

## Drinking Water Quality and Compliance

### Annual Notice to Consumers

Saskatchewan Environment (SE) 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 Indian Head water quality and sample submission compliance record for the 2017 time period. This report was completed on April 11, 2018. Readers should refer to SE's "Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202" for more information on minimum sample submission requirements. 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/hecs-sesc/water/dwgsup.htm>.

#### Water Quality Standards

##### Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (Percentage)
Total Coliform and Background Bacteria	0 Organisms/100 mg/L Less than 200/100 ml	<u>52</u>	<u>52</u>	<u>0</u>

##### Water Disinfection

##### **Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples**

Parameter	Minimum Limit (mg/L)	Free Chlorine Residual Range	Total Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (Percentage)
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	0.1 mg/L free OR <u>0.5 mg/L total</u>	<u>0.52mg/l-1.42mg/l</u>	<u>0.80mg/l-1.81mg/l</u>	<u>52</u>	<u>100%</u>	

##### 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	<u>at least 0.1</u>	<u>0.43mg/l-2.57mg/l</u>	<u>365</u>	<u>0</u>

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	<u>1.0 NTU</u>	<u>0.03-0.43 NTU</u>	<u>0</u>	<u>1.0</u>	<u>365</u>	<u>365</u>

**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 General Chemical analysis was submitted on April 3, 2018. Sample results indicated that the provincial drinking water quality standards were not exceeded.

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

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Indian Head, SK S0G 2K0  
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Cameron Thauberger  
Town Administrator  
Town of Indian Head  
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