

2024 SCHEDULE 22 SUMMARY REPORT

MIDHURST
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:	220005474
Drinking-Water System Name:	Midhurst 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 16, 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
Non-compliance with PTTW #1847-AGEJMN- loss of continuous well level monitoring at Greenpine Pumphouse – Well #4 <ul style="list-style-type: none"> As per the PTTW; The Permit Holder shall install and maintain a continuous water level recorder in each of the production wells On October 22, 2024 OCWA observed that the well level 	September 18 to December 10, 2024	<ul style="list-style-type: none"> OCWA began manually measuring the well level with a piezometer and recording the results on a weekly basis and continued to do so until the probe was replaced. A new well probe was ordered and installed on December 10, 2024. Data began recording as required.

monitoring probe to Well 4 had stopped recording values since September 18th, 2024.		<ul style="list-style-type: none"> • Verbal and written notification of non-compliance was provided to the Ministry on October 22 and 23, 2024 respectively. • No further actions required.
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For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Midhurst Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 14) 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):	128-108 (Issue Number: 4)
Allowable Rated Capacity - Idlewood (Well No. 2 & Well No. 3):	3,498 m ³ /day
Allowable Rated Capacity - Greenpine (Well No. 4):	1,958 m ³ /day
Allowable Rated Capacity - Carson Road (Well No. 5):	1,642 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 – Idlewood (Well No. 2 & Well No. 3)^{3A}

Treated Water Flow – Idlewood (Well No. 2 & Well No. 3)					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	311.16	8.90%	416.00	11.89%	9646.00
February	297.00	8.49%	407.00	11.64%	8613.00

Treated Water Flow – Idlewood (Well No. 2 & Well No. 3)					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
March	314.35	8.99%	502.00	14.35%	9745.00
April	356.40	10.19%	1158.00	33.10%	10692.00
May	626.42	17.91%	1227.00	35.08%	19419.00
June	766.30	21.91%	1125.00	32.16%	22989.00
July	779.71	22.29%	1087.00	31.07%	24171.00
August	854.81	24.44%	1069.00	30.56%	26499.00
September	843.90	24.13%	1768.00	50.54%	25317.00
October	418.06	11.95%	564.00	16.12%	12960.00
November	314.04	8.98%	408.30	11.67%	9421.07
December	342.00	9.78%	521.00	14.89%	10328.67
2024	518.68	14.83%	1768.00	50.54%	189800.74

^{3A}Treated water flow data for Idlewood Well Supply & Water Treatment Plant is based off the combined raw water flow data for Well No. 2 and Well No. 3. 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 the 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 (3,498 m³/day), for the maximum treated volume of treated water that flows from the Idlewood treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024 - Greenpine (Well No. 4):

Treated Water Flow – Greenpine (Well No. 4)					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
January	49.23	2.51%	66.00	3.37%	1526.00
February	45.62	2.33%	65.00	3.32%	1323.00
March	45.42	2.32%	71.00	3.63%	1408.00
April	45.67	2.33%	58.00	2.96%	1370.00
May	77.29	3.95%	164.00	8.38%	541.00
June	96.86	4.95%	148.00	7.56%	1937.20
July	116.71	5.96%	197.00	10.06%	3618.00
August	125.94	6.43%	250.00	12.77%	3904.00
September	116.03	5.93%	182.00	9.30%	3481.00
October	65.97	3.37%	92.00	4.70%	2045.00
November	52.10	2.66%	68.01	3.47%	1562.96

Treated Water Flow – Greenpine (Well No. 4)					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
December	51.42	2.63%	79.00	4.03%	1594.00
2024	74.02	3.78%	250.00	12.77%	24310.16

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (1,958 m³/day), for the maximum treated volume of treated water that flows from the Greenpine treatment subsystem to the distribution system.

Table 5. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024 – Carson Road (Well No. 5)^{5A}:

Treated Water Flow – Carson Road (Well No. 5)					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
January	150.81	9.18%	203.00	12.36%	4675.00
February	147.97	9.01%	199.00	12.12%	4291.00
March	141.37	8.61%	167.00	10.17%	4241.00
April	160.03	9.75%	207.00	12.61%	4801.00
May	293.53	17.88%	459.00	27.95%	8806.00
June	381.13	23.21%	560.00	34.10%	11434.00
July	383.26	23.34%	533.00	32.46%	11881.00
August	433.87	26.42%	768.00	46.77%	13450.00
September	352.67	21.48%	492.00	29.96%	10580.00
October	197.48	12.03%	275.00	16.75%	6122.00
November	162.37	9.89%	231.00	14.07%	4871.00
December	170.45	10.38%	248.00	15.10%	5284.00
2024	247.91	15.10%	768.00	46.77%	90436.00

^{5A}Treated water flow and flowrate data for Carson Road Well Supply & Water Treatment Plant is based off the raw water flow and flowrate data from Well No. 5. 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 the 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 (1,642 m³/day), for the maximum treated volume of treated water that flows from the Carson Road treatment subsystem to the distribution system.

A summary of flowrates of water that flows into the treatment system can be found in Table 7, Table 9, Table 11 and Table 13. 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):	1847-AGEJMN
Allowable Maximum Raw Water Volume – Idlewood Well No. 2:	619.00 m ³ /day
Allowable Maximum Raw Water Flowrate – Idlewood Well No. 2:	430 L/min (7.17 L/sec)
Allowable Maximum Raw Water Volume – Idlewood Well No. 3:	2,880.00 m ³ /day
Allowable Maximum Raw Water Flowrate - Idlewood Well No. 3:	2,000 L/min (33.33 L/sec)
Allowable Maximum Volume of Raw Water – Greenpine Well No. 4:	1,958.00 m ³ /day
Allowable Maximum Raw Water Flowrate – Greenpine Well No. 4:	1,360 L/min (22.67 L/sec)
Allowable Maximum Volume of Raw Water – Carson Well No. 5:	1,641.60 m ³ /day
Allowable Maximum Raw Water Flowrate – Carson Well No. 5:	1,140 L/min (19.00 L/sec)
Allowable Maximum Daily Taking of Water from Any Combination of Wells:	6,479 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 6. Raw Water (Idlewood Well No. 2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Idlewood (Well No. 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	66.52	10.75%	89.00	14.38%	2062.00
February	63.48	10.26%	87.00	14.05%	1841.00
March	67.48	10.90%	108.00	17.45%	2092.00
April	76.77	12.40%	248.00	40.06%	2303.00
May	134.71	21.76%	262.00	42.33%	4176.00
June	164.97	26.65%	242.00	39.10%	4949.00
July	168.32	27.19%	234.00	37.80%	5218.00
August	184.45	29.80%	231.00	37.32%	5718.00
September	182.20	29.43%	381.00	61.55%	5466.00
October	90.58	14.63%	122.00	19.71%	2808.00
November	67.76	10.95%	88.66	14.32%	2032.78
December	68.36	11.04%	95.00	15.35%	1845.67
2024	111.30	17.98%	381.00	61.55%	40511.45

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 No. 2 (619.00 m³/day).

Table 7. Raw Water (Idlewood Well No. 2) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Idlewood Well No. 2	
Timeframe	Maximum Flowrate (L/sec)
January	7.05
February	7.07
March	7.09
April	7.01
May	7.02
June	6.95
July ^{7B}	6.94
August ^{7B}	6.93
September ^{7B}	6.87
October	6.98
November	6.98
December	7.00
2024	7.07

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 No. 2 (7.17 L/sec).

Table 8. Raw Water (Idlewood Well No. 3) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Idlewood Well No. 3					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	244.65	8.49%	327.00	11.35%	7584.00
February	233.52	8.11%	320.00	11.11%	6772.00
March	246.87	8.57%	394.00	13.68%	7653.00
April	279.63	9.71%	910.00	31.60%	8389.00
May	491.71	17.07%	965.00	33.51%	15243.00
June	601.33	20.88%	883.00	30.66%	18040.00
July	611.39	21.23%	853.00	29.62%	18953.00
August	670.35	23.28%	838.00	29.10%	20781.00
September	661.70	22.98%	1387.00	48.16%	19851.00
October	327.48	11.37%	442.00	15.35%	10152.00
November	246.28	8.55%	319.64	11.10%	7388.29

Raw Water Flow – Idlewood Well No. 3					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
December	273.65	9.50%	426.00	14.79%	8483.00
2024	407.38	14.15%	1387.00	48.16%	149289.29

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 No. 3 (2,880.00 m³/day).

Table 9. Raw Water (Idlewood Well No. 3) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Idlewood Well No. 3	
Timeframe	Maximum Flowrate (L/sec)
January	24.06
February	24.05
March	24.01
April	24.03
May	23.90
June	23.94
July	23.77
August	23.65
September	23.58
October	23.68
November	23.73
December	23.80
2024	24.06

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 No. 3 (33.33 L/sec).

Table 10. Raw Water (Greenpine Well No. 4) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Greenpine Well No. 4					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	37.52	1.92%	53.00	2.71%	1163.00
February	36.48	1.86%	54.00	2.76%	1058.00
March	36.29	1.85%	53.00	2.71%	1125.00
April	36.93	1.89%	55.00	2.81%	1108.00
May	66.29	3.39%	136.00	6.95%	464.00

Raw Water Flow – Greenpine Well No. 4					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
June	76.90	3.93%	134.00	6.84%	1768.61
July	106.58	5.44%	204.00	10.42%	3304.00
August	117.61	6.01%	246.00	12.56%	3646.00
September	108.90	5.56%	169.00	8.63%	3267.00
October	55.39	2.83%	80.00	4.09%	1717.00
November	44.73	2.28%	57.00	2.91%	1341.85
December	48.00	2.45%	82.00	4.19%	1488.00
2024	64.30	3.28%	246.00	12.56%	21450.46

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 Greenpine Well No. 4 (1,958 m³/day).

Table 11. Raw Water (Greenpine Well No. 4) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Greenpine Well No. 4	
Timeframe	Maximum Flowrate (L/sec)
January	20.20
February	20.27
March	21.40
April	19.71
May	19.49
June	19.59
July	19.54
August	19.48
September	25.00 ^{11A}
October	19.34
November	19.37
December	19.70
2024	25.00^{11A}

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable raw water flowrate for Greenpine Well No. 4 (22.67 L/sec) with the exception of:

- ^{11A} September 12, 2024 – Flowrate exceedances were of short duration and were a result of reservoir flushing.

Table 12. Raw Water (Carson Rd. Well No. 5) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Carson Rd. Well No. 5					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	150.81	9.18%	203.00	12.36%	4675.00
February	147.97	9.01%	199.00	12.12%	4291.00
March	141.37	8.61%	167.00	10.17%	4241.00
April	160.03	9.75%	207.00	12.61%	4801.00
May ^{12A}	293.53	17.88%	459.00	27.95%	8806.00
June	381.13	23.21%	560.00	34.10%	11434.00
July	383.26	23.34%	533.00	32.46%	11881.00
August	433.87	26.42%	768.00	46.77%	13450.00
September	352.67	21.48%	492.00	29.96%	10580.00
October	197.48	12.03%	275.00	16.75%	6122.00
November	162.37	9.89%	231.00	14.07%	4871.00
December	170.45	10.38%	248.00	15.10%	5284.00
2024	247.91	15.10%	768.00	46.77%	90436.00

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 No. 5 (1,641.60 m³/day).

Table 13. Raw Water (Carson Rd. Well No. 5) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Carson Rd. Well No. 5	
Timeframe	Maximum Flowrate (L/sec)
January	15.51
February	15.84
March	15.70
April	16.02
May	15.72
June	15.71
July	15.61
August	15.46
September	15.68
October	15.54
November	15.57
December	15.60
2024	16.02

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 No. 5 (19.0 L/sec).

Table 14. Combined Well (Well No. 2, Well No. 3, Well No. 4, and Well No. 5) Annual and Monthly Flow and Total Volume for 2024

Combined Well Flow (Well No. 2, Well No. 3, Well No. 4, and Well No. 5)					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
January	499.48	7.71%	670.00	10.34%	15484.00
February	481.45	7.43%	647.00	9.99%	13962.00
March	487.45	7.52%	559.00	8.63%	15111.00
April	553.37	8.54%	1249.00	19.28%	16601.00
May	774.83	11.96%	1310.00	20.22%	4649.00
June	1207.13	18.63%	1739.00	26.84%	32592.61
July	1269.55	19.59%	1715.00	26.47%	39356.00
August	1406.29	21.71%	1835.00	28.32%	43595.00
September	1305.47	20.15%	1937.00	29.90%	39164.00
October	670.94	10.36%	919.00	14.18%	20799.00
November	521.13	8.04%	663.99	10.25%	15633.92
December	551.63	8.51%	756.00	11.67%	17100.67
2024	810.73	12.51%	1937.00	29.90%	274048.20

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 (6,479 m³/day).