

# 2024 SCHEDULE 22 SUMMARY REPORT

ELMVALE  
DRINKING WATER  
SYSTEM



For the period of  
January 1<sup>st</sup>, 2024 to December 31<sup>st</sup>, 2024

Prepared for the Corporation of the Township of Springwater 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:

<b>Drinking-Water System Number:</b>	220000700
<b>Drinking-Water System Name:</b>	Elmvale Drinking Water System
<b>Drinking-Water System Owner:</b>	The Corporation of the Township of Springwater
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	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 October 25, 2024 for the period covering November 9, 2023 to October 25, 2024. On January 20, 2025 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 Elmvale Drinking Water System Annual Report (Section 11).

## 2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 8) 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

<b>Municipal Drinking Water License (MDWL):</b>	128-106 (Issue Number: 4)
<b>Allowable Rated Capacity:</b>	4,546 m <sup>3</sup> /day
<b>Allowable Flowrate into Treatment System:</b>	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					
Timeframe	Average Flow (m <sup>3</sup> /day)	Percent of Rated Capacity	Maximum Flow (m <sup>3</sup> /day)	Percent of Rated Capacity	Total Volume (m <sup>3</sup> )
January	558.48	12.29%	677.00	14.89%	17313.00
February	539.72	11.87%	648.00	14.25%	15652.00
March	560.68	12.33%	799.00	17.58%	17381.00
April	595.17	13.09%	1206.00	26.53%	17855.00
May	614.10	13.51%	866.00	19.05%	19037.00
June	637.20	14.02%	790.00	17.38%	19116.00
July	656.71	14.45%	800.00	17.60%	20358.00
August	634.42	13.96%	750.00	16.50%	19667.00
September	680.97	14.98%	1383.00	30.42%	20429.00
October	599.84	13.19%	686.00	15.09%	18595.00
November	588.53	12.95%	630.00	13.86%	17656.00
December	608.58	13.39%	651.00	14.32%	18866.00
<b>2024</b>	<b>606.20</b>	<b>13.33%</b>	<b>1383.00</b>	<b>30.42%</b>	<b>221925.00</b>

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (4,546 m<sup>3</sup>/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

<b>Permit to Take Water Number (PTTW):</b>	1862-BYHLSS
<b>Allowable Maximum Raw Water Volume - Well #1:</b>	2,273 m <sup>3</sup> /day
<b>Allowable Maximum Raw Water Flowrate - Well #1:</b>	1,600 L/min (26.67 L/sec)
<b>Allowable Maximum Volume of Raw Water - Well #2:</b>	2,273 m <sup>3</sup> /day
<b>Allowable Maximum Raw Water Flowrate – Well #2:</b>	1,600 L/min (26.67 L/sec)
<b>Allowable Maximum Daily Taking of Water from Any Combination of Wells:</b>	4,546 m <sup>3</sup> /day

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) Monthly Average, Maximum Flow and Total Volume for 2024**

Raw Water Flow – Well #1					
Timeframe	Average Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Maximum Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Total Volume (m <sup>3</sup> )
January <sup>4A</sup>	13.59	0.60%	18.00	0.79%	67.96
February	331.70	14.59%	618.00	27.19%	2321.88
March	616.35	27.12%	907.00	39.90%	19107.00
April	648.50	28.53%	1297.00	57.06%	19455.00
May	674.48	29.67%	988.00	43.47%	20909.00
June	683.63	30.08%	1036.00	45.58%	18458.00
July	16.60	0.73%	23.00	1.01%	83.00
August	8.25	0.36%	15.00	0.66%	33.00
September	697.35	30.68%	1480.00	65.11%	16039.00
October	652.29	28.70%	963.00	42.37%	20221.00
November	634.70	27.92%	967.00	42.54%	19041.00
December	649.06	28.56%	971.00	42.72%	20121.00
<b>2024</b>	<b>468.88</b>	<b>20.63%</b>	<b>1480.00</b>	<b>65.11%</b>	<b>155856.84</b>

<sup>4A</sup>Well #1 was offline for the majority of the month in January 2024 due to highlift pump repairs.

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #1 (2,273 m<sup>3</sup>/day).

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

Raw Water Flowrate – Well #1	
Timeframe	Maximum Flowrate (L/sec)
January	24.54
February	26.04
March	25.70
April	30.00 <sup>5A</sup>
May	30.00 <sup>5B</sup>
June	25.45
July	23.11
August	23.89
September	24.90
October	25.17
November	25.15
December	25.00
<b>2024</b>	<b>30.00<sup>5A</sup></b>

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable raw water flowrate for Well #1 (26.67 L/sec) with exception of:

- <sup>5A</sup>April 13, 2024 - Flowrate exceedance was not an actual reading was due to power loss.
- <sup>5B</sup>May 16, 2024 - Flowrate exceedances were of short duration and was a result of filling the west storage tower.

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

Raw Water Flow – Well #2					
Timeframe	Average Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Maximum Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Total Volume (m <sup>3</sup> )
January	620.42	27.30%	832.00	36.60%	19233.00
February	558.37	24.57%	824.00	36.25%	15076.00
March	8.50	0.37%	10.00	0.44%	34.00
April	43.80	1.93%	175.00	7.70%	219.00
May	79.09	3.48%	277.00	12.19%	870.00
June	214.00	9.41%	824.00	36.25%	2568.00
July	721.87	31.76%	1048.00	46.11%	22378.00
August	694.77	30.57%	978.00	43.03%	21538.00
September	520.92	22.92%	900.00	39.60%	6251.00
October	10.40	0.46%	14.00	0.62%	52.00
November	13.80	0.61%	22.00	0.97%	69.00
December	8.83	0.39%	16.00	0.70%	53.00

<b>Raw Water Flow – Well #2</b>					
<b>Timeframe</b>	<b>Average Flow (m<sup>3</sup>/day)</b>	<b>Percent of Allowable Volume</b>	<b>Maximum Flow (m<sup>3</sup>/day)</b>	<b>Percent of Allowable Volume</b>	<b>Total Volume (m<sup>3</sup>)</b>
<b>2024</b>	<b>291.23</b>	<b>12.81%</b>	<b>1048.00</b>	<b>46.11%</b>	<b>88341.00</b>

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable daily raw water volume for Well #2 (2,273 m<sup>3</sup>/day).

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

<b>Raw Water Flowrate – Well #2</b>	
<b>Timeframe</b>	<b>Maximum Flowrate (L/sec)</b>
January	23.91
February	23.83
March	23.20
April	23.16
May	35.00 <sup>7A</sup>
June	22.64
July	22.69
August	22.99
September	23.16
October	22.80
November	31.59 <sup>7B</sup>
December	23.30
<b>2024</b>	<b>35.00<sup>7A</sup></b>

A review of flow information for the reporting period indicates that the system operated within the PTTW’s the maximum allowable raw water flowrate for Well #2 (26.67 L/sec) with the exception of:

- <sup>7A</sup>May 2, 2024 - Flowrate exceedance was not an actual reading due to possibly singer issue and sporadic well flow.
- <sup>7B</sup>November 7, 2024 - Flowrate exceedance was of very short duration and a result of well start-up.

**Table 8. Combined Well (Well #1, & Well #2) Annual and Monthly Flow and Total Volume for 2024**

<b>Combined Well Flow (Well #1 &amp; Well #2)</b>					
<b>Timeframe</b>	<b>Average Flow (m<sup>3</sup>/day)</b>	<b>Percent of Allowable Volume</b>	<b>Maximum Flow (m<sup>3</sup>/day)</b>	<b>Percent of Allowable Volume</b>	<b>Total Volume (m<sup>3</sup>)</b>
January	622.61	13.70%	832.00	18.30%	19300.96
February	599.93	13.20%	824.00	18.13%	17397.88
March	617.45	13.58%	907.00	19.95%	19141.00
April	655.80	14.43%	1297.00	28.53%	19674.00
May	702.55	15.45%	988.00	21.73%	21779.00
June	700.87	15.42%	1036.00	22.79%	21026.00
July	724.55	15.94%	1048.00	23.05%	22461.00
August	695.84	15.31%	978.00	21.51%	21571.00
September	743.00	16.34%	1480.00	32.56%	22290.00
October	653.97	14.39%	963.00	21.18%	20273.00
November	637.00	14.01%	967.00	21.27%	19110.00
December	650.77	14.32%	971.00	21.36%	20174.00
<b>2024</b>	<b>667.03</b>	<b>14.67%</b>	<b>1480.00</b>	<b>32.56%</b>	<b>244197.84</b>

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily taking of water from any combination of wells (4,546 m<sup>3</sup>/day).