

**Stony Beach Drinking Water Quality and Compliance
Annual Notice to Consumers**

Introduction

Saskatchewan Environment (SE) 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 Minister's Order or Permit to Operate a waterworks. The following is a summary of the Stony Beach water quality and sample submission compliance record for the year 2012 time period. This report was completed on March 7, 2013 (must be completed before June 30 each year on a calendar year based reporting frequency). Readers should refer to SE'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. 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/hecs-sesc/water/dwgsup.htm>.

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 Less than 200/100ml	24	25	0(0%)

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	.06 - .91	.03 - .58mg/L	24	25	56% Free 32% Total

Water Disinfection – Free Chlorine Residual for Water Entering Distribution System from Waterworks Records: From Water Treatment Plant Records (Home of Jim French)

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Free Chlorine Residual	at least 0.1	.03 - .77mg/L	366	164(45%)

A minimum of 0.1 milligrams per litre (mg/L) free 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 free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.1 mg/L free chlorine residual.

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	#Tests Performed
Turbidity	----	----	----	----	----	----

Chemical – Health Category

All waterworks serving less than 5000 persons are required to submit water samples for SE'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. Done at Buffalo Pound Water Treatment Plant.

Chemical – Trihalomethanes (THMs)

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1 or 100 ug/L	----	----	----

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. *Effective April 1, 2009 - the requirement for sampling Trihalomethane has been deleted from the Permit to Operate a Waterworks.

General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for SE'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. Done at Buffalo Pound Water Treatment Plant.

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

R.M. of Pense No. 160
Box 190
Pense, Saskatchewan
S0G 3W0
Phone: (306)345-2303
Fax: (306)345-2583
Email: rm160@sasktel.net
Website: www.pense160.ca