



PUBLIC WATER SYSTEM ANNUAL REPORT

2023

Due March 31, 2024

Rural Municipality of Rosser

UTILITY DEPARTMENT

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Date updated: March 14, 2024

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1.0 DESCRIPTION OF THE WATER SUPPLY, TREATMENT AND MONITORING

The Rural Municipality of Rosser is provided all water by the Cartier Regional Water Co-op (CRWC) from the Headingley Water Treatment Plant located on Gaol Road in the Rural Municipality of Headingley.

Information on the water treatment system, CRWC annual reports, and water chemistry are available at the CRWC website (CRWC.CA)

2.0 DESCRIPTION OF WATER DISTRIBUTION SYSTEM

The Municipal Utilities owns and manages the distribution system and related elements such as fire hydrants. The water distribution system can be viewed as three separate systems:

- a. The rural distribution system consisting of small diameter watermains without fire flow capability.
- b. The Grosse Isle distribution system from the Grosse Isle reservoir.
- c. The CentrePort distribution system from the Rosser Reservoir.

The rural network currently services 100 customers on route to supplying the Grosse Isle reservoir. The water is provided through a series of pipe networks through the Rural Municipality of St. Francois Xavier into the Rural Municipality of Rosser at two metered entry points, St. Francois Xavier Shop (Holiday Road) and Marquette meter chamber (Hwy 248). There is approximately 42.5 kms of pipe in the Rural network.

The reservoirs in Grosse Isle and Rosser CentrePort are owned and operated by CRWC. The reservoirs include water storage, chlorination facilities and high-capacity pumps to provide water and fire flows to the distribution systems.

Grosse Isle Reservoir Pump Station holds roughly 400m³ water and services properties with potable water and fire protection from the 23 installed hydrants throughout the Village site. There are approximately 3.8 km of distribution watermains in Grosse Isle servicing 80 properties which include single family residents, a school, community centre and a few commercial buildings.

The CentrePort area is serviced from the Rosser/CentrePort Reservoir on Klimpke Road (Road 9E). Rosser Reservoir Pump Station holds roughly 7600 m³ water and services 96 water customers with potable water and fire protection from the 233 installed hydrants throughout the CentrePort area. There is roughly 25 kms of pipe in the CentrePort area.

3.0 WATER QUALITY MONITORING

As per the Rural Municipality of Rosser’s Operating Licence, the Municipality is required to sample for total coliform, E. coli, and chlorine residual on a bi-weekly interval from a sample point in the distribution system. Distribution samples are to be taken from the Rosser Rural Distribution System, Grosse Isle Village Distribution System, and the CentrePort Distribution System.

Table 1: Water Quality/Treatment Standards

Parameter	Quality Standard
Total Coliform	Less than one total coliform bacteria detectable per 100 mL in all distributed water
E. coli	Less than one E. coli bacteria detectable per 100 mL in all distributed water
Chlorine Residual	A free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system
Total Trihalomethanes (THMs)	Less than or equal to 0.10 mg/L as locational annual average of quarterly samples
Total Haloacetic acids (HAAs)	Less than or equal to 0.08 mg/L as locational annual average of quarterly samples
Lead	Less than or equal to 0.005 mg/L
Manganese	Less than or equal to 0.12 mg/L

Table 2: Monitoring Schedule

Parameter	Monitoring Requirement
Bacteriological (total coliform and E. coli)	Biweekly sampling program with each set of samples consisting of a minimum of three distribution samples. Distribution samples are to be taken from the following locations: <ul style="list-style-type: none"> • One sample from the Rural Municipality of Rosser rural distribution system upstream of the Grosse Isle reservoir • One sample form the Grosse Isle Village distribution system • One sample form the CentrePort distribution system Consecutive sample sets to be separated by at least 12 days
Free Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
Total Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
Total Metals (distribution system)	One sample every two years at a mid-point in the distribution system
Total Trihalomethanes (THMs) (distribution system)	One preserved sample taken on a quarterly basis during February, May, August, and November, every second year at the furthest point in the distribution system beginning 2022
Total Haloacetic Acids	One preserved sample taken on a quarterly basis during February, May,

(HAAs) (distribution system)	August, and November, every second year at a mid-point in the distribution system beginning 2022
Lead	As per the instructions of the Drinking Water Officer
Manganese	Two distribution samples taken every year
Other Parameters	As per the instructions of the Drinking Water Officer

The following table identifies the results of the testing with respect to bacteriological monitoring and reporting:

2023 Bacteriological Report

Date Sampled	Sample Point/Identification	Total Coliform	E.Coli	Free CL2	Total CL2
Jan 10 2023	86 Wheatfield	0	0	1.39	1.45
Jan 10 2023	GI School	0	0	0.74	0.84
Jan 10 2023	Rosser School	0	0	1.14	1.28
Jan 24 2023	86 Bergen Cut -off	0	0	1.04	1.14
Jan 24 2023	GI Hall	0	0	0.63	0.76
Jan 24 2023	Meadows Hall	0	0	0.61	0.73
Feb 7 2023	127 Mountainview	0	0	0.88	0.95
Feb 7 2023	GI School	0	0	0.67	0.79
Feb 7 2023	Rosser School	0	0	1.22	1.38
Feb 21 2023	11 Davis	0	0	1.22	1.29
Feb 21 2023	43 Parkland	0	0	0.52	0.62
Feb 21 2023	Marquette Co-op	0	0	0.7	0.76
Mar 7 2023	86 Wheatfield	0	0	1.39	1.48
Mar 7 2023	GI School	0	0	0.72	0.85
Mar 7 2023	Rosser School	0	0	1.26	1.45
Mar 21 2023	330 Eagle	0	0	0.53	0.55
Mar 21 2023	8 Son Cres	0	0	0.68	0.77
Mar 21 2023	22 Railway-Marquette	0	0	1.03	1.14
Apr 4 2023	86 Wheatfield	0	0	1.29	1.39
Apr 4 2023	GI School	0	0	0.72	0.89
Apr 4 2023	Rosser School	0	0	1.27	1.48
Apr 18 2023	606 Goldenrod	0	0	1.25	1.16
Apr 18 2023	43 Parkland	0	0	0.81	1
Apr 18 2023	66150Rd 1E Rosser	0	0	1.21	1.34
May 2 2023	30 Harvest	0	0	0.72	0.73
May 2 2023	GI School	0	0	0.76	0.84
May 2 2023	Rosser School	0	0	1.2	1.28

May 16 2023	86 Wheatfield	0	0	1.28	1.34
May 16 2023	50 PrarieDog Trail	0	0	0.86	0.94
May 16 2023	0069E Rd 68N	0	0	0.62	0.68
May 30 2023	30 Raynhem	0	0	0.97	1.07
May 30 2023	GI School	0	0	0.82	0.93
May 30 2023	Rosser School	59	0	1.21	1.32
Jun 1 Resample Upstream (Rosser School)				Jun 1 Resample Downstream (Rosser Office)	
TC=0	EC=0	Free=1.17	Total=1.33	TC=0	EC=0
Jun 2 Resample Upstream (Rosser School)				June 2 Resample Downstream (Rosser Office)	
TC=0	EC=0	Free=1.21	Total=1.38	TC=0	EC=0
June 13 2023	86 Wheatfield	0	0	1.17	1.27
June 13 2023	43 Parkland	0	0	0.75	0.85
June 13 2023	Marquette Co-op	0	0	0.86	0.95
June 27 2023	3020 Red Fife #300	0	0	0.82	1
June 27 2023	GI School	0	0	0.69	1.04
June 27 2023	Rosser School	0	0	0.94	1.12
Jul 11 2023	30 Clover	0	0	1.1	1.14
Jul 11 2023	111 PrarieDog Trail	0	0	0.76	0.84
Jul 11 2023	Rosser Shop	0	0	1.13	1.33
Jul 25 2023	450 Lucas	0	0	0.94	1.01
Jul 25 2023	43 Parkland	0	0	0.82	0.92
Jul 25 2023	Rosser Shop	0	0	0.94	1.03
Aug 8 2023	5 Roy Roche	0	0	0.85	0.92
Aug 8 2023	Prarie Dog Central	0	0	0.91	1.01
Aug 8 2023	Marquette Co-op	0	0	1.14	1.25
Aug 22 2023	3149 Red Fife Unit 17	0	0	0.82	0.93
Aug 22 2023	72022 PR322	0	0	0.78	0.93
Aug 22 2023	Rosser Shop	0	0	1.14	1.26
Sept 5 2023	422 Lucas	0	0	0.88	0.96
Sept 5 2023	GI School	0	0	0.72	0.77
Sept 5 2023	Rosser School	0	0	1.16	1.31
Sept 19 2023	68 Bergen Cut-off	0	0	1.14	1.23
Sept 19 2023	43 Parkland	0	0	0.62	0.76
Sept 19 2023	20 PR221				
Sept 19 2023	Marquette	0	0	0.97	1.11
Oct 3 2023	86 Wheatfield	0	0	1.05	1.13

Oct 3 2023	GI School	0	0	0.89	0.9
Oct 3 2023	Rosser CC	0	0	0.81	0.92
Oct 17 2023	390 Eagle	0	0	0.7	0.76
Oct 17 2023	GI School	0	0	0.62	0.71
Oct 17 2023	Rosser School	0	0	0.62	0.69
Oct 31 2023	11 Davis	0	0	0.97	0.93
Oct 31 2023	GI School	0	0	0.6	0.69
Oct 31 2023	Rosser Office	0	0	0.77	0.87
Nov 14 2023	11 Bluestem	0	0	0.83	0.9
Nov 14 2023	GI School	0	0	0.67	0.82
Nov 14 2023	Rosser School	0	0	1.12	1.27
Nov 28 2023	86 Wheatfield	0	0	1.12	1.19
Nov 28 2023	43 Parkland	0	0	0.78	0.87
Nov 28 2023	Rosser Shop	0	0	1.3	1.37
Dec 12 2023	86 Wheatfield	0	0	1.28	1.38
Dec 12 2023	GI School	0	0	0.76	0.87
Dec 12 2023	Rosser School	0	0	1.09	1.19
Dec 27 2023	11 Davis	0	0	1.02	1.12
Dec 27 2023	0008E RD 72N	0	0	1	1.09
Dec 27 2023	Rosser Shop	0	0	0.91	1.05

4.0 WATER SYSTEM INCIDENTS AND CORRECTIVE ACTIONS

In 2023, one Water System Incidents had occurred on May 30, 2023. Phoned affected customers. Completed samples on June 1 and 2 upstream and downstream of the positive result location

5.0 DRINKING WATER ORDERS AND CORRECTIVE ACTIONS TAKEN

In 2023, no Drinking Water safety Orders were issued.

6.0 BOIL WATER ADVISORIES ISSUED AND ACTIONS TAKEN IN RESPONSE

In 2023, one Boil Water Advisories was issued for May 31 – June 3 and only affected the Town of Rosser. Phone calls were made to all affected customers. Completed samples on June 1 and 2 upstream and downstream of the positive result location. After both sets of samples came back negative for TC and E.Coli, the boil water advisory was lifted for the Town of Rosser.

7.0 WARNINGS ISSUED, CHARGES LAID IN ACCORDANCE WITH THE DRINKING WATER SAFETY ACT

In 2023, no charges or warnings were issued.

8.0 MAJOR EXPENSES / REPAIRS INCURRED

In 2023, there were 2 water leaks that need to be repaired (540 Oakpoint Hwy and the Farmers Road Line).