



**Drinking Water Quality and Compliance**  
**SaskWater – Saskatoon Non-Potable Pipeline(s)**  
**Station Number – SK05HG0399**  
**2019 Notification to Consumers**

The Water Security Agency (WSA) 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 SaskWater – Saskatoon Non-Potable Pipeline(s) water quality and sample submission compliance record for the January 1, 2019 to December 31, 2019 time period. This report was completed on February 12, 2020. Readers should refer to the WSA's Municipal Drinking Water Quality Monitoring Guidelines, October 2012, EPB 202 for more information on minimum sample submission requirements and types of samples. Permit requirements for a specific waterworks may require more sampling than outlined in the Agency's monitoring guidelines. If consumers need to know more about drinking water in Saskatchewan, more detailed information is available from: <http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index-eng.php>.

**BACTERIOLOGICAL QUALITY**

**Sampling from Distribution System**

Parameter	Limit	Regular Samples Required	Regular Samples Submitted	# Of Positive Regular Submitted
Total Coliform	0 Organisms/100mL	24	27	27
E. Coli	0 Organisms/100m/L	24	27	23
Background Bacteria	Less than 200/100mL	24	27	27

Analysis is performed on a single sample for all parameters mentioned above. All waterworks are required to submit samples for bacteriological water quality; the frequency of monitoring depends on the population served by the waterworks. Additional testing was done for informational purposes.

**TURBIDITY**

**Turbidity in the Distribution System – From Test Results Submitted with Bacteriological Samples**

Parameter	Limit (NTU)	Range (NTU)	Average (NTU)	# Tests Required	# Tests Performed	# Exceeding Limit
Turbidity	No Standard	1.29 – 20.3	3.95	24	27	0

Turbidity is a measure of water treatment efficiency. Turbidity measures the “clarity” of the drinking water and is generally reported in Nephelometric Turbidity Units (NTU). The turbidity is tested at the same frequency as the bacteriological testing with a bench testing instrument. Additional testing was done for informational purposes.

## **CHEMICAL – HEALTH**

The Saskatoon Non-Potable West Pipeline is required to submit water samples for the WSA's Chemical Health category once every second year. 2019 is not a required sampling year. Additional testing was done for informational purposes.

<b>Parameter</b>	<b>MAC (mg/L)</b>	<b>IMAC (mg/L)</b>	<b>AO* (mg/L)</b>	<b>Sample Results (mg/L)</b>	<b># of Samples Required</b>	<b># of Samples Submitted</b>
Aluminum	No Objective			0.066	0	2
Antimony	0.006			<0.0002	0	2
Arsenic	0.010			0.0008	0	2
Barium	1.0			0.082	0	2
Boron		5.0		0.03	0	2
Cadmium	0.005			0.00002	0	2
Chromium	0.05			<0.0005	0	2
Copper			1.0	0.011	0	2
Iron			0.3	0.086	0	2
Lead	0.01			0.0004	0	2
Manganese			0.05	0.020	0	2
Selenium	0.01			0.0004	0	2
Silver	No Objective			<0.00005	0	2
Uranium	0.02			0.0011	0	2
Zinc			5	0.013	0	2

MAC – Maximum Acceptable Concentrations

AO – Aesthetic Objective

IMAC – Interim Maximum Acceptable Concentrations

## **CHEMICAL – GENERAL**

The Saskatoon Non-Potable West Pipeline is required to submit water samples for the WSA's General Chemical category once per three months every second year. 2019 is not a required sampling year. Additional testing was done for informational purposes.

<b>Parameter</b>	<b>MAC</b>	<b>AO *</b>	<b>Sample Results (mg/L)</b>	<b># of Samples Required</b>	<b># of Samples Submitted</b>
Total Alkalinity (mg/L)		500	148	0	3
Bicarbonate (mg/L)	No Objective		177	0	3
Calcium (mg/L)	No Objective		44	0	3
Carbonate (mg/L)	No Objective		<3	0	3
Chloride (mg/L)		250	13	0	3
Fluoride (mg/L)	1.5		0.17	0	3
Total Hardness (mg/L)		800	181	0	3
Hydroxide (mg/L)	No Objective		<1	0	3
Magnesium (mg/L)		200	17	0	3
Nitrate (mg/L)	45		0.9	0	3
pH (pH units)		6.5 - 9.0	8.26	0	3
Potassium (mg/L)	No Objective		3.7	0	3
Sodium (mg/L)		300	26	0	3
Specific Conductivity (µs/cm)	No Objective		455	0	3
Sulphate (mg/L)		500	71	0	3
Sum of Ions	No Objective		355	0	3
Total Dissolved Solids (mg/L)		1500	260	0	3

MAC – Maximum Acceptable Concentration

AO – Aesthetic Objective

\*Objectives apply to certain characteristics of or substances found in water for human use. The presence of these substances will affect the acceptance of water by consumers and/or interfere with the practice of supplying good quality water. Compliance with drinking water aesthetic objectives is not mandatory as these objectives are in the range where they do not constitute a health hazards.

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

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