

2017 Drinking Water Quality Data

Water quality data presented below has been compiled from the results of laboratory testing. Water samples were taken from the Buffalo Pound Water Treatment Plant and comprehensive water quality analyses for all parameters were conducted in the plant laboratory.

Water quality test results for bacteriological, chlorine residual and turbidity were given in the 2017 Drinking Water Quality and Compliance Report.

Parameter	Testing Result Annual Average (mg/L)	Saskatchewan Environment Water Quality Objective (mg/L)
Sodium (Na)	96	<200 (AO)
Sulphate (SO ₄)	277	<500 (AO)
Total Dissolved Solids (TDS)	625	1500
Manganese (Mn)	<DL	0.05 (AO)
Nitrate (NO ₃)	0.06	45
Potassium (K)	7.7	No Standard
Hardness (CaCO ₃)	281	800
Iron (Fe)	<DL	0.3 (IMAC)
Magnesium (Mg)	36	200
Calcium (Ca)	54	No Standard
Chloride (Cl)	43.4	<250 (AO)
Fluoride (F)	0.14	1.5
Alkalinity (total)	153	500

Notes:

1. Values are given in milligrams per litre (mg/l) which is equivalent to parts per million (ppm)
2. No fluoride was added to Regina water. Fluoride measured is naturally occurring.
3. "<" means "less than"
4. "DL" means "Detection Limit"
5. "AO" means "Aesthetic Objective"
6. "IMAC" means "Interim Maximum Allowable Concentration"

For more information, please contact the City of Regina at 306-777-7000 or visit: www.regina.ca

2017 Drinking Water Quality and Compliance Report Annual Notice to Customers

Introduction

Saskatchewan 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 water works in submitting samples as required by the Minister's Order or Permit to Operate a Waterworks

The following is a summary of the City of Regina water quality and sample submission compliance records for the period January 1, 2017 - December 31, 2017. This report was completed on April 3, 2018.

Readers should refer to Saskatchewan Water Security Agency document: [Saskatchewan Drinking Water Standards and Objectives](#) for more information on minimum sample submission requirements and the meaning of each type of sample.

<http://www.saskh2o.ca/pdf/epb507.pdf>

Permit requirements for a specific waterworks may require more sampling than outlined in the Authority's monitoring guidelines. If consumers need more information on the nature and significance of specific water tests, for example, "what is the significance of sulphate?"

http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html

Water Quality Standards

I. Bacteriological Quality

Parameter	Limit	Regular Samples Required	Total Samples Tested	No. of Samples Positive of Bacteria
Total Coliform and Background Bacteria	Zero Organisms/100ml Less than 200/100ml	930	931	0

II. Water Disinfection - Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (mg/l)	Test Level Range (mg/l)	No. of Tests Required	No. of Tests Performed	No. of Samples Not Meeting Regs.
Chlorine Residual	0.1 mg/L Free	0.10 - 1.03	930	931	0
	0.5 mg/l Total	0.14 - 1.20			

III. Turbidity

Parameter	Limit (NTU)	Test Level Range	No. of Tests Performed	No. of Tests Required	No. of Tests Not Meeting Requirements
Turbidity	1.0	0.09 – 2.61	931	930	1

(NTU) Nephelometric Turbidity Unit - a unit of measurement used to indicate the clarity of drinking water

IV. Chemical - Trihalomethanes

Parameter	Limit (mg/l)	Sample Result (Average)	No. of Samples Required	No. of Samples Taken
Trihalomethanes	0.1	0.073 mg/l	8	8

Contact Information

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

City of Regina
Tel: 306-777-7000
Web: www.regina.ca

2017 Additional Drinking Water Data

Water quality parameters are tested at both the City of Regina and the Buffalo Pound Water Treatment Plant. The tested parameters include all those required by the Water Security Agency. There are additional parameters within Health Canada guidelines which are not typically tested in this region. The City of Regina has tested these additional parameters with the results given below.

Parameter	Testing Results (mg/L)	Health Canada Guideline Water Quality Objective (mg/L)
Antimony	<0.0006	0.006
Asbestos	<0.16	NR
Azinphoz-methyl	<0.002	0.02
Calcium	39	NR
Chloramines	0.22	3
Chlorite	<0.1	1
Diquat	<0.007	0.07
Diuron	<0.01	0.15
Formaldehyde	<10	NR
Metribuzin	<0.005	0.08
Nitrotriacetic acid (NTA)	<0.05	0.4
Nitrite	<0.033	3
N-Nitroso dimethylamine	<0.000002	0.00004
Paraquat	<0.001	0.01
Cesium-137 (Bq/L)	<1	10
Iodine-131 (Bq/L)	<1	6
Lead-210 (Bq/L)	<1.0	0.2
Radium-226 (Bq/L)	<1.0	0.5
Strontium-90 (Bq/L)	<0.10	5
Tritium (Bq/L)	<15	7000

Notes:

1. Values are given in milligrams per liter (mg/l) which is equivalent to parts per million (ppm), unless otherwise noted.
2. NR means "None required"