

DEL TREND PUMP HOUSE

2024 SCHEDULE 22 SUMMARY REPORT

DEL TREND
DRINKING WATER
SYSTEM

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

Drinking-Water System Number:	220009149
Drinking-Water System Name:	Del Trend Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Springwater
Drinking-Water System Category:	Large 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 May 15, 2024 for the period covering May 12, 2023 to May 15, 2024. On July 3, 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 a 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 Del Trend Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 10) 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):	128-105 (Issue Number: 3)
Allowable Rated Capacity:	1,074 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					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	89.28	8.31%	100.44	9.35%	2767.74
February	87.09	8.11%	101.58	9.46%	2525.55
March	85.65	7.97%	97.00	9.03%	2655.00
April	106.84	9.95%	546.00	50.84%	3205.11
May	138.97	12.94%	190.00	17.69%	4308.00
June	235.27	21.91%	391.00	36.41%	7058.00
July	259.87	24.20%	384.00	35.75%	8056.00
August	304.32	28.34%	573.00	53.35%	9434.00
September	252.13	23.48%	326.00	30.35%	7564.00
October	134.45	12.52%	550.00	51.21%	4168.00
November	85.47	7.96%	100.00	9.31%	2564.00
December	94.32	8.78%	119.00	11.08%	2924.00
2024	156.14	14.54%	573.00	53.35%	57229.40

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (1,074 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, Table 7 and Table 9. 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):	5660-APNHY9
Allowable Maximum Raw Water Volume - Well #1:	466.56 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #1:	324 L/min (5.4 L/sec)
Allowable Maximum Volume of Raw Water - Well #2:	466.56 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #2:	324 L/min (5.4 L/sec)
Allowable Maximum Volume of Raw Water - Well #3:	786.24 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #3:	546 L/min (9.1 L/sec)
Allowable Maximum Daily Taking of Water from Any Combination of Wells:	1,074.00 m ³ /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 ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	11.86	2.54%	50.00	10.72%	83.00
February	39.10	8.38%	49.00	10.50%	1134.00
March	6.33	1.36%	17.00	3.64%	38.00
April	47.03	10.08%	223.00	47.80%	1364.00
May	64.97	13.92%	103.00	22.08%	2014.00
June	66.86	14.33%	178.00	38.15%	468.00
July	122.20	26.19%	185.00	39.65%	3666.00
August	18.83	4.04%	91.00	19.50%	113.00
September	116.14	24.89%	157.00	33.65%	3252.00
October	55.32	11.86%	152.00	32.58%	1383.00
November	37.92	8.13%	48.00	10.29%	948.00
December	3.02	0.65%	4.20	0.90%	15.12
2024	49.13	10.53%	223.00	47.80%	14478.12

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 (466.56 m³/day).

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

Raw Flowrate – Well #1	
Timeframe	Maximum Flowrate (L/sec)
January	5.11
February	5.38
March	5.10
April	5.87 ^{5A}
May	5.04
June	4.99
July	5.51 ^{5B}
August	4.91
September	4.98
October	5.50 ^{5C}
November	5.80 ^{5D}
December	5.36
2024	5.87^{5A}

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 (5.4 L/sec), with the exception of:

- ^{5A}April 16, 2024 - Flowrate exceedances were of very short duration and were a result of well pump start-up
- ^{5B}July 8, 2024 - Flowrate exceedances were of very short duration and were a result of well pump start-up
- ^{5C}October 25, 2024 - Flowrate exceedances were of very short duration and were a result of well pump start-up
- ^{5D}November 19, 2024 - Flowrate exceedances were of very short duration and were a result of well pump start-up

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

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	11.57	2.48%	49.00	10.50%	81.00
February	38.41	8.23%	48.00	10.29%	1114.00
March	6.33	1.36%	17.00	3.64%	38.00
April	46.90	10.05%	225.00	48.23%	1360.00
May	64.19	13.76%	102.00	21.86%	1990.00

Raw Water Flow – Well #2					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
June	66.14	14.18%	176.00	37.72%	463.00
July	120.87	25.91%	183.00	39.22%	3626.00
August	18.50	3.97%	90.00	19.29%	111.00
September	115.43	24.74%	156.00	33.44%	3232.00
October	52.80	11.32%	153.00	32.79%	1320.00
November	37.48	8.03%	49.00	10.50%	937.00
December	3.05	0.65%	4.30	0.92%	15.26
2024	48.47	10.39%	225.00	48.23%	14287.26

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 (466.56 m³/day).

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

Raw Water Flowrate – Well #2	
Timeframe	Maximum Flowrate (L/sec)
January	4.51
February	4.57
March	4.60
April	4.31
May	4.75
June	4.25
July	4.87
August	4.19
September	4.19
October	4.73
November	4.90
December	4.90
2024	4.90

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 (5.4 L/sec).

Table 8. Raw Water (Well #3) Monthly Average, Maximum Flow and Total Volume for 2024

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	80.37	10.22%	106.00	13.48%	2411.00
February	9.80	1.25%	30.00	3.82%	49.00
March	76.90	9.78%	102.00	12.97%	2384.00
April	28.88	3.67%	106.00	13.48%	231.00
May	6.00	0.76%	10.00	1.27%	24.00
June	209.89	26.70%	353.00	44.90%	5877.00
July	77.17	9.81%	249.00	31.67%	463.00
August	290.77	36.98%	454.00	57.74%	9014.00
September	132.17	16.81%	303.00	38.54%	793.00
October	105.85	13.46%	165.00	20.99%	1376.00
November	75.18	9.56%	204.00	25.95%	827.00
December	85.84	10.92%	107.00	13.61%	2661.00
2024	98.23	12.49%	454.00	57.74%	26110.00

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 #3 (786.24 m³/day).

Table 9. Raw Water (Well #3) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #3	
Timeframe	Maximum Flowrate (L/sec)
January	8.32
February	8.31
March	8.30
April	8.10
May	8.07
June	8.14
July	8.15
August	8.06
September	8.00
October	8.35
November	8.50
December	8.50
2024	8.50

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 #3 (9.1 L/sec).

Table 10. Combined Well (Well #1, Well #2 & Well #3) Annual and Monthly Flow and Total Volume for 2024

Combined Well Flow (Well #1, Well #2 & Well #3)					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	83.06	7.73%	106.00	9.87%	2575.00
February	79.21	7.38%	97.00	9.03%	2297.00
March	79.35	7.39%	102.00	9.50%	2460.00
April	98.50	9.17%	554.00	51.58%	2955.00
May	129.94	12.10%	205.00	19.09%	4028.00
June	226.93	21.10%	364.00	33.89%	6808.00
July	250.16	23.30%	368.00	34.26%	7755.00
August	298.00	27.70%	456.00	42.46%	9238.00
September	242.57	22.60%	313.00	29.14%	7277.00
October	131.58	12.30%	443.00	41.25%	4079.00
November	90.40	8.42%	275.00	25.61%	2712.00
December	86.82	8.08%	108.00	10.06%	2691.38
2024	149.71	13.90%	554.00	51.58%	54875.38

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 (1,074.00 m³/day).