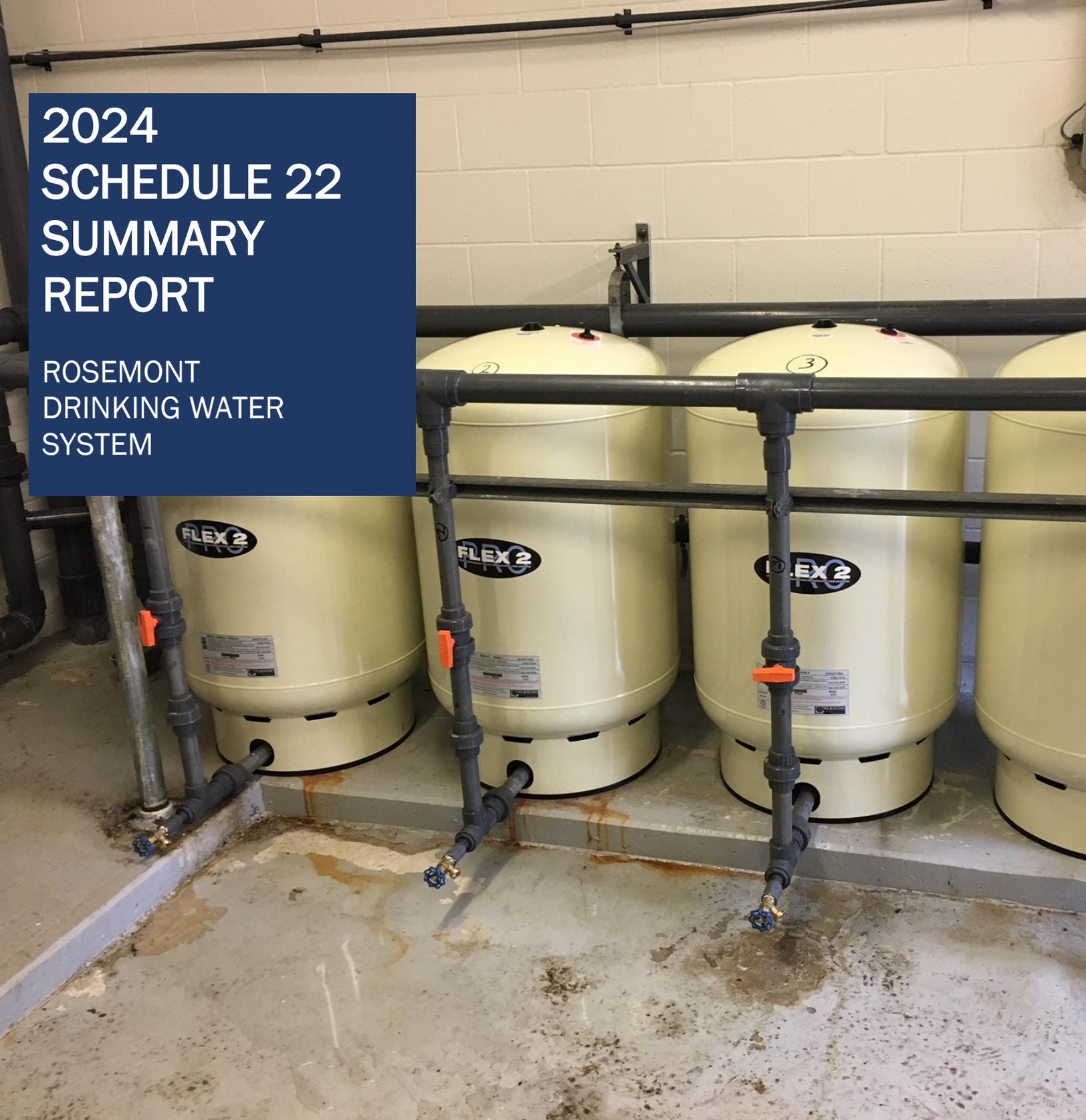


2024 SCHEDULE 22 SUMMARY REPORT

ROSEMONT
DRINKING WATER
SYSTEM



For the period of
January 1st, 2024 to December 31st, 2024

Prepared for the Corporation of the Township of Adjala-Tosorontio by the Ontario Clean Water Agency

This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

Drinking-Water System Number:	220003859
Drinking-Water System Name:	Rosemont Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2024 – December 31, 2024

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on July 16, 2024 for the period covering June 7, 2023 to July 16, 2024. On October 9, 2024 the Inspection Report was issued and an Inspection Summary Rating Record (IRR) of 100% was received.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2023/2024 MECP Inspection Report

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

The following table (Table 2) is a summary of any incidents that the Operating Authority interpreted as instances where any requirements of the Act, the regulations, the system's approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliances are noted in the MECP Inspection Report and included in Table 1.

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

Incident	Duration	Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Rosemont Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 7) summarize the quantities and flowrates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flowrates approved in the system’s approval, DWWP or MDWL.

As required by the MDWL, regulatory flow measuring devices are checked/verified and where necessary calibrated. These checks/verifications/calibrations are performed annually by a third party to ensure the flow measuring devices are within acceptable deviation limits.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	097-105 (Issue Number: 4)
Allowable Rated Capacity:	85 m ³ /day
Allowable Flowrate into Treatment System:	Not listed in MDWL

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow ^{3A}					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	23.68	27.86%	30.95	36.41%	734.20
February	26.75	31.47%	43.87	51.61%	775.77
March	21.06	24.78%	49.50	58.24%	652.72
April	22.67	26.67%	49.67	58.44%	680.18
May	27.28	32.09%	50.35	59.24%	845.62
June	27.70	32.59%	51.09	60.11%	831.04
July	26.18	30.80%	52.53	61.80%	811.46
August	27.90	32.82%	52.07	61.26%	864.93
September	26.89	31.64%	48.56	57.13%	806.69
October	24.10	28.35%	44.01	51.78%	746.96
November	26.84	31.58%	41.83	49.21%	805.27
December	26.59	31.28%	41.27	48.55%	824.39
2024	25.63	30.15%	52.53	61.80%	9,379.24

^{3A}Treated water flows for the Rosemont DWS are based on the combined raw water well water flows for Well #1 (PW1A) and Well #2 (PW3A). There is only one set of pumps (one per well) responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (85 m³/day), for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

A summary of flowrates of water that flows into the treatment system can be found in Table 5 and Table 7. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem.

2.2 Raw Water

Permit to Take Water Number (PTTW):	3283-C7ZPGH
Allowable Maximum Raw Water Volume - Well #1: PW1A	33 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #1: PW1A	23 L/min (0.38 L/sec)
Allowable Maximum Raw Water Volume - Well #2: PW3A	52 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #2: PW3A	36 L/min (0.60 L/sec)

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 4. Raw Water Well #1 (PW1A) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #1 (PW1A)					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	0.65	1.97%	7.72	23.39%	20.16
February	11.66	35.33%	21.51	65.18%	338.18
March	11.08	33.58%	21.84	66.18%	343.55
April	11.51	34.88%	22.29	67.55%	345.20
May	12.12	36.73%	22.47	68.09%	375.57
June	12.23	37.06%	22.73	68.88%	366.99
July	11.35	34.39%	22.36	67.76%	351.81
August	12.21	37.00%	22.29	67.55%	378.38
September	11.82	35.82%	21.14	64.06%	354.55
October	10.98	33.27%	20.02	60.67%	340.31
November	12.83	38.88%	20.39	61.79%	384.76
December	13.50	40.91%	20.86	63.21%	418.47
2024	10.99	33.30%	22.73	68.88%	4,017.93

A review of flow information for the reporting period indicates that Well #1- PW1A operated within the PTTW's maximum allowable daily raw water volume (33 m³/day).

Table 5. Raw Water Well #1 (PW1A) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #1 (PW1A)		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.12	0.71 ^{5A}
February	0.24	0.40 ^{5B}
March	0.24	0.39 ^{5C}
April	0.24	0.39 ^{5D}
May	0.24	0.39 ^{5E}
June	0.26	0.38
July	0.25	0.38
August	0.27	0.45 ^{5F}
September	0.24	0.47 ^{5G}
October	0.21	0.44 ^{5H}
November	0.25	0.37
December	0.24	0.43 ^{5I}
2024	0.23	0.71^{5A}

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate (0.38 L/sec) for Well #1 (PW1A) with the exception of:

- ^{5A}January 11 - flowrate exceedance was for a short duration due to maintenance activities; raw water was flushed to waste
- ^{5B}February 7 - flowrate exceedance was for a short duration due to maintenance activities; raw water was flushed to waste
- ^{5C}March 3, 7 and 10 - flowrate exceedances were for a short duration due to well pump startups
- ^{5D}April 21 and 23 - flowrate exceedances were for a short duration due to well pump startups
- ^{5E}May 20 - flowrate exceedance was for a short duration due to well pump startup
- ^{5F}August 24 and 26 - flowrate exceedances were for a short duration due to well pump startups
- ^{5F}August 30 - flowrate exceedance was for a short duration due to maintenance activities; raw water was flushed to waste
- ^{5G}September 17 - flowrate exceedance was for a short duration due to maintenance activities; raw water was flushed to waste
- ^{5H}October 17 - flowrate exceedance was due to swabbing and flushing activities in the distribution system
- ^{5I}December 24- flowrate exceedance was for a short duration due to well pump startup

Table 6. Raw Water Well #2 (PW3A) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #2 (PW3A)					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	23.03	44.29%	26.65	51.25%	714.04
February	15.09	29.02%	25.12	48.31%	437.59
March	9.97	19.17%	27.66	53.19%	309.17
April	11.17	21.48%	27.60	53.08%	334.98
May	15.16	29.15%	28.04	53.92%	470.05
June	15.47	29.75%	28.36	54.54%	464.05
July	14.83	28.52%	30.17	58.02%	459.65
August	15.70	30.19%	29.78	57.27%	486.55
September	15.07	28.98%	27.42	52.73%	452.14
October	13.12	25.23%	23.99	46.13%	406.65
November	14.02	26.96%	21.44	41.23%	420.51
December	13.09	25.17%	20.71	39.83%	405.92
2024	14.64	28.15%	30.17	58.02%	5,361.31

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable daily raw water volume (52 m³/day) for Well #2 (PW3A).

Table 7. Raw Water Well #2 (PW3A) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #2 (PW3A)		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.29	0.52
February	0.31	0.43
March	0.30	0.42
April	0.29	0.40
May	0.31	0.40
June	0.33	0.44
July	0.32	0.38
August	0.34	0.38
September	0.31	0.47
October	0.26	0.37
November	0.27	0.34
December	0.24	0.43
2024	0.30	0.52

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable raw water flowrate (0.60 L/sec) for Well #2 (PW3A).