

Drinking Water Quality and Compliance Village of St. Louis - 2018 Annual Notice to Consumers

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 a Permit to Operate a Waterworks. The following is a summary of the Village of St. Louis water quality and sample submission compliance record for the 2018 calendar year. This report was completed on January 2, 2019.

Subscribers should refer to the 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.

Water Quality Standards

Bacteriological Quantity

Water Quality Standards	Limit	Samples Required	Samples Submitted	Positive
Total Coliform	0/100 ml	52	52	1
Background Bacteria	200 NO/100 ml	52	52	1

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

Minimum Parameter Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	.58 mg/l - 1.41 mg/l	.34 mg/l - 1.31 mg/l	52	52	100%

Water Disinfection –Chlorine Residual in Distribution System for Test Results Performed at Village Water Plant

Minimum Parameter Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Performed	# Adequate Chlorine (%)
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	.80 mg/l - 3.40 mg/l	.70 mg/l - 2.36 mg/l	365	365	100%

Turbidity - From Submitted Bacteriological Samples

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed (with Sask Water)
Turbidity	0.3 NTU	0.09 – 0.19 NTU	0	0.19 NTU	52	52

Turbidity - From Village Water Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed (with Sask Water)
Turbidity	0.3 NTU	0.07 – 1.64 NTU	5	1.64 NTU	365	365

(5 days of high turbidity after cleaning reservoirs, Village was on a Precautionary Drinking Water Advisory)

Chemical - Health Category

Samples are submitted by Sask Water, Wakaw – Humboldt Pipeline. These test for arsenic, barium, boron, cadmium, chromium, fluoride, lead, manganese, selenium and uranium. Sample results for 2018 indicated that the provincial drinking water quality standards were not exceeded.

<u>Parameter</u>	<u>Limit</u> <u>MAC(mg/L)</u>	<u>Limit</u> <u>IMAC(mg/L)</u>	<u>Sample</u> <u>Result(s)</u>	<u># Samples</u> <u>Exceeding Limit</u>
Arsenic	0.025		0.0002 mg/L	0
Barium	1.0		0.077 mg/L	0
Boron		5.0 mg/L	0.03 mg/L	0
Cadmium	0.005		0.00001 mg/L	0
Chromium	0.05		0.0005 mg/L	0
Fluoride	1.5		0.32 mg/L	0
Lead	0.01		0.001 mg/L	0
Manganese	0.5		0.0005 mg/L	0
Selenium	0.01		0.0004 mg/L	0
Uranium	0.02		0.0006 mg/L	0

Chemical – Trihalomethanes (THMs)

<u>Parameter</u>	<u>THMs</u> <u>Limit (ug/L)</u>	<u>Sample</u> <u>Result (average)</u>	<u># Samples</u> <u>Required</u>	<u># Samples</u> <u>Submitted</u>
Trihalomethanes	100 ug/l	59.0 ug/l	4	4

Chemical – Haloacetic Acids (HAAs)

<u>Parameter</u>	<u>HAAs</u> <u>Limit (ug/L)</u>	<u>Sample</u> <u>Result (average)</u>	<u># Samples</u> <u>Required</u>	<u># Samples</u> <u>Submitted</u>
Haloacetic Acids	80 ug/l			
Monochloroacetic Acid		< 5 ug/l	4	4
Monobromoacetic Acid		< 2 ug/l	4	4
Dichloroacetic Acid		25 ug/l	4	4
Trichloroacetic Acid		26 ug/l	4	4
Dibromoacetic Acid		< 1 ug/l	4	4

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

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