

Drinking Water Quality and Compliance Report
2016 Annual Notice to Consumers

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 Stoughton's water quality and sample submission compliance record for the January 1st 2016 – December 31st 2016 time period. This report was completed on January 1st, 2017. Readers should refer to Saskatchewan Environment's 'Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EBP 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>

Water Quality Standards
Bacteriological Quality

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

Water Disinfection – Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

<u>Parameter</u>	<u>Minimum Limit (mg/L)</u>	<u>Free Chlorine Residual Range</u>	<u>Total Chlorine Residual Range</u>	<u># Tests Submitted</u>	<u># Inadequate Chlorine</u>	<u># Adequate Chlorine (%)</u>
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	0.39– 1.19 mg/l	0.76 – 1.64 mg/l	52	0	52 (100%)

Turbidity – From Water Treatment Plant Records

<u>Parameter</u>	<u>Limit (NTU)</u>	<u>Test Level Range</u>	<u># Tests Not Meeting Requirements</u>	<u>Max. Turbidity (NTU)</u>	<u># Tests Required</u>	<u># Tests Performed</u>
	1.0	0.08 – 0.63	0	0.63	365	365

Turbidity is a measure of water treatment efficiency. Turbidity measures the "clarity" of the drinking water and is generally reported in Nephelometric Turbidity Units (NTU). All waterworks are required to monitor turbidity at the water treatment plant. The frequency of measurement varies from daily for small systems to continuous for larger waterworks.

General Chemical

All waterworks serving less than 5000 persons are required to submit one water sample for Saskatchewan Environment's 'Chemical Health' category once every two years. This 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 January 11, 2016. 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
Town of Stoughton
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Stoughton, Sask.
S0G 4T0