

## Drinking Water Quality and Compliance

### Northern Settlement of Wollaston Lake – 2021 Annual Notice to Consumers

#### Introduction

The Water Security Agency and the Ministry of Environment requires 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 Wollaston Lake water quality and sample submission compliance record for the January 1, 2021 to December 31, 2021 time period. This report was completed on June 24, 2022. Readers should refer to Water Security Agency's Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502 for more information on minimum sample submission requirements and the meaning of type of sample. Permit requirements for a 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](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 and	0 Organisms/100 mL	24	11	0%
E. coli	0 Organisms/100 mL	24	5	0%
Background Bacteria	Less than 200/100 mL			

#### Water Disinfection –

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

Parameter	Minimum Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	0.20 to 0.76	0.13 to .72	24	10	50%

#### 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 0.1	0.02 to 1.56	353	11

A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are normally performed on a daily basis 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 0.1 mg/L free chlorine residual.

#### Turbidity – From Water Treatment Plant Records

Parameter	Limit	Test Level # Tests Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	>0.3 NTU	No Data	24	N/A	24	0



**Saskatchewan  
Ministry of  
Environment**



**Chemical – Health Category**

All waterworks serving less than 5000 persons are required to submit water samples for SE's Chemical Health category once every 2 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 August 26, 2020. Sample results indicated that the provincial drinking water quality standards were not exceeded. The next required sample to be submitted is due in 2022.

**Chemical – Trihalomethanes (THMs)**

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0.035	4 (1 every 3 months)	3
Haloacetic Acids	0.08	0.025	4 (1 every 3 months)	3

**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 ground water source and 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 CaCO<sub>3</sub>), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was submitted on August 26, 2020. Sample results indicated that there were no exceedences of the provincial aesthetic objectives for the General Chemical. The next sample is due in 2022.

The Northern Settlement of Wollaston Lake's Permit to Operate a Waterworks duration is from March 31, 2020 and expires on March 31, 2022. The permit is posted in the Water Testing Building or copies can be obtained from the address below.

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

Northern Municipal Trust Account  
 Northern Settlement of Wollaston Lake  
 C/O NMS Advisor  
 Box 113 LA RONGE, SK S0J 1L0  
 Tel: 1-800-663-1555  
 Fax: 1-306-425-2401  
 E-mail address: nms@gov.sk.ca

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