



**Drinking Water Quality and Compliance
for the TOWN OF HANLEY
2016 Annual Notice to Consumers**

Introduction

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 Hanley water quality and sample submission compliance record for the January 1, 2016 to December 31, 2016 time period. This report was completed on February 28, 2017. Readers should refer to the 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 Agency'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 and Background Bacteria	0 Organisms/100 mL Less than 200/100 mL	52	53	0 100%

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	0.83 – 1.90	not required	52	53	100%

Water Disinfection - Total 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
Total Chlorine Residual	at least 0.5	1.13 – 1.83	365	0

A minimum of 0.5 milligrams per litre (mg/L) total 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 total chlorine residual tests performed, the overall range of total chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.5 mg/L total chlorine residual. Since going on Saskatoon water, which is chloraminated water (mixture of hypochlor and ammonia sulphate), we rely on Total chlorine levels in the water to determine adequate disinfection of our water supply. This is why we have included Total chlorine numbers in place of Free chlorine numbers.

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	N/A	0.13 – 0.28	0	0.28	365	365

Chemical – Trihalomethanes (THMs)

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0.040375	4 (1 every 3 months)	4

Note: Only water supplies derived from surface water or groundwater under the influence of surface water are required to monitor for THMs. Waterworks using groundwater sources beyond the influence of surface water do not need to report THMs since sampling/analysis will not likely have been performed.

Chemical – Halo Acetic Acids (HAAs)

Parameter	HAAs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Halo Acetic Acids	0.080	0.02285	2 (1 every 6 months)	2

Chemical – Health Category

All waterworks serving less than 5000 persons are required to submit water samples for WSA'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. Since Hanley gets their water from the Saskatoon Water Treatment Plant, these tests were performed by the City of Saskatoon.

The City of Saskatoon does their Chemical Health analysis yearly. Sample results can be reviewed on the Government of Saskatchewan H2O website by going to this site:

www.saskh2o.ca

Click on 'My Drinking Water',
Go to Select Waterworks,
Choose Saskatoon Waterworks, and finally;
Click on Current Sampling Requirements.

General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for WSA's General Chemical category once every two years if a ground water source and once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO₃), magnesium, sodium, sulphate and total dissolved solids. Since Hanley gets their water from the Saskatoon Water Treatment Plant, the required tests were performed by the City of Saskatoon.

Sample results can be reviewed on the Government of Saskatchewan H2O website by going to this site:

www.saskh2o.ca

Click on 'My Drinking Water',
Go to Select Waterworks,
Choose Saskatoon Waterworks, and finally;
Click on Current Sampling Requirements.

*Objectives apply to certain characteristics of substances found in water for human consumption or hygienic 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 hazard. The aesthetic objectives for several parameters (including hardness as CaCO₃, magnesium, sodium and total dissolved solids) consider regional differences in drinking water sources and quality.

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

www.saskh2o.ca

Click on 'My Drinking Water',
Go to Select Waterworks,
Choose Hanley Waterworks, and finally;
Click on Current Sampling Requirements.

Or by contacting The Hanley Town Office at:

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306-544-2223**