

Drinking Water Quality and Compliance For VILLAGE OF MUENSTER 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 Village of Muenster water quality and sample submission compliance record for the January 1, 2016 to December 31, 2016 time period. This report was completed on February 8, 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	52	0 (0%)

Water Disinfection -

Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples							
Parameter	Minimum Limit	Total Chlorine Residual Range		# Tests	# Tests	# Adequate Chlorine (%)	
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	.50 to .88 mg/L	.30 to .70 mg/L	52	52	52(100%)	

<u>Water Disinfection - Free Chlorine Residual for Water Entering Distribution System from Waterworks Records-From Water Treatment Plant Records</u>

Danamata		Test Level	# Tests	# Tests Not Meeting	
Parameter	Limit (mg/L)	Range	Performed	Requirements	
Free Chlorine Residual	at least 0.1	.28 to .80 ma/L	365	0	

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 – F	rom Water	<u> Freatment Plant F</u>	Records				
Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed	
Turbidity	1.0	.00 to .27	0 ·	.27	365	346*	

^{*}Turbidity testing equipment sent away for servicing.

Chemical - Haio Acetic Acids (HAAs)

Parameter	HAAs	Sample	# Samples	# Samples
	Limit (mg/L)	Result (average)	Required	Submitted
Halo Acetic Acids	0.080	0.051	4 (1 every 3 months)	1*

^{*} Muenster Village's requirement for testing only began in October of 2016.

Chemical - Trihalomethanes (THMs)

Parameter	THMs	Sample	# Samples	# Samples
	Limit (mg/L)	Result (average)	Required	Submitted
Trihalomethanes	0.1	0.0647 mg/L,	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 HAAs and THMs. Waterworks using groundwater sources beyond the influence of surface water do not need to report HAAs and THMs since sampling/analysis will not likely have been performed.

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

Village of Muenster P.O. Box 98 Muenster, SK S0K 2Y0

Telephone: 306-682-2794 Fax: 306-682-4179

E-mail: muenster@sasktel.net

ANNUAL FINANCIAL OVERVIEW (2016)

Total 2016 waterworks operating revenues (R) - \$144,689

Total 2016 waterworks operating expenditures (E) - \$180,644

Total debt payments of waterworks infrastructure loans (D) - 0

Comparison of waterworks operating revenues to operating expenditures plus debt payments,

expressed as a ratio
$$(144,689)$$
 = .80 $(180,644) + (0)$

For 2016, waterworks operating revenues covered 80 percent of the waterworks operating expenditures. (Total 2016 waterworks expenditures of \$180,644 includes an amortization figure of \$30,868 and one-time expense of \$6,436. If these figures had not been factored into the equation, the waterworks would have shown a surplus of approximately \$1,349.)

RESERVES

Reserves available for waterworks capital infrastructure:

Capital Trust Funds - \$41,845

\$110,058

Utility Reserve Fund - \$30,070

Waterworks Information available for review at the Village of Muenster Office:

- Waterworks Rate Policy and Capital Investment Strategy
- Capital plans in place and related sources of funding for the projects.
- Financial Overview of the Waterworks
- Reserves available for Waterworks Projects
- Copy of the 2016 Waterworks System Assessment