

**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 Duck Lake water quality and sample submission compliance record for the January 1 2018 to January 1 2019 time period. This report was completed on January 24, 2019. 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			

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	.24-1.9652	.05-1.49	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	.10-2.56	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	1	.06-.84	0	.84	417	417

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 *Feb 22 / 19* (insert date). Sample results indicated that the provincial drinking water quality standards were not exceeded. *(Use this one if review indicates that there were no exceedences).* **(OR)** Samples exceeded provincial water quality standards for the following parameters: *(Use only the applicable portions of table below for which values have been exceeded).*

Town of Duck Lake
Box 430
Duck Lake, SK S0K 1J0
Attn: Don Gehon

Date Samples Received: Feb-26-2018

Client P.O.:

6019 02/26/2018 08:01 TOWN OF DUCK LAKE - WATER PLANT *WATER*
6020 02/26/2018 08:21 TOWN OF DUCK LAKE - WELL BUILDING PW3 *WATER*
6021 02/26/2018 08:25 TOWN OF DUCK LAKE - WELL BUILDING PW5 *WATER*

Analyte	Units	6019	6020	6021
Lab Section 1 (Inorganics)				
Bicarbonate	mg/L	439	459	438
Carbonate	mg/L	<1	<1	<1
Chloride	mg/L	8	4	3
Hydroxide	mg/L	<1	<1	<1
P. alkalinity	mg/L	<1	<1	<1
pH	pH units	8.17	8.21	8.21
Specific conductivity	uS/cm	679	698	642
Sum of ions	mg/L	606	635	589
Total alkalinity	mg/L	360	376	359
Total hardness	mg/L	337	353	332
Nitrate	mg/L	0.23	0.62	0.16
Fluoride	mg/L	0.08	0.10	0.10
Total dissolved solids	mg/L	390	406	372
Lab Section 2 (ICP)				
Calcium	mg/L	99	97	100
Magnesium	mg/L	22	27	20
Potassium	mg/L	1.8	2.7	1.5
Sodium	mg/L	14	13	9.6
Sulfate	mg/L	22	32	17
Aluminum	mg/L	0.0007	0.0008	0.0007
Antimony	mg/L	<0.0002	<0.0002	<0.0002
Arsenic	ug/L	0.2	0.7	0.5
Barium	mg/L	0.30	0.40	0.33
Boron	mg/L	0.02	0.02	0.02
Cadmium	mg/L	<0.00001	0.00002	0.00008
Chromium	mg/L	<0.0005	<0.0005	<0.0005
Copper	mg/L	0.047	0.0006	0.0013
Iron	mg/L	0.0010	0.45	0.20
Lead	mg/L	<0.0001	0.0007	0.0006
Manganese	mg/L	0.0098	0.98	1.35
Selenium	mg/L	<0.0001	<0.0001	0.0001



SRC Group # 2018-2077

Mar 07, 2018

Town of Duck Lake

6019	02/26/2018 08:01	TOWN OF DUCK LAKE - WATER PLANT *WATER*
6020	02/26/2018 08:21	TOWN OF DUCK LAKE - WELL BUILDING PW3 *WATER*
6021	02/26/2018 08:25	TOWN OF DUCK LAKE - WELL BUILDING PW5 *WATER*

Analyte	Units	6019	6020	6021
Lab Section 2 (ICP)				
Silver	mg/L	<0.00005	<0.00005	<0.00005
Uranium	ug/L	0.5	0.5	0.5
Zinc	mg/L	0.0011	0.0018	0.0012
Lab Section 4 (Radiochemistry)				
Gross alpha	Bq/L	<0.31	<0.34	<0.32
Gross beta	Bq/L	<0.16	0.43±0.08	<0.17

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