



2025 SCHEDULE 22 SUMMARY REPORT

THORNTON (GLEN AVENUE)
DRINKING WATER SYSTEM

For the period of
January 1st, 2025 to December 31st, 2025

Prepared for the Corporation of the Township of Essa 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:	220006945
Drinking-Water System Name:	Thornton (Glen Avenue) Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Essa
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2025 – December 31, 2025

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on May 27, 2025 for the period covering April 1, 2024 to May 27, 2025. On August 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 2024/2025 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 has 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 Thornton (Glen Avenue) Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 13) 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):	118-101 (Issue Number: 4) <ul style="list-style-type: none"> January 1 to November 25, 2025 118-101 (Issue Number: 5) <ul style="list-style-type: none"> November 26 to December 31, 2025
Allowable Rated Capacity:	1,540 m ³ /day

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 2025

Treated Water Flow					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	332.16	21.57%	368.65	23.94%	10,297.03
February	298.11	19.36%	331.77	21.54%	8,347.07
March	302.69	19.66%	348.24	22.61%	9,383.37
April	311.27	20.21%	774.42	50.29%	9,338.10
May	377.09	24.49%	518.34	33.66%	11,689.71
June	602.48	39.12%	905.56	58.80%	18,074.48
July	851.37	55.28%	1,046.21	67.94%	26,392.43
August	712.60	46.27%	1,044.49	67.82%	22,090.71
September	513.05	33.31%	678.69	44.07%	15,391.35
October	413.97	26.88%	603.79	39.21%	12,833.02
November	337.67	21.93%	388.55	25.23%	10,130.06

Treated Water Flow					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
December	313.69	20.37%	363.00	23.57%	9,724.42
2025	448.47	29.12%	1,046.21	67.94%	163,691.75

A review of flow information for the reporting period indicates that the Thornton drinking water system operated within the rated capacity specified in the MDWL (1,540 m³/day), for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Maximum Flowrates for 2025

Treated Water Maximum Flowrate	
Timeframe	Maximum Flowrate (L/sec)
January	56.30
February	21.20
March	46.60
April	58.30
May	72.30
June	87.30
July	97.80
August	48.00
September	56.80
October	65.70
November	25.90
December	73.50
2025	97.80

A summary of flowrates of water that flows out of the Thornton treatment subsystem to the distribution system can be found in the above table. A summary of flowrates of water that flows into the Thornton treatment subsystem can be found in Tables 6, 8, 10 and 12.

2.2 Raw Water

Permit to Take Water Number (PTTW):	0113-A4LMPV <ul style="list-style-type: none"> • January 1 to December 21, 2025 0123-DPFS8Q <ul style="list-style-type: none"> • December 22 to 31, 2025
Allowable Maximum Raw Water Volume - Well #1:	522.72 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #1:	363 L/min (6.05 L/sec)
Allowable Maximum Volume of Raw Water - Well #2:	522.72 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #2:	363 L/Min (6.05 L/sec)
Allowable Maximum Volume of Raw Water - Well #3:	492.48 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #3:	342 L/min (5.70 L/sec)
Allowable Maximum Volume of Raw Water - Well #4:	328.32 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #4:	228 L/min (3.80 L/sec)
Allowable Maximum Combined Raw Water Volume from Well #1, Well #2, Well #3 and Well #4	1,540.00 m ³ /day

During the reporting period Thornton (Glen Avenue) Drinking Water System operated under two separate PTTWs:

- From January 1 to December 21, 2025: Thornton (Glen Avenue) DWS operated under PTTW #0113-A4LMPV.
- From December 22 to the end of the reporting period (December 31, 2025): Thornton (Glen Avenue) DWS operated under PTTW #0123-DPFS8Q. There were no changes to the raw water allowable maximum volume takings or flowrates. There was no change in the allowable maximum combined raw water volume from all wells.

As per both PTTWs, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit. Notwithstanding the totals identified above for each well, the maximum combined taking per day from Well #1, #2, #3 and #4 is limited to 1,540,000 litres (1,540.0 m³/day). The PTTW also stipulates that Wells #3 and #4 shall not be operated simultaneously. The system is design so that Well #3 and Well #4 cannot physically run at the same time, an internal lockout mechanism has been installed to lock out one well when the other well is running.

Table 5. Raw Water (Well #1) Monthly Average, Maximum Flow and Total Volume for 2025

Raw Water Flow – Well #1					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	80.79	15.46%	198.47	37.97%	2,504.49
February	78.12	14.94%	250.13	47.85%	2,187.37
March	115.18	22.03%	260.79	49.89%	3,570.58
April	108.99	20.85%	350.80	67.11%	3,269.79
May	122.58	23.45%	279.60	53.49%	3,799.83
June	174.98	33.47%	437.90	83.77%	5,249.25
July	252.65	48.33%	483.31	92.46%	7,832.26
August	269.67	51.59%	481.80	92.17%	8,359.83
September	140.68	26.91%	339.49	64.95%	4,220.44
October	100.76	19.28%	257.76	49.31%	3,123.62
November	125.59	24.03%	228.61	43.73%	3,767.74
December	78.62	15.04%	192.28	36.78%	2,437.11
2025	137.38	26.28%	483.31	92.46%	50,322.31

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable daily raw water volume for Well #1 (522.72 m³/day).

Table 6. Raw Water (Well #1) Annual and Monthly Average and Maximum Flowrates for 2025

Raw Water Flowrate – Well #1		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	2.60	6.30 ^{6A}
February	2.87	6.20 ^{6A}
March	4.18	6.20 ^{6A}
April	3.78	6.20 ^{6A}
May	3.60	6.20 ^{6A}
June	3.06	6.20 ^{6A}
July	4.64	6.10 ^{6A}
August	5.42	6.20 ^{6A}
September	4.18	6.10 ^{6A}
October	3.24	6.10 ^{6A}
November	4.25	6.10 ^{6A}
December	3.51	6.10 ^{6A}
2025	3.78	6.30^{6A}

A review of flow information for the reporting period indicates:

- ^{6A}January to December - flowrate exceedances were a result of instantaneous well pump starts. Maximum flowrates exceedances for all months were 0.05 to 0.25 L/sec higher than the allowable flowrates (6.05 L/sec). The average monthly flowrate for each reporting month was below the allowable maximum rate.

Table 7. Raw Water (Well #2) Monthly Average, Maximum Flow and Total Volume for 2025

Raw Water Flow – Well #2					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	108.96	20.84%	227.85	43.59%	3,377.78
February	100.77	19.28%	196.75	37.64%	2,821.68
March	61.54	11.77%	218.87	41.87%	1,907.84
April	91.05	17.42%	341.92	65.41%	2,731.42
May	89.67	17.15%	413.71	79.15%	2,779.72
June	164.50	31.47%	456.30	87.29%	4,935.03
July	261.44	50.01%	458.62	87.74%	8,104.53
August	203.01	38.84%	423.23	80.97%	6,293.17
September	150.33	28.76%	404.66	77.41%	4,509.86
October	130.18	24.90%	355.03	67.92%	4,035.67
November	70.65	13.52%	317.26	60.69%	2,119.49
December	97.73	18.70%	231.46	44.28%	3,029.50
2025	127.49	24.39%	458.62	87.74%	46,645.69

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable daily raw water volume for Well #2 (522.72 m³/day).

Table 8. Raw Water (Well #2) Annual and Monthly Average and Maximum Flowrates for 2025

Raw Water Flowrate – Well #2		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	2.99	6.30 ^{8A}
February	3.30	6.20 ^{8A}
March	1.76	6.20 ^{8A}
April	2.65	6.20 ^{8A}
May	2.57	6.30 ^{8A}
June	3.21	6.00
July	3.97	6.20 ^{8A}
August	4.56	6.20 ^{8A}

Raw Water Flowrate – Well #2		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
September	3.92	6.20 ^{8A}
October	3.41	6.20 ^{8A}
November	2.85	6.20 ^{8A}
December	3.46	6.20 ^{8A}
2025	3.22	6.30^{8A}

A review of flow information for the reporting period indicates:

- ^{8A}January to December (excluding June) - flowrate exceedances were a result of instantaneous well pump starts. Maximum flowrates exceedances for all months were 0.25 to 0.40 L/sec higher than the allowable flowrates (6.05 L/sec). The average monthly flowrate for each reporting month was below the allowable maximum rate.

Table 9. Raw Water (Well #3) Monthly Average, Maximum Flow and Total Volume for 2025

Raw Water Flow – Well #3					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	62.69	12.73%	154.14	31.30%	1,943.53
February	44.75	9.09%	144.87	29.42%	1,253.03
March	82.12	16.68%	182.22	37.00%	2,545.76
April	52.31	10.62%	134.60	27.33%	1,569.28
May	94.75	19.24%	225.98	45.89%	2,937.39
June	130.07	26.41%	338.71	68.78%	3,902.12
July	137.82	27.98%	371.13	75.36%	4,272.29
August	60.72	12.33%	365.97	74.31%	1,882.17
September	105.08	21.34%	263.00	53.40%	3,152.34
October	78.35	15.91%	199.61	40.53%	2,428.87
November	96.69	19.63%	174.24	35.38%	2,900.67
December	61.77	12.54%	151.05	30.67%	1,915.02
2025	83.93	17.04%	371.13	75.36%	30,702.47

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable daily raw water volume for Well #3 (492.48 m³/day)

Table 10. Raw Water (Well #3) Annual and Monthly Average and Maximum Flowrates for 2025

Raw Water Flowrate – Well #3		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	2.06	6.00 ^{10A}
February	1.61	5.80 ^{10A}
March	3.11	5.90 ^{10A}
April	1.95	6.90 ^{10A}
May	2.73	5.90 ^{10A}
June	2.32	5.80 ^{10A}
July	1.98	5.80 ^{10A}
August	1.82	5.50
September	3.16	5.70
October	2.50	5.70
November	3.68	5.80 ^{10A}
December	2.85	5.70
2025	2.48	6.90^{10A}

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable raw water flowrate for Well #3 (5.70 L/sec), with the exception of:

- ^{10A}January to July, and November 2025 - flowrate exceedances were a result of instantaneous at well pump starts and of short duration. Maximum flowrate exceedances were only 0.10 to 1.10 L/sec higher than the allowable flowrates (5.70 L/sec). The average monthly flowrates for each reporting month were below the allowable maximum rate.

Table 11. Raw Water (Well #4) Monthly Average, Maximum Flow and Total Volume for 2025

Raw Water Flow – Well #4					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	60.83	18.53%	126.77	38.61%	1,885.73
February	55.98	17.05%	109.92	33.48%	1,567.44
March	33.15	10.10%	123.27	37.55%	1,027.53
April	41.35	12.60%	191.03	58.18%	1,240.63
May	46.46	14.15%	134.02	40.82%	1,440.18
June	91.05	27.73%	256.83	78.23%	2,731.52
July	134.68	41.02%	259.09	78.91%	4,174.94
August	127.14	38.73%	249.36	75.95%	3,941.43
September	80.45	24.50%	214.82	65.43%	2,413.45

Raw Water Flow – Well #4					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
October	69.87	21.28%	190.61	58.06%	2,166.03
November	53.43	16.27%	126.61	38.56%	1,656.18
December	15.70	4.78%	116.76	35.56%	471.08
2025	67.51	20.56%	259.09	78.91%	24,716.14

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable daily raw water volume for Well #4 (328.32 m³/day).

Table 12. Raw Water (Well #4) Annual and Monthly Average and Maximum Flowrates for 2025

Raw Water Flowrate – Well #4		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	1.69	4.20 ^{12A}
February	1.87	4.10 ^{12A}
March	0.91	4.30 ^{12A}
April	1.31	6.20 ^{12A}
May	1.07	4.00 ^{12A}
June	1.65	3.70
July	1.83	4.20 ^{12A}
August	2.31	4.60 ^{12A}
September	1.75	3.90 ^{12A}
October	1.81	3.80
November	1.42	3.70
December	1.98	3.80
2025	1.63	6.20^{12A}

A review of flow information for the reporting period indicates:

- ^{12A}January to May and July to September, 2025 – maximum flowrate exceedances were a result of instantaneous at well pump starts and for a short duration. The average monthly flowrates for each reporting month were below the allowable maximum flow rate (3.80 L/sec) for Well #4.

Table 13. Combined Well (Well #1, Well #2, Well #3 and Well #4) Annual and Monthly Flow and Annual Volume for 2025

Combined Well Flow (Well #1, Well #2, Well #3 and Well #4)					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	313.28	20.34%	354.62	23.03%	9,711.53
February	279.63	18.16%	330.25	21.44%	7,829.52
March	291.99	18.96%	596.12	38.71%	9,051.71
April	293.70	19.07%	737.39	47.88%	8,811.12
May	353.46	22.95%	1,027.73	66.74%	10,957.12
June	560.60	36.40%	846.26	54.95%	16,817.92
July	786.58	51.08%	1,020.93	66.29%	24,384.02
August	660.54	42.89%	987.00	64.09%	20,476.60
September	476.54	30.94%	619.48	40.23%	14,296.09
October	379.17	24.62%	545.64	35.43%	11,754.19
November	308.63	20.04%	463.70	30.11%	9,258.98
December	291.54	18.93%	358.07	23.25%	9,037.81
2025	417.50	27.11%	1,027.73	66.74%	152,386.61

A review of the flow information for the reporting period indicates that the system operated within the PTTW maximum allowable daily taking of water from the taking of water from all wells identified (1,540 m³/day).