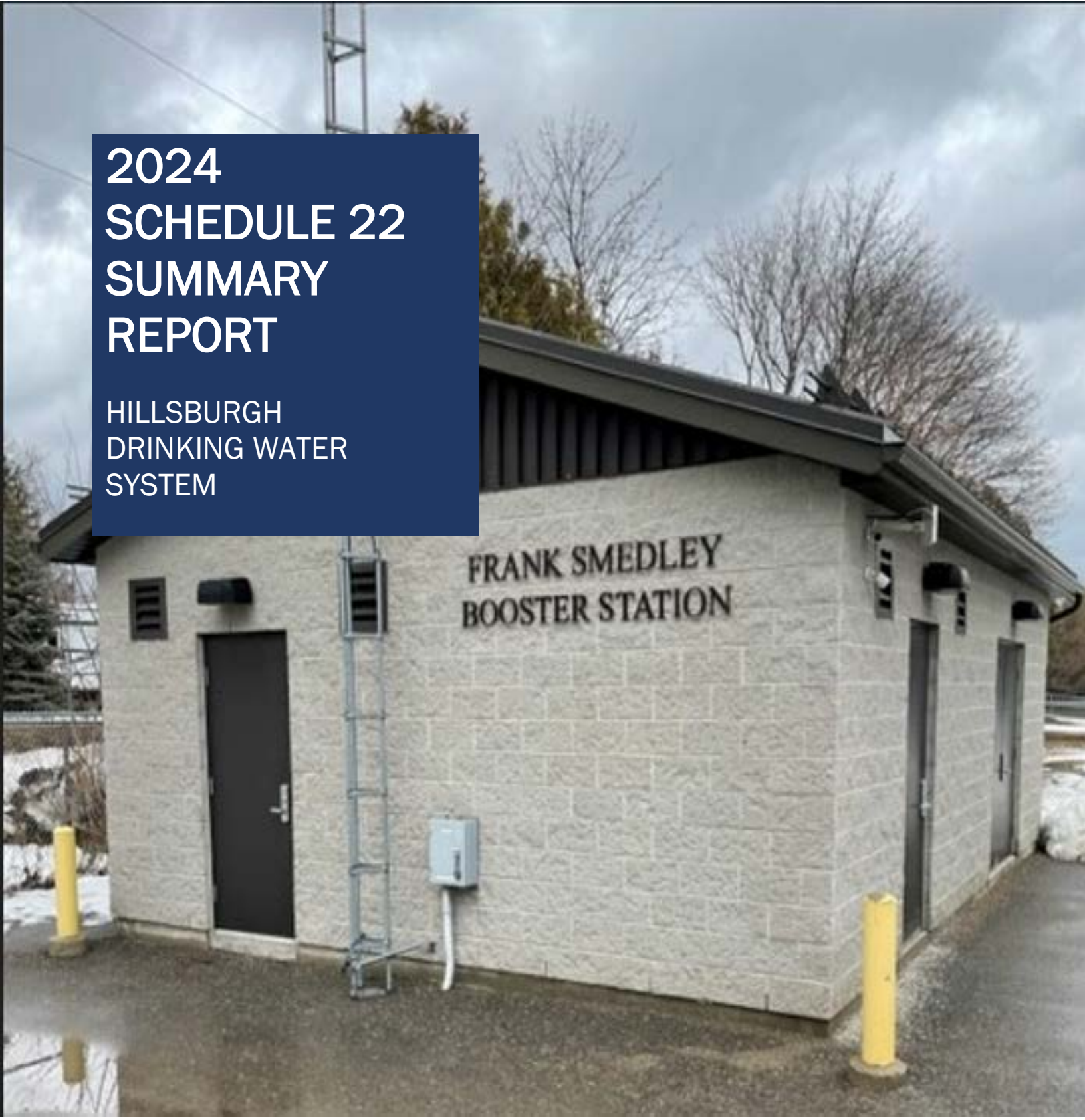
2024 SCHEDULE 22 SUMMARY REPORT

HILLSBURGH DRINKING WATER SYSTEM



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

Prepared for the Corporation of the Town of Erin by the Ontario Clean Water Agency

TOWN OF ERIN

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

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:	220007285
Drinking-Water System Name:	Hillsburgh Drinking Water System
Drinking-Water System Owner:	The Corporation of the Town of Erin
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 September 18, 2024 for the period covering November 10, 2023 to October 24, 2024. On October 24, 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 Hillsburgh Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 12) 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):	102-102 (Issue Number: 4)
Allowable Rated Capacity Hillsburgh Heights Well:	1,011 m^3/day
Allowable Rated Capacity Glendevon Well:	654 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 (Hillsburgh Heights Well) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow – Hillsburgh Heights Well					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January	56.69	5.15%	111.39	10.12%	1757.49
February	49.12	4.46%	62.72	5.70%	1424.52
March	66.79	6.07%	126.50	11.49%	2070.35
April	69.93	6.35%	88.28	8.02%	2097.85
May	71.97	6.54%	180.68	16.41%	2230.98
June	70.66	6.42%	120.87	10.98%	2119.82
July	71.51	6.49%	137.98	12.53%	2216.67
August	96.72	8.78%	460.76	41.85%	2998.24
September	62.23	5.65%	100.72	9.15%	1866.93
October	50.29	4.57%	83.63	7.60%	1558.99
November	98.02	8.90%	582.06	52.87%	2940.51
December	75.61	6.87%	100.59	9.14%	2344.05
2024	**69.96**	**6.35%**	**582.06**	**52.87%**	**25626.40**

Table 4. Treated Water (Glendevon Well) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow – Glendevon Well					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January	264.42	40.43%	291.69	44.60%	8197.16
February	280.42	42.88%	311.72	47.66%	8132.13
March	296.11	45.28%	314.45	48.08%	9179.42
April	289.63	44.29%	325.34	49.75%	8689.03
May	284.01	43.43%	361.61	55.29%	8804.44
June	273.31	41.79%	305.22	46.67%	8199.39
July	292.66	44.75%	324.48	49.61%	9072.48
August	258.58	39.54%	372.68	56.98%	8015.86
September	249.54	38.16%	283.00	43.27%	7486.10
October	249.73	38.19%	266.12	40.69%	7741.74
November	248.55	38.00%	328.61	50.25%	7456.56
December	304.01	46.48%	399.09	61.02%	9424.21
2024	**274.25**	**41.93%**	**399.09**	**61.02%**	**100398.53**

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, 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 subsystem(s) can be found in Table 8 and Table 10. 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.

Table 5. Treated Water (Hillsburgh Heights Well) Annual and Monthly Average and Maximum Flowrates for 2024

Treated Water Flowrate – Hillsburgh Heights Well		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	1.00	5.65
February	1.00	5.89
March	2.00	33.33
April	2.00	47.00
May	2.00	34.00
June	2.00	33.76
July	2.00	41.00
August	2.00	40.00
September	1.00	43.00

Treated Water Flowrate – Hillsburgh Heights Well		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
October	1.00	10.00
November	2.00	11.00
December	2.00	32.00
2024	**1.67**	**47.00**

Table 6. Treated Water (Glendevon Well) Annual and Monthly Average and Maximum Flowrates for 2024

Treated Water Flowrate – Glendevon Well		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
January	186.00	289.59
February	196.00	312.72
March	207.00	355.92
April	202.00	814.00
May	202.00	579.00
June	191.00	877.00
July	204.00	664.00
August	188.00	736.00
September	173.00	544.00
October	175.00	373.00
November	189.00	742.00
December	212.00	767.00
2024	**193.75**	**877.00**

2.2 Raw Water

Permit to Take Water Number (PTTW):	0035-CH4ET4
Allowable Maximum Raw Water Volume – Well H2:	982.00 m^3/day
Allowable Maximum Raw Water Flowrate - Well H2:	682 L/min

Permit to Take Water Number (PTTW):	5028-CN2Q9Z
Allowable Maximum Raw Water Volume – Well H3:	655.00 m^3/day
Allowable Maximum Raw Water Flowrate - Well H3:	454 L/min
Allowable Maximum Raw Water Volume – Well H4:	655.00 m^3/day
Allowable Maximum Raw Water Flowrate - Well H4:	454 L/min

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 7. Raw Water (Well H2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well H2					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	51.54	5.25%	269.75	27.47%	1597.85
February	52.19	5.31%	230.98	23.52%	1513.47
March	71.44	7.28%	246.07	25.06%	2214.71
April	68.76	7.00%	234.70	23.90%	2062.69
May	69.47	7.07%	252.89	25.75%	2153.47
June	66.78	6.80%	222.65	22.67%	2003.50
July	73.39	7.47%	232.86	23.71%	2275.20
August	82.41	8.39%	328.92	33.49%	2554.69
September	58.42	5.95%	224.09	22.82%	1752.67
October	53.46	5.44%	234.89	23.92%	1657.27
November	75.81	7.72%	507.98	51.73%	2274.28
December	66.75	6.80%	214.44	21.84%	2069.12
2024	**65.87**	**6.71%**	**507.98**	**51.73%**	**24128.92**

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW 0035-CH4ET4 for Well H2.

Table 8. Raw Water (Well H2) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well H2		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
January	443.00	632.00
February	425.00	637.00
March	438.00	628.00
April	442.00	609.00
May	388.00	593.00
June	335.00	570.00
July	315.00	569.00
August	282.00	587.00
September	341.00	580.00
October	426.00	577.00
November	356.00	469.00
December	393.00	558.00
2024	**382.00**	**637.00**

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW 0035-CH4ET4 for Well H2.

Table 9. Raw Water (Well H3) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well H3					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	262.53	40.08%	289.24	44.16%	8138.41
February	277.87	42.42%	296.43	45.26%	8058.09
March	292.32	44.63%	309.18	47.20%	9062.07
April	287.18	43.84%	320.68	48.96%	8615.48
May	285.24	43.55%	409.15	62.47%	8842.39
June	269.18	41.10%	305.42	46.63%	8075.26
July	286.77	43.78%	345.59	52.76%	8889.73
August	254.42	38.84%	427.35	65.24%	7887.09
September	247.61	37.80%	326.00	49.77%	7428.33
October	244.51	37.33%	266.02	40.61%	7579.67
November	242.69	37.05%	350.78	53.55%	7280.63
December	298.89	45.63%	369.37	56.39%	9265.74
2024	**270.77**	**41.34%**	**427.35**	**65.24%**	**99122.89**

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW 5028-CN2Q9Z for Well H3.

Table 10. Raw Water (Well H3) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well H3		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
January	379.00	415.50
February	374.00	417.70
March	381.00	418.30
April	380.00	418.70
May	373.00	416.80
June	369.00	406.50
July	368.00	408.00
August	354.00	396.80
September	366.00	400.50
October	363.00	397.00
November	346.00	394.30

Raw Water Flowrate – Well H3		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
December	352.00	386.90
2024	**367.08**	**418.70**

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW 5028-CN2Q9Z for Well H3.

Table 11. Raw Water (Well H4) Monthly Average, Maximum Flow and Total Volume for 2024[11A]

Raw Water Flow – Well H4					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	N/A	N/A	N/A	N/A	N/A
February	N/A	N/A	N/A	N/A	N/A
March	N/A	N/A	N/A	N/A	N/A
April	N/A	N/A	N/A	N/A	N/A
May	N/A	N/A	N/A	N/A	N/A
June	N/A	N/A	N/A	N/A	N/A
July	N/A	N/A	N/A	N/A	N/A
August	N/A	N/A	N/A	N/A	N/A
September	N/A	N/A	N/A	N/A	N/A
October	N/A	N/A	N/A	N/A	N/A
November	N/A	N/A	N/A	N/A	N/A
December	N/A	N/A	N/A	N/A	N/A
2024	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

[11A] Well H4 was abandoned by the Town of Erin and Ainley Engineering when it was discovered that it was not viable and interfered with other Wells. The Owner is actively seeking an alternative to H4.

Table 12. Raw Water (Well H4) Annual and Monthly Average and Maximum Flowrates for 2024[12A]

Raw Water Flowrate – Well H4		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
January	N/A	N/A
February	N/A	N/A
March	N/A	N/A
April	N/A	N/A
May	N/A	N/A

Raw Water Flowrate – Well H4		
Timeframe	**Average Flowrate (L/min)**	**Maximum Flowrate (L/min)**
June	N/A	N/A
July	N/A	N/A
August	N/A	N/A
September	N/A	N/A
October	N/A	N/A
November	N/A	N/A
December	N/A	N/A
2024	**N/A**	**N/A**

[12A] Well H4 was abandoned by the Town of Erin and Ainley Engineering when it was discovered that it was not viable and interfered with other Wells. The Owner is actively seeking an alternative to H4.