



# **PUBLIC WATER SYSTEM ANNUAL REPORT**

**2024**

**Due March 31, 2025**

**Rural Municipality of Rosser**

**UTILITY DEPARTMENT**

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## TABLE OF CONTENTS

1.0	Description of the Water Supply, Treatment and Monitoring Provided	1
2.0	Description of the Water Distribution System	1
3.0	Water Quality Monitoring	
4.0	Water System Incidents and Corrective Actions Taken	7
5.0	Drinking Water Orders and Corrective Actions Taken	7
6.0	Boil Water Advisories Issued and Actions Taken in Response	7
7.0	Warning Issued or Charges Laid on the System in Accordance with Drinking Water Safety Act	7
8.0	Major Expenses Incurred / System Expansion	7

## **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 118 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.

A 1 km water servicing line extension was completed on the Stony Mountain Feeder Main to supply 6 new customers in Sections 26-12-2E and 27-12-2E.

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 400m<sup>3</sup> 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 84 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 m<sup>3</sup> water and services 108 water customers with potable water and fire protection from the 234 installed hydrants throughout the CentrePort area. There is roughly 30 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*

<b>Parameter</b>	<b>Quality Standard</b>
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 samples
Lead	Less than or equal to 0.005 mg/L based on a sample(s) collected at a cold water tap or other appropriate location where water may be used for drinking or food preparation
Manganese	Less than or equal to 0.12 mg/L

*Table 2: Monitoring Schedule*

<b>Parameter</b>	<b>Monitoring Requirement</b>
Bacteriological (total coliform and E. coli)	<p>Biweekly sampling program with each set of samples consisting of a minimum of three distribution samples. Distribution samples:</p> <ul style="list-style-type: none"> <li>• One sample from the Rural Municipality of Rosser rural distribution system upstream from the Grosse Isle reservoir</li> <li>• One sample from the Grosse Isle Village distribution system</li> <li>• One sample from the CentrePort distribution system</li> </ul> <p>Consecutive sample sets to be separated by at least 12 days</p>
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 during August every second year at the furthest point in the distribution system

Lead	As per ODW-OG-17 Residential Lead Monitoring Program A minimum of 20 residential tap water samples collected throughout the year, with 2/3 of the samples being collected between June and October
Manganese	One 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:

### 2024 Bacteriological Report

Date Sampled	Sample Point/Identification	Total Coliform	E.Coli	Free CL2	Total CL2
Jan 09 2024	25 Durum	0	0	0.89	0.92
Jan 09 2024	GI School	0	0	0.71	0.9
Jan 09 2024	Rosser School	0	0	0.95	1.09
Jan 23 2024	81 Raynhem	0	0	1	1.03
Jan 23 2024	72022 PR 322	0	0	0.63	0.72
Jan 23 2024	Marquette CO-OP	0	0	0.88	0.97
Feb 6 2024	86 Wheatfield	0	0	1.51	1.58
Feb 6 2024	GI School	0	0	0.66	0.77
Feb 6 2024	Rosser School	0	0	0.93	1.02
Feb 20th, 2024	606 Goldenrod	0	0	1.09	1.2
Feb 20th, 2024	43 Parkland	0	0	0.64	0.72
Feb 20th, 2024	Rosser Office	0	0	0.96	1.11
March 5th, 2024	86 Wheatfield	0	0	1.26	1.34
March 5th, 2024	GI School	0	0	0.65	0.71
March 5th, 2024	Rosser School	0	0	1.05	1.11
March 19th, 2024	99 Bergen Cut off	0	0	1.14	1.28
March 19th, 2024	30 Prairie Dog Trail	0	0	0.81	0.9
March 19th, 2024	Rosser Shop	0	0	0.92	0.98
April 2nd, 2024	11 Davis	0	0	1.05	1.2
April 2nd, 2024	GI School	0	0	0.85	0.94
April 2nd, 2024	Rosser School	0	0	1.45	1.54
April 16th, 2024	11 Bluestem	0	0	0.81	0.97
April 16th, 2024	72022 PR 322	0	0	1	1.08
April 16th, 2024	66 150 RD 1E	0	0	1.29	1.4
April 30th, 2024	86 Wheatfield	0	0	0.78	0.91
April 30th, 2024	GI School	0	0	0.91	1.01
April 30th, 2024	Rosser School	0	0	1.31	1.45

May 14th, 2024	3120 Red Fife (Bobcat)	0	0	0.63	0.75
May 14th, 2024	27 Glengarry	165	0	0.99	1.2
May 14th, 2024	69 083 RD 6W	0	0	1	1.12
May 15th Resample	27 Glengarry	0	0	0.88	1.12
May 15th Resample Upstream	22 Glengarry	0	0	0.94	1.33
May 15th Resample Downstream	19 Glengarry	0	0	0.81	0.98
May 16th Resample	27 Glengarry			0.91	1.01
May 16th Resample Upstream	22 Glengarry	0	0	0.90	1.03
May 16th Resample Downstream	19 Glengarry	0	0	0.90	1.05
May 28th, 2024	137 Wheatfield	0	0	1.04	1.19
May 28th, 2024	GI School	0	0	0.83	1
May 28th, 2024	Rosser School	0	0	1.1	1.23
June 11th, 2024	11 Davis	0	0	0.91	1.02
June 11th, 2024	43 Parkland	0	0	0.66	0.8
June 11th, 2024	Marquette CO-OP	0	0	0.8	0.88
June 25th, 2024	86 Wheatfield	0	0	1.21	1.3
June 25th, 2024	GI School	0	0	0.65	0.73
June 25th, 2024	Rosser School	0	0	1.2	1.34
July 9th, 2024	11 Bluestem	0	0	0.92	1.06
July 9th, 2024	72022 PR321	0	0	0.84	1.02
July 9th, 2024	70 005 PTH7	0	0	1.24	1.34
July 23rd, 2024	3149 Red Fife Unit 7	0	0	0.8	1.19
July 23rd, 2024	111 Prairie Dog Trail	0	0	0.84	0.9
July 23rd, 2024	66 150 RD 1E	0	0	1.11	1.25
August 6th, 2024	86 Wheatfield	0	0	0.92	0.99
August 6th, 2024	30 Prairie Dog Trail	0	0	0.71	0.79
August 6th, 2024	67081 PR221	0	0	0.94	1.05
August 20th, 2024	11 Davis	0	0	0.8	0.88
August 20th, 2024	0117E PR321	0	0	0.63	0.73
August 20th, 2024	66150 RD 1E	0	0	0.97	1.07
September 3rd, 2024	86 Wheatfield	0	0	1.05	1.15
September 3rd, 2024	43 Parkland	0	0	0.42	0.53
September 3rd, 2024	66 150 RD 1E	0	0	0.67	0.74
September 17th, 2024	11 Davis	0	0	0.94	1.07
September 17th, 2024	GI School	0	0	0.65	0.73
September 17th, 2024	Rosser School	0	0	1.28	1.38
October 1st, 2024	86 Wheatfield	0	0	1.05	1.11

October 1st, 2024	72020 Pr322	0	0	0.67	0.77
October 1st, 2024	66150 RD 1E	0	0	0.85	0.9
October 15th, 2024	106 Mountainview	0	0	0.73	0.81
October 15th, 2024	GI School	0	0	0.69	0.75
October 15th, 2024	Rosser School	0	0	1.28	1.38
October 29th, 2024	11 Bluestem	0	0	1.14	1.26
October 29th, 2024	30 Prairie Dog Trail	0	0	0.75	0.85
October 29th, 2024	Public Works Shop	0	0	0.99	1.1
November 12th, 2024	86 Wheatfield	0	0	1.08	1.17
November 12th, 2024	GI School	0	0	0.78	0.86
November 12th, 2024	Rosser School	0	0	1.19	1.32
November 26th, 2024	508 Goldenrod	0	0	0.65	0.72
November 26th, 2024	72 022 PR 322	0	0	0.79	0.89
November 26th, 2024	66150 RD 1E	0	0	0.69	0.75
December 10th, 2024	11 Davis	0	0	1.39	1.49
December 10th, 2024	GI School	0	0	0.83	0.88
December 10th, 2024	Rosser School	0	0	1.26	1.32
December 23rd, 2024	106 Wheatfield	0	0	1.2	1.33
December 23rd, 2024	43 Parkland	0	0	0.74	0.84
December 23rd, 2024	Rosser Shop	0	0	1.09	1.22

### THM Sampling 2024

		Total THM
Aug 16 2024	310 Eagle	0.113mg/L

Total Metals August 16 2024 (86 Wheatfield)	
Aluminum (total)	0.0066 mg/L
Antimony (total)	<0.00010mg/L
Arsenic (total)	0.00060 mg/L
Cadmium (total)	0.0000152mg/L
Chromium (total)	<0.00050mg/L
Cobalt (total)	<0.00010mg/L
Copper (total)	0.0311mg/L
Lead (total)	0.000294mg/L
Manganese (total)	0.00347mg/L
Molybdenum (total)	0.000240mg/L
Nickel (total)	0.00066mg/L
Selenium (total)	0.000059mg/L
Silver (total)	<0.000010mg/L
Tin (total)	<0.00010mg/L

Titanium (total)	Not Detected
Zinc (total)	0.0473mg/L

### Residential Lead Monitoring Program 2024

Community A (GI)	Community B (RR)	Community C (Mar)
0.000163 mg/L	0.000456 mg/L	0.00143 mg/L
0.000421 mg/L	0.000428 mg/L	0.000208 mg/L
0.000393 mg/L	0.000339 mg/L	0.00005 mg/L
0.000213 mg/L	0.000380 mg/L	
0.000224 mg/L	0.000633 mg/L	
0.000609 mg/L	0.000319 mg/L	
0.000394 mg/L		
0.000522 mg/L		
0.000387 mg/L		
0.000137 mg/L		
0.000634 mg/L		

#### 4.0 WATER SYSTEM INCIDENTS AND CORRECTIVE ACTIONS

In 2024, one Water System Incidents had occurred on May 14, 2024 (Daycare 27 Glengarry). Phoned affected customers. Completed samples on May 15 and May 16 upstream and downstream of the positive result location

#### 5.0 DRINKING WATER ORDERS AND CORRECTIVE ACTIONS TAKEN

In 2024, no Drinking Water safety Orders were issued.

#### 6.0 BOIL WATER ADVISORIES ISSUED AND ACTIONS TAKEN IN RESPONSE

In 2024, one Boil Water Advisories was issued for May 14 – May 16 and only affected 27 Glengarry. A Phone calls was made to affected customer. Completed samples on May 15 and May 16 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 27 Glengarry.

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

In 2024, no charges or warnings were issued.

#### 8.0 MAJOR EXPENSES / REPAIRS INCURRED

In 2024, there were no major expenses or repairs incurred.