

# TOWN OF BIGGAR, SASKATCHEWAN

## Drinking Water Quality and Compliance Annual Notice to Consumers 2023

### Introduction

Saskatchewan 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 Biggar water quality and sample submission compliance record for the January 1<sup>st</sup> to December 31<sup>st</sup>, 2023 time period. This report was completed on January 06, 2024. Readers should refer to Saskatchewan Environment's "Municipal Drinking Water Quality Monitoring Guidelines, November 2002, 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/water-eau/drink-potab/index\\_e.html](http://www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/index_e.html)

### Water Quality Standards Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (%)
Total Coliform Bacteria	0 Organisms/100mL	52	52	0%
Background Bacteria	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	Free Chlorine Residual Range	Total Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine Residual	0.1mg/L free OR 0.5 mg/L total	0.30 – 1.32 mg/L	0.52 – 1.69 mg/L	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	0.48-1.49 mg/L	365	0

**Turbidity – From Water Treatment Plant Records – Distribution System / WTP**

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity	# Tests Required	# Tests Performed
Turbidity - Distribution System (Samples)	5.0 NTU/Objective	0.05 – 0.75 NTU	0	0.75 NTU	52	52
Turbidity - Water Treatment Plant	1.0 NTU/Max	0.02 – 0.95 NTU	0	0.95 NTU	730	730

**Chemical – Health Category**

All waterworks serving less than 5000 persons are required to submit water samples for Saskatchewan Environment’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 October 18, 2023. 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) (mg/L)	# Samples Exceeding Limit
Arsenic	0.010		0.0006	NIL
Barium	1.0		0.015	NIL
Boron	5.0		0.11	NIL
Cadmium	0.005		<0.00001	NIL
Chromium	0.05		<0.0005	NIL
Fluoride	1.5		0.21	NIL
Lead	0.01		0.0002	NIL
Nitrate	45.0		<0.04	NIL
Selenium	0.01		<0.0001	NIL
Uranium	0.02		0.0058	NIL

\* Results expressed as average values for communities or waterworks which fluoridate drinking water supplies or those with elevated concentrations of fluoride or nitrates.

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

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