance of the following analyses:

All Clean Water Act, Resource Conservation and Recovery Act
parameters on the most recent dated list of certified parameters for this Laboratory as maintained by
the North Dakota Environmental Laboratory Certification Officer for chemistry parameters

Date of Issue: August 21, 2026 Certificate Number: ND-016 Expiration Date: December 31, 2026

This Certificate remains the property of the North Dakota Department of Environmental Quality and may be removed, for cause, at any time by the Department. Certification by the North Dakota Department of Environmental Quality is neither an endorsement nor a guarantee of the validity or accuracy of the results reported by the laboratory.

Director, Division of Chemistry

Certification Officer

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Certified Parameters for
Minnesota Valley Testing Laboratories, Inc.
2616 East Broadway Avenue, Bismarck, ND
Issued by
North Dakota Department of Environmental Quality
Division of Chemistry
August 21, 2026
Certification Period: January 1, 2026 through December 31, 2026
Accompanies Certificate Number ND-016

Program	*Parameter*	*Method*	*Source #*	*Status*
Clean Water Act				
	Sulfide	SM 4500-S^{2-} C-2011	107	Certified
Resource Conservation and Recovery Act				
	Shake Extraction of Solid Waste	ASTM D3987-88	3	Certified
	Chloride in Aromatic Hydrocarbons	ASTM D5808-03	143	Certified
	Toxicity Characteristic Leaching Procedure (TCLP)	SW846 1311	81	Certified
	Synthetic Precipitation Leaching Procedure (SPLP)	SW846 1312	82	Certified
	Microwave Assisted Acid Digestion for Solids and Oils	SW846 3051A	96	Certified
	Paint Filter Liquids Test	SW846 9095B	85	Certified

Symbol Reference

Source Reference

3	Annual Book of ASTM Standards, 1994, 1996, 1999, Vols. 11.01 and 11.02, ASTM International, West Conshohocken, PA
81	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update I, July 1992, EPA Office of Solid Waste and Emergency Response
82	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update II, September 1994, EPA Office of Solid Waste and Emergency Response
85	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IIIB, November 2004, EPA Office of Solid Waste and Emergency Response
96	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IV, February 2007, EPA Office of Solid Waste and Emergency Response
107	Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association
143	Annual Book of ASTM Standards, Vol 06.04, ASTM International, any year containing the cited version of the method.

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
RECOGNITION OF CERTIFICATION OR ACCREDITATION

The North Dakota Department of Environmental Quality recognizes the certification or accreditation of

Minnesota Valley Testing Laboratories, Inc. - 2616 East Broadway Avenue - Bismarck, ND
by
State of Minnesota Department of Health, ELCP
for
All Clean Water Act, Resource Conservation and Recovery Act, Safe Drinking Water Act
chemical parameters by the methods on the accompanying list of certified parameters for this laboratory

Certification Number: ND-016

Date of Issue: August 21, 2026 Expiration Date: December 31, 2026 Covers: 1/1/2026 - 12/31/2026

This certificate remains the property of the North Dakota Department of Environmental Quality and may be recalled, for cause, at any time, by the Department. Recognition of an out-of-state laboratory's certification or accreditation from another state certification or accreditation program by the North Dakota Department of Environmental Quality is neither an endorsement of the results reported by the laboratory nor a guarantee of the validity or accuracy of the results reported by the laboratory.

Director, Division of Chemistry

Certification Officer

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Certified Parameters for
Minnesota Valley Testing Laboratories, Inc.
2616 East Broadway Avenue, Bismarck, ND
Issued by
North Dakota Department of Environmental Quality
Division of Chemistry
August 21, 2026
Certification Period: January 1, 2026 through December 31, 2026
Lab Certification No: ND-016
Based on Certificate No: 3029002
From the State of Minnesota Department of Health, ELCP

Program	*Parameter*	*Method*	*Source #*	*Status*
Clean Water Act				
	Sulfate	ASTM D516-16	159	Certified
	Oil and Grease (HEM)	EPA 1664 B	111	Certified
	Aluminum	EPA 200.7	2	Certified
	Barium	EPA 200.7	2	Certified
	Beryllium	EPA 200.7	2	Certified
	Boron	EPA 200.7	2	Certified
	Cadmium	EPA 200.7	2	Certified
	Calcium	EPA 200.7	2	Certified
	Chromium	EPA 200.7	2	Certified
	Chromium (Total)	EPA 200.7	2	Certified
	Cobalt	EPA 200.7	2	Certified
	Copper	EPA 200.7	2	Certified
	Iron	EPA 200.7	2	Certified
	Lead	EPA 200.7	2	Certified
	Magnesium	EPA 200.7	2	Certified
	Manganese	EPA 200.7	2	Certified
	Molybdenum	EPA 200.7	2	Certified
	Nickel	EPA 200.7	2	Certified
	Potassium	EPA 200.7	2	Certified
	Sodium	EPA 200.7	2	Certified
	Tin	EPA 200.7	2	Certified
	Titanium	EPA 200.7	2	Certified
	Vanadium	EPA 200.7	2	Certified
	Zinc	EPA 200.7	2	Certified
	Antimony	EPA 200.8	2	Certified
	Arsenic	EPA 200.8	2	Certified
	Barium	EPA 200.8	2	Certified
	Beryllium	EPA 200.8	2	Certified
	Cadmium	EPA 200.8	2	Certified
	Chromium	EPA 200.8	2	Certified
	Chromium (Total)	EPA 200.8	2	Certified
	Cobalt	EPA 200.8	2	Certified

Program		Parameter	Method	Source #	Status
Clean Water Act					
		Copper	EPA 200.8	2	Certified
		Lead	EPA 200.8	2	Certified
		Manganese	EPA 200.8	2	Certified
		Molybdenum	EPA 200.8	2	Certified
		Nickel	EPA 200.8	2	Certified
		Selenium	EPA 200.8	2	Certified
		Silver	EPA 200.8	2	Certified
		Thallium	EPA 200.8	2	Certified
		Uranium	EPA 200.8	2	Certified
		Vanadium	EPA 200.8	2	Certified
		Mercury	EPA 245.1	2	Certified
		Cyanide (Total)	EPA 335.4	9	Certified
		Ammonia as N	EPA 350.1	9	Certified
		Nitrate + Nitrite as N	EPA 353.2	9	Certified
		Nitrite as N	EPA 353.2	9	Certified
		Nitrate as N	EPA 353.2 (calc)	9	Certified
		Orthophosphate as P	EPA 365.1	9	Certified
		Phosphorus (Total)	EPA 365.1	9	Certified
		Phenolics (Total)	EPA 420.4	9	Certified
		Chemical Oxygen Demand (COD)	Hach 8000	45	Certified
		Total Kjeldahl Nitrogen (TKN)	PAI-DK01	103	Certified
		Turbidity	SM 2130 B-2020	169	Certified
		Alkalinity as CaCO3	SM 2320 B-2021	169	Certified
		Total Hardness as CaCO3	SM 2340 B-2021	169	Certified
		Conductivity	SM 2510 B-2021	169	Certified
		Sulfide	SM 4500 $S2^-$ D-2021	169	Certified
		Chloride	SM 4500-Cl^- E-2021	169	Certified
		pH	SM 4500-H+ B-2021	169	Certified
		Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	144	Certified
		Dissolved Organic Carbon	SM 5310 C-2014	144	Certified
		Total Organic Carbon (TOC)	SM 5310 C-2014 (23rd Ed)	144	Certified
		Filterable Residue (Total Dissolved Solids)	USGS I-1750-85	39	Certified
		Total Solids	USGS I-3750-85	39	Certified
		Non-filterable Residue (Total Suspended Solids)	USGS I-3765-85	39	Certified
Resource Conservation and Recovery Act					
	**	Ignitability	SW846 1020B	85	Certified
		Aluminum	SW846 6010D	131	Certified
		Barium	SW846 6010D	131	Certified
		Beryllium	SW846 6010D	131	Certified
		Boron	SW846 6010D	131	Certified
		Cadmium	SW846 6010D	131	Certified
		Calcium	SW846 6010D	131	Certified
		Chromium	SW846 6010D	131	Certified
		Cobalt	SW846 6010D	131	Certified
		Copper	SW846 6010D	131	Certified
		Iron	SW846 6010D	131	Certified
		Lead	SW846 6010D	131	Certified
	*	Lithium	SW846 6010D	131	Certified

Program		Parameter	Method	Source #	Status
Resource Conservation and Recovery Act					
		Magnesium	SW846 6010D	131	Certified
		Manganese	SW846 6010D	131	Certified
		Molybdenum	SW846 6010D	131	Certified
		Nickel	SW846 6010D	131	Certified
		Potassium	SW846 6010D	131	Certified
		Sodium	SW846 6010D	131	Certified
		Strontium	SW846 6010D	131	Certified
		Tin	SW846 6010D	131	Certified
		Titanium	SW846 6010D	131	Certified
		Vanadium	SW846 6010D	131	Certified
		Zinc	SW846 6010D	131	Certified
		Antimony	SW846 6020B	131	Certified
		Arsenic	SW846 6020B	131	Certified
		Barium	SW846 6020B	131	Certified
		Beryllium	SW846 6020B	131	Certified
		Cadmium	SW846 6020B	131	Certified
		Chromium	SW846 6020B	131	Certified
		Cobalt	SW846 6020B	131	Certified
		Copper	SW846 6020B	131	Certified
		Lead	SW846 6020B	131	Certified
		Manganese	SW846 6020B	131	Certified
		Molybdenum	SW846 6020B	131	Certified
		Nickel	SW846 6020B	131	Certified
		Selenium	SW846 6020B	131	Certified
		Silver	SW846 6020B	131	Certified
		Thallium	SW846 6020B	131	Certified
		Uranium	SW846 6020B	131	Certified
		Vanadium	SW846 6020B	131	Certified
	*	Mercury	SW846 7470A	82	Certified
	**	Mercury	SW846 7471B	96	Certified
	*	pH	SW846 9045C	82	Certified
Safe Drinking Water Act					
		Sulfate	ASTM D516-16	156	Certified
		Aluminum	EPA 200.7	2	Certified
		Barium	EPA 200.7	2	Certified
		Calcium	EPA 200.7	2	Certified
		Chromium	EPA 200.7	2	Certified
		Copper	EPA 200.7	2	Certified
		Magnesium	EPA 200.7	2	Certified
		Manganese	EPA 200.7	2	Certified
		Nickel	EPA 200.7	2	Certified
		Sodium	EPA 200.7	2	Certified
		Zinc	EPA 200.7	2	Certified
		Antimony	EPA 200.8	2	Certified
		Arsenic	EPA 200.8	2	Certified
		Barium	EPA 200.8	2	Certified
		Beryllium	EPA 200.8	2	Certified
		Cadmium	EPA 200.8	2	Certified

Program	Parameter	Method	Source #	Status
Safe Drinking Water Act				
	Chromium	EPA 200.8	2	Certified
	Copper	EPA 200.8	2	Certified
	Lead	EPA 200.8	2	Certified
	Manganese	EPA 200.8	2	Certified
	Nickel	EPA 200.8	2	Certified
	Selenium	EPA 200.8	2	Certified
	Silver	EPA 200.8	2	Certified
	Thallium	EPA 200.8	2	Certified
	Uranium	EPA 200.8	2	Certified
	Mercury	EPA 245.1	2	Certified
	Nitrate as N	EPA 353.2	9	Certified
	Nitrite as N	EPA 353.2	9	Certified
	Orthophosphate as P	EPA 365.1	9	Certified
	Residue-filterable (Total Dissolved Solids)	SM 2540 C (24th Edition)	169	Certified
	Conductivity	SM 2510 B (24th Edition)	169	Certified
	Fluoride	SM 4500-F^- C (24th Edition)	169	Certified
	pH	SM 4500-H+ B (24th Edition)	169	Certified
	Total Organic Carbon (TOC)	SM 5310 C-2014 (23rd Ed)	144	Certified

Symbol Reference

*	Limited to RCRA Water Samples Only
**	Limited to RCRA Solid Samples Only

Source Reference

2	"Methods for the Determination of Metals in Environmental Samples - Supplement I", EPA/600/R-94/111, May 1994
9	"Methods for the Determination of Inorganic Substances in Environmental Samples", EPA/600/R-93-100, August 1993
39	"Methods for Analysis of Inorganic Substances in Water and Fluvial Sediments," U.S. Department of the Interior, Techniques of Water-Resource Investigations of the U.S. Geological Survey, Denver, CO, Revised 1989, unless otherwise stated
45	Hach Handbook of Water Analysis, 1979, Hach Chemical Company, Loveland, CO
82	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update II, September 1994, EPA Office of Solid Waste and Emergency Response
85	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IIIB, November 2004, EPA Office of Solid Waste and Emergency Response
96	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IV, February 2007, EPA Office of Solid Waste and Emergency Response
103	OI Analytical/ALPKEM, P.O. Box 9010, College Station, TX, Revised 12/22/94.
111	www.epa.gov/waterscience/methods/
131	Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update V, July 2014, EPA Office of Solid Waste and Emergency Response
144	Standard Methods for the Examination of Water and Wastewater, 23rd Edition, American Public Health Association
156	ASTM 2016 EDITION - Standard Test Method for Sulfate Ion in Water - June 15, 2016
159	Annual Book of ASTM Standards, Section Eleven - Water and Evnironmental Technology, Volume 11.01, 2016 or any year containing the cited version of the method, ASTM International, West Conshohocken, PA
169	Standard Methods for the Examination of Water and Wastewater, 24th edition, American Public Health Association