

## Drinking Water Quality and Compliance 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 Town of Whitewood water quality and sample submission compliance record for the 2018 time period. This report was completed on May 24, 2019. Readers should refer to Water Security Agency's Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 202 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 Background Bacteria	0 Organisms/100 mL	52	52	0
	Less than 200/100 mL	52	52	0

#### 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	0.41-0.80	0.33-0.75	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	0.31-0.76	365	0

#### Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	<1.0	.06-.14	0	0.14	365	365

#### 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 Jan 15, 2018. Sample results indicated that the provincial drinking water quality standards were not exceeded. (or) Samples exceeded provincial water quality standards for the following parameters:

Parameter	Limit MAC(mg/L)	Limit IMAC (mg/L)	Sample Result(s)	# Samples Exceeding Limit	
Arsenic	0.025		2-0	_____	* Results expressed as average values for communities or waterworks that fluoridate drinking
Barium	<1.000		0.80	_____	
Boron		5.0	0.1	_____	
Cadmium	0.005		<0.15	_____	
Chromium	<0.50		<0.19	_____	

Fluoride (avg*)	1.5	<0.05	_____	water supplies or those with elevated concentrations of fluoride or nitrates.
Lead	0.01	<0.07	_____	
Nitrate (avg.*)	45.0	0.4	_____	
Selenium	<10	<1.13	_____	
Uranium	<.20	0.11	_____	

**General Chemical**

Parameter	Aesthetic Objectives*(mg/L)	Sample Results (average)	#Samples Required	#Samples Submitted
Alkalinity	500	77.7 mg/l		
Bicarbonate	No Objective	95 mg/l		
Calcium	No Objective	2 mg/l		
Carbonate	No Objective	0 mg/l		
Chloride	250	1.0 mg/l		
Conductivity	No Objective	149 us/cm		
Hardness	800	9mg/OaCo3		
Magnesium	200	<1 mg/l		
PH	No Objective	7.6 ph/units		
Sodium	300	3.1 mg/l		
Sulphate	500	2.0 mg/l		
Total dissolved Solids	1500	133mg/l		

More information on water quality and sample submission performance may be obtained from [www.saskh20.ca](http://www.saskh20.ca) or

Town of Whitewood  
 Box 129  
 Whitewood, Sask.  
 S0G 5C0  
 735-2210  
 735-2262 (fax)