

Town of Unity

2018

**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 (*community name*) water quality and sample submission compliance record for the (*inset applicable time period here*) time period. This report was completed on (*insert date here*) (*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			

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	0.53 - 2.18	0.10 - 1.53	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	0.26 - 2.39	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	1.00	0.06 - 0.50	0	0.50	730	730

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 (*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*).



Saskatchewan
Ministry of
Environment



Environmental Services Analysis Report - Final

Invoice Number: 1106458	Collected Date: 07-Jan-2019 11:10 AM	
Sample Location: Water Plant	Received: 08-Jan-2019 10:33 AM	
Collected by: Jake Senger	Reported: 11-Jan-2019 11:36 AM	Permit: 2542
Station #: SK05GC0011	Water Source: Distributed	UNITY DIST.SYSTEM
Submitted By:		
UNITY TOWN OF	Invoice:	
BOX 1030	UNITY TOWN OF	
UNITY, SK	BOX 1030	
S0K 4L0	UNITY, SK	
	S0K 4L0	

Analysis	Result	Unit	Sask Guideline	Test Comment	Fee
General Chemistry/Water Quality Panel					104.00
Conductivity	2082	µS/cm	< 2300		
pH	7.6	pH Units	6.5 - 9.0		
Total Alkalinity	527	mg/L CaCO3	< 500		
Phenol Alkalinity	0.00	mg/L CaCO3	No Guideline		
Bicarbonate	643	mg/L	No Guideline		
Carbonate	0	mg/L	No Guideline		
Hydroxide	0	mg/L	No Guideline		
Chloride Dissolved	29.2	mg/L	< 250		
Fluoride Dissolved	0.21	mg/L	< 1.5		
Nitrate Dissolved	<0.2	mg/L	< 45		
Sulfate Dissolved	579.2	mg/L	< 500		
Total Hardness (Calculated)	263	mg/L CaCO3	< 800		
Total Dissolved Solids	1753	mg/L	< 1500		
Iron	<0.1	mg/L	< 0.3		
Manganese	0.01	mg/L	< 0.05		
Calcium	69	mg/L	No Guideline		
Magnesium	22	mg/L	< 200		
Potassium	5	mg/L	No Guideline		
Sodium	405	mg/L	< 300		