



**Northern Settlement of Sled Lake
Drinking Water Quality and Compliance
Annual Notice to Consumers
2024**

Introduction

The Water Security Agency and the Ministry of Environment require that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Minister's Order or Permit to Operate a waterworks. The following is a summary of the **Northern Settlement of Sled Lake** water quality and sample submission compliance record from January 1, 2024, to December 31, 2024. This report was completed on March 21, 2025. Readers should refer to the Water Security Agency's "Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502" for more information on minimum sample submission requirements. Permit requirements for specific waterworks may require more sampling than outlined in the department's monitoring guidelines. If consumers need more information on the nature and significance of specific water tests, for example, "What is the significance of selenium in a water supply", more detailed information is available from http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html.

Water Quality Standards

Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (%)
Total Coliform	0 Organisms/100 mg/L	24	23	0%
E. coli	0 Organisms/100 ml	24	23	0%
Background Bacteria	Less than 200 Organisms/100 mL	24	23	0%

The owner/operator is responsible for ensuring that 100 percent of all bacteriological samples are submitted as required. All waterworks are required to submit samples for bacteriological water quality, the frequency of monitoring depends on the population served by the waterworks.

Water Disinfection

Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (mg/L)	Free Chlorine Residual Range	Total Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine Residual	0.16 mg/L free OR 0.5 mg/L total	0.12- 1.09	0.30- 1.13	24	25	92%

A minimum of 0.16 milligrams per litre (mg/L) free chlorine residual OR 0.5 mg/L total chlorine residual is always required throughout the distribution system unless otherwise approved. A proper chlorine submission is defined as a bacteriological sample submission form with both the free and total chlorine residual fields filled out. Adequate chlorine is a result that indicates that the chlorine level is above the regulated minimum. Adequate chlorine may be counted even if the chlorine results were submitted incorrectly. A waterworks is required to submit chlorine residual test results on every bacteriological sample they submit.



Water Disinfection

Free Chlorine Residual for Water Entering Distribution System from Waterworks Records-From Water Treatment Plant Records

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Free Chlorine Residual	at least 0.16	0.17 - 1.09	365	0

A minimum of 0.16 milligrams per liter (mg/L) of free chlorine residual is required for water entering the distribution system. Tests are normally performed daily by the waterworks operator and are to be recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values), and the number of tests and percentage of results not meeting the minimum requirement of 0.16 mg/L free chlorine residual.

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	< 1.0	0.12 – 0.92	0	0.92	1 per day	365

Turbidity is a measure of water treatment efficiency. Turbidity measures the “clarity” of the drinking water and is generally reported in Nephelometric Turbidity Units (NTU). All waterworks are required to monitor turbidity at the water treatment plant. The frequency of measurement varies from daily for small systems to continuous for larger waterworks.

Chemical – Health Category

All waterworks serving less than 5000 persons are required to submit water samples for SE’s chemical health category once every two years. The chemical health category includes analysis for arsenic, barium, boron, cadmium, chromium, fluoride, lead, nitrate, selenium and uranium. The last sample for chemical health analysis was submitted on June 8, 2023. Sample results indicated that the provincial drinking water quality standards were not exceeded. The next scheduled test will be taken in 2025 as per permit requirements.



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General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical category once every two years if a groundwater source or once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO₃), magnesium, sodium, sulfate, and total dissolved solids.

A general chemical analysis was submitted on June 8, 2023, and met all drinking quality water standards. The next scheduled test will be taken in 2025 as per permit requirements.

*Objectives apply to certain characteristics of substances found in water for human consumption or hygienic use. The presence of these substances will affect the acceptance of water by consumers and/or interfere with the practice of supplying good quality water. Compliance with drinking water aesthetic objectives is not mandatory as these objectives are in the range where they do not constitute health hazards. The aesthetic objectives for several parameters (including hardness such as CaCO₃, magnesium, sodium, and total dissolved solids) consider regional differences in drinking water sources and quality.



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More information on water quality and sample submission performance may be obtained from:

Northern Municipal Trust Account
Northern Settlement of Sled Lake
c/o District Public Works Manager
Box 113 La Ronge, SK. S0J 1L0
E-mail address: nms@gov.sk.ca