

**Drinking Water Quality and Compliance
Highway 41 Water Utility
2022 - Annual Notice to Consumers**

Introduction

The Water Security Agency and the Ministry of Environment 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 Rm of Aberdeen, RM of Grant, RM of Blucher, River's edge, Strawberry Hills, water quality and sample submission compliance record for the Jan 1 / 2022 – Dec 31 / 2022 time period. This report was completed on March 13 / 2023. Readers should refer to Water Security Agency's [Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502](#) 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/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 (%)
<u>Bergheim (Phase A)</u>				
Total Coliform, E. Coli Background bacteria	0 Organisms/100 mL <200	_____	_____	_____
<u>Tower Hill (Phase B)</u>				
Total Coliform, E. Coli Background bacteria	0 Organisms/100 mL <200	_____	_____	_____
<u>Aberdeen (Phase C)</u>				
Total Coliform, E. Coli Background bacteria	0 Organisms/100 mL <200	_____	_____	_____
<u>Strawberry Hills (Phase SH)</u>				
Total Coliform, E. Coli Background bacteria	0 Organisms/100 mL <200	_____	_____	_____
<u>Manhattan (Phase MH)</u>				
Total Coliform, E. Coli Background bacteria	0 Organisms/100 mL <200	_____	_____	_____



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

Parameter	Minimum Limit	Total Chlorine Low	Total Chlorine High	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
<u>Bergheim (Phase A)</u>						
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total					
<u>Tower Hill (Phase B)</u>						
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total					
<u>Aberdeen (Phase C)</u>						
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total					
<u>Strawberry Hills (Phase SH)</u>						
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total					
<u>Manhattan (Phase MH)</u>						
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total					

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 Required	#Tests Performed	# Tests Not Meeting Requirements
<u>Bergheim (Phase A)</u>					
Total Chlorine Residual	at least 0.5 mg/L				
<u>Tower Hill (Phase B)</u>					
Total Chlorine Residual	at least 0.5 mg/L				
<u>Aberdeen (Phase C)</u>					
Total Chlorine Residual	at least 0.5 mg/L				
<u>Strawberry Hills (Phase SH)</u>					
Total Chlorine Residual	at least 0.5 mg/L				

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. **Water is supplied by the City of Saskatoon and is chloraminated. Highway 41 Water Utility operates on a total chlorine residual only.**

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
<u>Bergheim (Phase A)</u>						
Turbidity	N/A	_____	_____	_____	_____	_____
<u>Tower Hill (Phase B)</u>						
Turbidity	N/A	_____	_____	_____	_____	_____
<u>Aberdeen (Phase C)</u>						
Turbidity	N/A	_____	_____	_____	_____	_____
<u>Strawberry Hills (Phase SH)</u>						
Turbidity	N/A	_____	_____	_____	_____	_____

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

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www.41water.com



**Saskatchewan
Ministry of
Environment**

