

Drinking Water Quality and Compliance Annual Notice to Consumers

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 Weyburn Utility Board's 4 Rural Water Pipelines water quality and sample submission compliance record for the January – December 2018 time period. This report was completed on June 1, 2019 (*must be completed before June 30 each year on a calendar year based reporting frequency*). 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-smrt/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 and Background Bacteria	0 Organisms/100 mL Less than 200/100 mL	2 per month per line	East - 26 West - 26 North - 26 South - 26	0 0 0 0

Water Disinfection – Chlorine Residual in Distribution System for Bacteriological Samples

East Line

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	.86 – 2.2	.19 – 2.2	24	26	100

West Line

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	.74 - 1.97	.17 - 1.70	24	26	100

North Line

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	.88 - 2.36	.17 - 1.20	24	26	100

South Line

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	1.09 - 2.2	.23 – 2.2	24	26	100



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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	0.05-5.20	1400	176

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.

Chemical – Trihalomethanes (THMs)

Location	# Samples Required	# Samples Submitted	Limit (µ/L)	Result (average)
East Line	4 (1 every 3 months)	4	(<100)	122.25
West Line	4 (1 every 3 months)	4	(<100)	145.00
North Line	4 (1 every 3 months)	4	(<100)	130.75
South Line	4 (1 every 3 months)	4	(<100)	124.65

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

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