Drinking Water Quality and Compliance

Annual Notice to Consumers
Town of Hepburn

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 Hepburn's* quality and sample submission compliance record for the 2021 time period. This report was completed on March 31, 2022.

Readers should refer to Water Security Agency'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/pubs/water-eau/index_e.html .

Water Quality Standards

Bacteriological Quality

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

Water Disinfection

Total 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	0.73-1.87	n/a*	52	52	100%

** Because the water from the Hepburn distribution is chloraminated, free chlorine is not measured.* Chloramination *is used as an alternative to chlorination*; it *is the process of adding chloramine to drinking water to disinfect it. Chloramines are a group of chemical compounds that contain chlorine and ammonia and provide longer lasting disinfectant than chlorine on it's own and are commonly used in pipline systems*

Total Chlorine Residual for Water Entering Distribution System from Waterworks Records

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Total chlorine Residual	at least 0.5	1.24 - 2.20	363	0

A minimum of 0.5 milligrams per liter (mg/L) total chlorine residual is required for water entering the distribution system. Tests are performed on a daily basis by the waterworks operator and are recorded in operation records. This data includes the number of total chlorine residual tests performed, the overall range of total chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.5 mg/L total chlorine residual.
Two daily tests where missed July 17 and Nov 28.

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	0.7 – 0.25	0	0.25	365	363*

**Two daily tests where missed July 17 and Nov 28*

Chemical – Trihalomethanes (THMs)and Haloacetic Acids (HAAs)

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0.035025	4 (quarterly)	4
Haloacetic Acid	0.08	0.0228	4 (quarterly)	4

Note: Only water supplies derived from surface water or groundwater under the influence of surface water are required to monitor for THMs and HAAs.

For more information on water quality and sample submission contact:

Town of Hepburn
PO box 271
Hepburn, SK. S0K 1Z0

T ***306 947-2170 (town office)***
E **info@hepburn.ca**
waterworks@hepburn.ca