Water Security Agency

Drinking Water Quality and Compliance
Annual Notice to Consumers
Town of Eatonia

Introduction

The Water Security Agency 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 the Permit to Operate a waterworks. The following is a summary of the **Town of Eatonia** water quality and sample submission compliance record for the 2020 calendar year time period. This report was completed on April 13, 2021. Readers should refer to Water Security Agency's Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502 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 Submitted (%)
Total Coliform	0 Organisms/100 mL	46	46	0
E. coli	0 Organisms/100 mL	46	46	0
Background Bacteria	Less than 200/100 mL			

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	0.42 – 1.51 mg/L	0.17 – 1.01 mg/L	46	46	46 (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	0.15 – 1.30 mg/L	366	0

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	1.0	0.13 – 0.39	0	0.39	366	366

Water Security Agency

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 November 25, 2020. 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)	# Samples Exceeding Limit	
Arsenic	0.010		0.0006	0	* Results expressed
Barium	1.0		0.0181	0	as average values
Boron		5.0	0.10	0	for communities or
Cadmium	0.005		0.00015	0	waterworks that
Chromium	0.05		0.00019	0	fluoridate drinking
Fluoride (avg*)	1.5		0.12	0	water supplies or
Lead	0.01		0.0002	0	those with elevated
Nitrate (avg.*)	45.0		2.1	0	concentrations of
Selenium	0.01		0.0024	0	fluoride or nitrates.
Uranium	0.02		0.0082	0	

Chemical – Trihalomethanes (THMs)

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0.04663	4 (1 every 3 months)	4
Halo Acetic Acids	0.80	0.01125	4 (1 every 3 months)	4

General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical once every 2 years.

The last sample for General Chemical analysis was submitted on March 25, 2020.

Parameter	Aesthetic Objectives * (mg/L)	Sample Results (average)	# Samples Required	# Samples Submitted
Alkalinity	500	271	1	1
Bicarbonate	No Objective	331	1	1
Calcium	No Objective	332	1	1
Carbonate	No Objective	0	1	1
Chloride	250	32.9	1	1
Conductivity	No Objective	1667	1	1
Hardness	800	959	1	1
Magnesium	200	105	1	1
PH	No Objective	7.5	1	1
Sodium	300	45	1	1
Sulphate	500	689.2	1	1
Total dissolved Solids	1500	1426	1	1

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

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