Drinking Water Quality and Compliance Town Short Form – A Template for Annual Notice to Consumers

(Note: This short form may be used for communities or waterworks serving a population of less than 5000).

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 Town of Leader water quality and sample submission compliance record for the January 1, 2024 to December 31, 2024 time period. This report was completed on May 22, 2025 (must be completed before June 30 each year on a calendar year-based reporting frequency). 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.

Water Quality Standards Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (%)
Total Coliform	0 Organisms/100 mL	52	52	0
E. coli	0 Organisms/100 mL	52	52	0
Background Bacteria	Less than 200/100 mL		N/A	

Water Disinfection -

Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples							
	Minimum	Total Chlorine	Free Chlorine	# Tests	# Tests	# Adequate	
Parameter	Limit	Residual Range	Residual Range	Required	Submitted	Chlorine (%)	
Chlorine	0.1 mg/L free OR						
Residual	0.5 mg/L total	<u>.16 – 1.96</u> _	33 - 2.50	52	52	100%	

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

		Test Level	# Tests	# Tests Not Meeting
Parameter	Limit (mg/L)	Range	Performed	Requirements
Free Chlorine Residual	at least 0.1	<u>.88 – 3.00</u>	365	0

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 (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	30	10 - 1.60	62	<u>1.60</u>	730	730
Precautionary	/ Water Advi	sory was in place o	during the time that test	s didn't meet require	ements (due	to work on the
honeycombs)						

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 February 12, 2024. Sample results indicated that the provincial drinking water quality standards were not exceeded.





Parameter	Limit MAC(mg/L)	Limit IMAC (mg/L)	Sample Result(s)	# Samples Exceeding Limit	
Arsenic	0.010		0003	0	* Results expressed
Barium	1.0		0733	0	_ as average values
Boron		5.0	_<0.1	0	for communities or
Bromate	0.01		N/A	<u>N/A</u>	waterworks that
Cadmium	0.005		00015	0	_ fluoridate drinking
Chlorate	1.0		N/A	<u>N/A</u>	_ water supplies or
Chlorite	1.0		N/A	N/A	those with elevated
Chromium	0.05		00019	0	concentrations of
Fluoride (avg*)	1.5		.13	0	_ fluoride or nitrates.
Lead	0.01		00007	00	_
Nitrate (avg.*)	45.0		3.2	0	_
Selenium	0.01		00113		_
Uranium	0.02		.0007	<u>0</u>	_

Chemical - Trihalomethanes (THMs) and Halo acetic Acids (HAAs)

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0464	4 (1 every 3 months)	4
Halo acetic Acids	0.08	.04125	4 (1 every 3 months)	4

Note: Only water supplies derived from surface water or groundwater under the influence of surface water are required to monitor for THMs and HAAs. Waterworks using groundwater sources beyond the influence of surface water do not need to report THMs or HAAs since sampling/analysis will not likely have been performed unless otherwise noted in the waterworks permit to operate

General Chemical

Ceneral Offentical							
Aesthetic	Sample Results		# Samples				
Objectives * (mg/L)	(average)	Required	Submitted				
500	<u>160</u>	<u>1</u>	<u>1</u>				
No Objective	<u>195</u>	1	1				
No Objective	61	1	1				
No Objective	0	1	1				
250	22	1	1				
No Objective	584	1	1				
800	251	1	1				
200	24	1	1				
No Objective	7.6	1	1				
300	28	1	1				
500	113.7	1	1				
1500	<u>450</u>	<u>1</u>	<u>1</u>				
	Aesthetic Objectives * (mg/L) 500 No Objective No Objective No Objective 250 No Objective 800 200 No Objective 300 500	Aesthetic Sample Results Objectives * (mg/L) (average) 500 160 No Objective 195 No Objective 0 250 22 No Objective 584 800 251 200 24 No Objective 7.6 300 28 500 113.7	Aesthetic Sample Results # Samples Objectives * (mg/L) (average) Required 500 160 1 No Objective 195 1 No Objective 0 1 250 22 1 No Objective 584 1 800 251 1 200 24 1 No Objective 7.6 1 300 28 1 500 113.7 1				

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 CaCO₃), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was required on 2024 and submitted on *January 31, 2024*). Sample results indicated that there were no exceedences of the provincial aesthetic objectives for the General Chemical category.

*Objectives apply to certain characteristics of or substances found in water for human consumptive 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 a health hazard. The aesthetic objectives for several parameters (including hardness as CaCO₃, magnesium, sodium and total dissolved solids) consider regional differences in drinking water sources and quality.





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

Town of Leader

Box 39 Leader, SK S0N 1H0

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E-mail address: townoffice@leader.ca

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