



REGION 5

CHICAGO, IL 60604

July 19, 2024

Mr. Stefan Saravia
Minnesota Department of Health
Public Health Laboratory Division
601 Robert Street North
Saint Paul, Minnesota 55164

Dear Mr. Saravia:

The U.S. Environmental Protection Agency conducted an onsite audit of the Minnesota Department of Health's drinking water laboratory the week of September 11, 2023. The purpose of the audit was to evaluate the laboratory's capabilities to conduct analysis of drinking water samples for radiological, chemical, and microbiological contaminants, pursuant to the National Primary Drinking Water Regulations as codified at 40 C.F.R. Parts 141 and 142.

The information provided in your audit response fully addressed all findings. The enclosed Corrective Action Reports will serve as your final response to the audit reports. In addition, a revised radiochemistry Onsite Laboratory Audit Summary Report is enclosed to address errors identified in the "laboratory personnel" (section 2.0) and "analytical method references" (section 4.0).

Certification status is granted based on the information obtained during the onsite audit, the corrective actions required and implemented, recommendations of the certification officers, and proficiency testing sample results. The U.S. Environmental Protection Agency grants to the Minnesota Department of Health, located at 601 Robert Street North, Saint Paul, Minnesota, 55164, Full Certification for the analytes and methods identified in Enclosure A. This certificate supersedes all previous certificates issued.

Certification lasts for three years from the date of your last onsite audit, provided your laboratory continues to demonstrate acceptable performance through the analysis of annual proficiency testing samples. If you have any questions or require clarification concerning this letter, please contact Nakieta Mitchell, the Regional Laboratory Certification Program Manager, at (312) 353-9085 or by E-mail at mitchell.nakieta@epa.gov.

Sincerely,

**GEORGE
SCHUPP**

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George Schupp
Deputy Director, Laboratory Services and Applied Science Division
US EPA Region 5 Drinking Water Certification Authority

Enclosures

Cc: Kristen Leckrone
Mark Ackerman
Nicole Shumard
Cori Dahle
Katerina Cronin
Shane Olund
Jeffrey Brenner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 5 Laboratory Certification Program

Drinking Water Certified Analyte List

Minnesota Department of Health

601 Robert Street North, Saint Paul, Minnesota 55164

Effective: September 11, 2023	Expiration: September 11, 2026	List Date: July 18, 2024
Analyte	Method, 40 CFR	Certification Status
<u>Inorganic Contaminants (IOCs)</u>		
Calcium	EPA 200.7, Rev. 4.4 (1994)	Full Certification
Iron	EPA 200.7, Rev. 4.4 (1994)	Full Certification
Magnesium	EPA 200.7, Rev. 4.4 (1994)	Full Certification
Sodium	EPA 200.7, Rev. 4.4 (1994)	Full Certification
Aluminum	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Antimony	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Arsenic	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Barium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Beryllium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Cadmium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Chromium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Copper	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Lead	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Manganese	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Nickel	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Selenium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Silver	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Thallium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Zinc	EPA 200.8, Rev. 5.4 (1994)	Full Certification
Mercury	EPA 245.1, Rev. 3.0 (1994)	Full Certification
Bromide	EPA 300.1, Rev. 1.0 (1997)	Full Certification
Chloride	EPA 300.1, Rev. 1.0 (1997)	Full Certification
Sulfate	EPA 300.1, Rev. 1.0 (1997)	Full Certification
Cyanide, Total	EPA 335.4, Rev. 1.0 (1993)	Full Certification
Nitrate + Nitrite	EPA 353.2, Rev. 2.0 (1993)	Full Certification
Orthophosphate	EPA 365.1, Rev. 2.0 (1993)	Full Certification
Orthophosphate	SM 4500-P F, 22 nd ed.	Full Certification
Alkalinity	SM 2320 B, 22 nd ed.	Full Certification
Hardness	SM 2340 B, 22 nd ed.	Full Certification
Cyanide, Free	SM 4500-CN F, 22 nd ed.	Full Certification
Fluoride	SM 4500-F C, 22 nd ed.	Full Certification
Nitrite	SM 4500 NO2 B, 22 nd ed.	Full Certification
Silica	SM 4500 SiO2 C, 22 nd ed.	Full Certification
Dissolved Organic Carbon	SM 5310 B, 22 nd ed.	Full Certification
Total Organic Carbon	SM 5310 B, 22 nd ed.	Full Certification
UV-254	SM 5910 B, 22 nd ed.	Full Certification

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Analyte	Method, 40 CFR	Certification Status
<u>Volatile Organic Compounds (VOCs)</u>		
1,1,1-Trichloroethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,1,2-Trichloroethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,1-Dichloroethene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,2,4-Trichlorobenzene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,2-Dichlorobenzene (ortho)	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,2-Dichloroethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,2-Dichloropropane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
1,4-Dichlorobenzene (para)	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Benzene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Carbon tetrachloride	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Chlorobenzene (mono)	EPA 524.3, Rev. 1.0 (2009)	Full Certification
cis-1,2-Dichloroethylene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Dichloromethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Ethylbenzene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Styrene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Tetrachloroethylene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Toluene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
trans-1,2-Dichloroethene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Trichloroethene	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Vinyl chloride	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Xylenes (total)	EPA 524.3, Rev. 1.0 (2009)	Full Certification
<u>Total Trihalomethanes (TTHM):</u>		
Bromodichloromethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Bromoform	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Chloroform	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Dibromochloromethane	EPA 524.3, Rev. 1.0 (2009)	Full Certification
Total Trihalomethanes	EPA 524.3, Rev. 1.0 (2009)	Full Certification
<u>Haloacetic Acids (HAA5):</u>		
Dibromoacetic acid (DBA)	EPA 552.3, Rev. 1.0 (2003)	Full Certification
Dichloroacetic acid (DCA)	EPA 552.3, Rev. 1.0 (2003)	Full Certification
Monobromoacetic acid (MBA)	EPA 552.3, Rev. 1.0 (2003)	Full Certification
Monochloroacetic acid (MCA)	EPA 552.3, Rev. 1.0 (2003)	Full Certification
Trichloroacetic acid (TCA)	EPA 552.3, Rev. 1.0 (2003)	Full Certification
Total Haloacetic Acids	EPA 552.3, Rev. 1.0 (2003)	Full Certification
<u>Synthetic Organic Compounds (SOCs): Pesticides</u>		
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1, Rev. 1.1 (1995)	Full Certification
1,2-Dibromoethane (EDB)	EPA 504.1, Rev. 1.1 (1995)	Full Certification
Chlordane, Technical	EPA 505, Rev. 2.1 (1995)	Full Certification
Toxaphene	EPA 505, Rev. 2.1 (1995)	Full Certification
2,4,5-TP (Silvex)	EPA 515.4, Rev. 1.0 (2000)	Full Certification
2,4-D	EPA 515.4, Rev. 1.0 (2000)	Full Certification
Dalapon	EPA 515.4, Rev. 1.0 (2000)	Full Certification
Dinoseb	EPA 515.4, Rev. 1.0 (2000)	Full Certification
Pentachlorophenol	EPA 515.4, Rev. 1.0 (2000)	Full Certification
Picloram	EPA 515.4, Rev. 1.0 (2000)	Full Certification

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Alachlor	EPA 525.2, Rev 2.0 (1995)	Full Certification
Atrazine	EPA 525.2, Rev 2.0 (1995)	Full Certification
Benzo(a)pyrene	EPA 525.2, Rev 2.0 (1995)	Full Certification
Di(2-ethylhexyl)adipate	EPA 525.2, Rev 2.0 (1995)	Full Certification
Di(2-ethylhexyl)phthalate	EPA 525.2, Rev 2.0 (1995)	Full Certification
Endrin	EPA 525.2, Rev 2.0 (1995)	Full Certification
Heptachlor	EPA 525.2, Rev 2.0 (1995)	Full Certification
Heptachlor epoxide	EPA 525.2, Rev 2.0 (1995)	Full Certification
Hexachlorobenzene	EPA 525.2, Rev 2.0 (1995)	Full Certification
Hexachlorocyclopentadiene	EPA 525.2, Rev 2.0 (1995)	Full Certification
Lindane	EPA 525.2, Rev 2.0 (1995)	Full Certification
Methoxychlor	EPA 525.2, Rev 2.0 (1995)	Full Certification
Simazine	EPA 525.2, Rev 2.0 (1995)	Full Certification
Carbofuran	EPA 531.2, Rev. 1.0 (2001)	Full Certification
Oxamyl	EPA 531.2, Rev. 1.0 (2001)	Full Certification
Glyphosate	EPA 547 (1990)	Full Certification
<u>Radiochemical Contaminants:</u>		
Gamma Emitters	SM 7120, Gamma Ray Spectrometry, 22 nd ed.	Full Certification
Gross Alpha	EPA 900.0, Rev. 1.0, Evaporation	Full Certification
Gross Beta	EPA 900.0, Rev. 1.0, Evaporation	Full Certification
Radium-226	EPA 903.0, Rev. 1.0, Radiochemical	Full Certification
Radium-228	EPA 904.0, Radiochemical	Full Certification
Tritium	EPA 600/4-75-008, March 1976, p.34	Full Certification
Uranium	EPA 200.8, Rev. 5.4 (1994)	Full Certification
<u>Microbiological Contaminants:</u>		
Total Coliform & <i>E.coli</i> (P/A)	SM 9223 B Colilert, 22 nd ed.	Full Certification
Total Coliform & <i>E.coli</i> (P/A)	SM 9223 B Colilert-18, 22 nd ed.	Full Certification
Total Coliform & <i>E.coli</i> (P/A)	SM 9223 B Colisure, 22 nd ed.	Full Certification
Total Coliform & <i>E.coli</i> (MPN)	SM 9223 B Colilert Quanti-Tray, 22 nd ed.	Full Certification
Total Coliform & <i>E.coli</i> (MPN)	SM 9223 B Colilert-18 Quanti-Tray, 22 nd ed.	Full Certification
Heterotrophic Plate Count	IDEXX SimPlate (2000)	Full Certification
END OF LIST		



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

**77 West Jackson Blvd
Chicago, Illinois 60604**

**Issued to the
Minnesota Department of Health
601 Robert Street North
Saint Paul, Minnesota 55164**

Safe Drinking Water Act (SDWA) Laboratory Certificate

**Effective Date: September 11, 2023
Expiration Date: September 11, 2026**

Minnesota Department of Health
in accordance with the Title 40, Code of Federal Regulations Parts 141 and 142 is
CERTIFIED to perform radiological, chemical, and microbiological analyses on Drinking Water for the analytes and
methods listed on the attached certified analyte list. Certification status is granted based upon current required SDWA analytical capabilities for
primacy, information obtained during the latest on-site visit, and laboratory proficiency testing sample performance.
Continuous certification depends on successful, ongoing participation in the program.

GEORGE SCHUPP

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**George Schupp, Director Laboratory Services & Applied Science Division
Drinking Water Laboratory Certification Authority**