

2025 Drinking Water Quality and Compliance Town of Duck Lake, Saskatchewan

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 Duck Lake water quality and sample submission compliance record for the **January 1 – December 31, 2025**, time period. This report was completed on *June 24, 2026*. 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-smrt/pubs/water-eau/index_e.html.

Water Quality Standards

Bacteriological Quality

Positive Regular Parameter/Location	Limit	Regular Samples	Regular Samples	# of
		Required	Submitted	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

Parameter	Minimum Limit Chlorine (%)	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Performed	# Tests Required	# Adequate Submitted
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	.052 – 2.20	.12 – 1.86	52	52	100

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	.06 – 1.96	365	1

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	# Tests
Turbidity	1.0	.09 - 2.81	5	2.81	365	365

Chemical – Health Category (See Attached)

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 April 1, 2026. 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			* Results expressed as average values for communities or waterworks that fluoridate drinking water supplies or those with elevated concentrations of fluoride or nitrates.
Barium	1.0			
Boron	5.0			
Bromate	0.01			
Cadmium	0.005			
Chlorate	1.0			
Chlorite	1.0			
Chromium	0.05			
Fluoride (avg*)	1.5			
Lead	0.01			
Nitrate (avg.*)	45.0			
Selenium	0.01			
Uranium	0.02			

Chemical – Trihalomethanes (THMs)and Haloacetic Acids (HAAs)

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

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 (See Attached)

Parameter	Aesthetic Objectives * (mg/L)	Sample Results (average)	# Samples Required	# Samples Submitted
Alkalinity	500			
Bicarbonate	No Objective			
Calcium	No Objective			
Carbonate	No Objective			
Chloride	250			
Conductivity	No Objective			
Hardness	800			
Magnesium	200			
PH	No Objective			
Sodium	300			
Sulphate	500			
Total dissolved Solids	1500			

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 submitted on April 1, 2026. 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 Duck Lake
Box 430
Duck Lake, SK S0K 1J0
Phone: 306-467-2277
Fax: 306-467-4434
info@ducklake.ca

June 2016 EPB 536D



Test Report

SRC Group # 2026-3141

Apr 01, 2026

Town of Duck Lake
Box 430
Duck Lake, SK S0K 1J0
Attn: Jim Martin

Date Samples Received: Mar-25-2026

Client P.O.:

9489 SK05HH0007 03/24/2026 08:00 TOWN OF DUCK LAKE - WTP - TOWN SHOP *WATER*

Analyte	Units	9489
Lab Section 1		
Bicarbonate*	mg/L	421
Carbonate*	mg/L	<1
Chloride*	mg/L	13
Hydroxide*	mg/L	<1
P. alkalinity*	mg/L	<1
pH*	pH units	7.59
Specific conductivity*	uS/cm	717
Sum of ions	mg/L	615
Total alkalinity*	mg/L	345
Total hardness*	mg/L	360
Nitrate*	mg/L	<0.4
Fluoride*	mg/L	0.19
Total dissolved solids*	mg/L	444
Lab Section 2		
Calcium*	mg/L	108
Magnesium*	mg/L	22
Potassium*	mg/L	1.7
Sodium*	mg/L	16
Sulfate*	mg/L	33
Aluminum*	mg/L	<0.0005
Antimony*	mg/L	<0.0002
Arsenic*	ug/L	0.2
Barium*	mg/L	0.35
Boron*	mg/L	0.02
Cadmium*	mg/L	<0.00001
Chromium*	mg/L	<0.0005
Copper*	mg/L	0.053
Iron*	mg/L	0.30
Lead*	mg/L	0.0002
Manganese*	mg/L	0.074
Selenium*	mg/L	<0.0001

Test Report

SRC Group # 2026-3141

Apr 01, 2026

Town of Duck Lake

9489 SK05HH0007 03/24/2026 08:00 TOWN OF DUCK LAKE - WTP - TOWN SHOP *WATER*

Analyte	Units	9489
Lab Section 2		
Silver*	mg/L	<0.00005
Uranium*	ug/L	0.4
Zinc*	mg/L	0.0084
Lab Section 3		
THM1: Chloroform*	ug/L	100
THM2: Bromodichloromethane*	ug/L	13
THM3: Chlorodibromomethane*	ug/L	1
THM4: Bromoform*	ug/L	<2
Total trihalomethanes (calc.)	ug/L	114

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 9.6 °C upon receipt.

The information in this report will be shared with the Water Security Agency.

Test Report

SRC Group # 2026-3141

Apr 01, 2026

Town of Duck Lake

Analyte Methods

Name	Units	Method
P. alkalinity	mg/L	Chm-212
Chloride	mg/L	Chm-115
Carbonate	mg/L	Chm-212
Fluoride	mg/L	Chm-212
Bicarbonate	mg/L	Chm-212
Nitrate	mg/L	Chm-124
Hydroxide	mg/L	Chm-212
pH	pH units	Chm-212
Total dissolved solids	mg/L	Chm-203
Specific conductivity	uS/cm	Chm-212
Sum of ions	mg/L	Calculation
Total hardness	mg/L	Calculation
Total alkalinity	mg/L	Chm-212
Silver	mg/L	Chm-522
Aluminum	mg/L	Chm-522
Arsenic	ug/L	Chm-522
Boron	mg/L	Chm-522
Barium	mg/L	Chm-522
Calcium	mg/L	Chm-508
Cadmium	mg/L	Chm-522
Chromium	mg/L	Chm-522
Copper	mg/L	Chm-522
Iron	mg/L	Chm-522
Potassium	mg/L	Chm-508
Magnesium	mg/L	Chm-508
Manganese	mg/L	Chm-522
Sodium	mg/L	Chm-508
Lead	mg/L	Chm-522
Antimony	mg/L	Chm-522
Selenium	mg/L	Chm-522
Sulfate	mg/L	Chm-508
Uranium	ug/L	Chm-522
Zinc	mg/L	Chm-522
Total trihalomethanes (calc.)	ug/L	Glc-119
THM1: Chloroform	ug/L	Glc-119
THM2: Bromodichloromethane	ug/L	Glc-119
THM3: Chlorodibromomethane	ug/L	Glc-119
THM4: Bromoform	ug/L	Glc-119