

Drinking Water Quality and Compliance

Village of St. Louis - 2020 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 2020 calendar year. This report was completed on January 4, 2021.

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.

<u>Water Quality Standards</u>	<u>Limit</u>	<u>Samples Required</u>	<u>Samples Submitted</u>	<u>Positive</u>
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Bacteriological Quantity

Total Coliform	0/100 ml	52	52	0
Background Bacteria	200 NO/100 ml	52	52	0

(Week 45 sample arrived late to Lab due to winter storm and postal delivery delays.)

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

<u>Minimum Parameter Limit</u>	<u>Total Chlorine Residual Range</u>	<u>Free Chlorine Residual Range</u>	<u># Tests Required</u>	<u># Tests Submitted</u>	<u># Adequate Chlorine (%)</u>
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	.42 mg/l - 1.24 mg/l	.20 mg/l - 1.10 mg/l	52	52	99%

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

<u>Minimum Parameter Limit</u>	<u>Total Chlorine Residual Range</u>	<u>Free Chlorine Residual Range</u>	<u># Tests Required</u>	<u># Tests Performed</u>	<u># Adequate Chlorine (%)</u>
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	0.92 mg/l – 1.70 mg/l	.80 mg/l - 1.35 mg/l	366	366	100%

Turbidity - From Submitted Bacteriological Samples

<u>Parameter</u>	<u>Limit (NTU)</u>	<u>Test Level Range</u>	<u># Tests Not Meeting Requirements</u>	<u>Maximum Turbidity (NTU)</u>	<u># Tests Required</u>	<u># Tests Performed (with Sask Water)</u>
Turbidity	0.3 NTU	0.08 – 0.18 NTU	0	0.18 NTU	52	52

Turbidity - From Village Water Plant Records

<u>Parameter</u>	<u>Limit (NTU)</u>	<u>Test Level Range</u>	<u># Tests Not Meeting Requirements</u>	<u>Maximum Turbidity (NTU)</u>	<u># Tests Required</u>	<u># Tests Performed (with Sask Water)</u>
Turbidity	0.3 NTU	0.05 – 0.18 NTU	0	0.18 NTU	366	366

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 2020 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		0.08 mg/L	0
Boron		5.0 mg/L	0.02 mg/L	0
Cadmium	0.005		0.00001 mg/L	0
Chromium	0.05		0.0005 mg/L	0
Fluoride	1.5		0.49 mg/L	0
Lead	0.01		0.002 mg/L	0
Manganese	0.5		0.0005 mg/L	0
Selenium	0.01		0.0004 mg/L	0
Uranium	0.02		0.0003 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	55.5 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	47 ug/l	4	4
Monochloroacetic Acid		< 10 ug/l	4	4
Monobromoacetic Acid		< 2 ug/l	4	4
Dichloroacetic Acid		21 ug/l	4	4
Trichloroacetic Acid		24 ug/l	4	4
Dibromoacetic Acid		< 3 ug/l	4	4

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

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