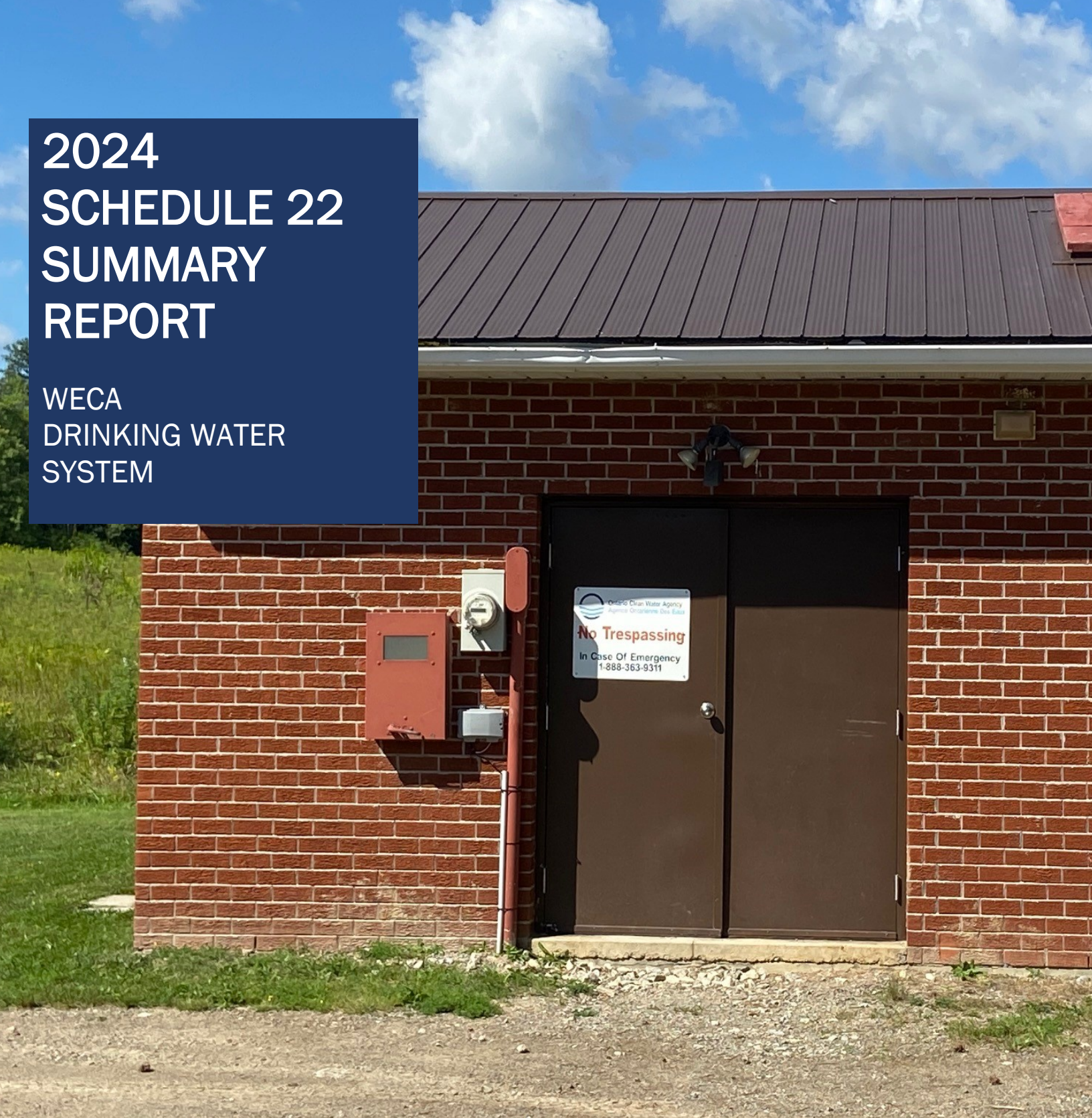


2024 SCHEDULE 22 SUMMARY REPORT

WECA
DRINKING WATER
SYSTEM



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

Prepared for the Corporation of the Township of Adjala-Tosorontio 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:	220010048
Drinking-Water System Name:	Weca Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
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 November 20, 2024 for the period covering December 21, 2023 to November 20, 2024. On February 12, 2025, the Inspection Report was issued and an Inspection Summary Rating Record (IRR) of 95.77% 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
<p>Non-compliance with O.Reg. 170/03, Schedule 16-6(1) –immediate verbal notification requirements of adverse water quality incidents were not met.</p> <ul style="list-style-type: none"> On November 29, 2024 during data review, it was noted that the Running Annual Average (RAA) for Trihalomethane (THM) exceeded the Maximum Acceptable Concentration (100 µg/L), for the period of July 2023 to April 2024. The notification of exceedance was not immediately made within 7 days, as required under the regulations. 	N/A	<ul style="list-style-type: none"> On November 29, 2024 upon discovery of the exceedance, OCWA made immediate verbal notifications to the MoH and SAC- AWQI #166970 was assigned. More details on the AWQI can be found in the 2024 Weca DWS Section 11 Annual Report. Written notification and resolution were provided to SAC, MECP, and the MOH on December 3, 2024. Moving forward, OCWA will review the data in a timelier manner following the receipt of laboratory results from the external lab to ensure that any AWQIs are reported within the 7 day required window. No further actions required

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 Weca 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):	097-101 (Issue Number: 5)
Allowable Rated Capacity for Well No. 1 Pumphouse:	261 m ³ /day
Allowable Rated Capacity for Well No. 2 Pumphouse:	655 m ³ /day
Allowable Rated Capacity for Well No. 3 Pumphouse (Loretto Heights):	137 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 Well No. 1 Pumphouse in 2024

Treated Water Flow- Well No. 1 Pumphouse ^{3A}					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	26.08	9.99%	29.79	11.41%	808.47
February	25.63	9.82%	31.05	11.90%	743.33
March	26.51	10.16%	49.74	19.06%	821.90
April	25.90	9.92%	31.39	12.03%	776.94
May	29.49	11.30%	46.10	17.66%	914.05
June	42.36	16.23%	152.85	58.56%	1,270.87
July	28.32	10.85%	40.15	15.38%	877.94
August	27.25	10.44%	38.15	14.62%	844.74
September	30.28	11.60%	42.46	16.27%	908.54
October	22.60	8.66%	34.29	13.14%	655.50
November	13.96	5.35%	62.34	23.89%	418.68
December	19.76	7.57%	60.50	23.18%	612.58
2024	26.47	10.16%	152.85	58.56%	9,653.54

^{3A}Treated water flow and flowrate data for Weca Well No.1 Pumphouse is based off the raw water flow and flowrate data for Well #1: PW1. There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

A review of flow information for the reporting period indicates that Weca Well No. 1 Pumphouse operated within the rated capacity specified in the MDWL (261 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 Weca Well No. 1 Pumphouse treatment subsystem can be found in Table 7. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into the treatment subsystem at Weca Well No. 1 Pumphouse.

Table 4. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for Well No. 2 Pumphouse in 2024

Treated Water Flow - Well No. 2 Pumphouse ^{4A}					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	135.79	20.73%	164.46	25.11%	4,209.46
February	130.89	19.98%	174.84	26.69%	3,795.68
March	133.86	20.44%	223.65	34.15%	4,149.56
April	129.14	19.72%	185.97	28.39%	3,874.10
May	154.00	23.51%	275.01	41.99%	4,773.93
June	163.53	24.97%	256.68	39.19%	4,905.95
July	163.09	24.90%	232.87	35.55%	5,055.80
August	155.59	23.75%	201.75	30.80%	4,823.27
September	164.28	25.08%	216.41	33.04%	4,928.35
October	139.33	21.27%	177.93	27.16%	4,179.88
November	132.22	20.19%	171.02	26.11%	3,966.51
December	144.76	22.10%	268.67	41.02%	4,487.49
2024	145.62	22.23%	275.01	41.99%	53,149.98

^{4A}Treated water flow and flowrate data for Weca Well No. 2 Pumphouse is based off the raw water flow and flowrate data for Well #2: PW2. There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

A review of flow information for the reporting period indicates that Weca Well No. 2 Pumphouse operated within the rated capacity specified in the MDWL (655 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 Weca Well No. 2 Pumphouse treatment subsystem can be found in Table 9. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into the treatment subsystem at Weca Well No. 2 Pumphouse.

Table 5. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for Well No. 3 (Loretto Heights) Pumphouse in 2024

Treated Water Flow- Well No. 3 (Loretto Heights) Pumphouse^{5A}					
Timeframe	Average Flow (m³/day)	Percent of Rated Capacity	Maximum Flow (m³/day)	Percent of Rated Capacity	Total Volume (m³)
January	0.00	0.00%	0.00	0.00%	0.00
February	0.00	0.00%	0.00	0.00%	0.00
March	0.00	0.00%	0.00	0.00%	0.00
April	0.00	0.00%	0.00	0.00%	0.00
May	0.00	0.00%	0.00	0.00%	0.00
June	0.00	0.00%	0.00	0.00%	0.00
July	0.00	0.00%	0.00	0.00%	0.00
August	0.00	0.00%	0.00	0.00%	0.00
September	0.00	0.00%	0.00	0.00%	0.00
October	0.00	0.00%	0.00	0.00%	0.00
November	0.00	0.00%	0.00	0.00%	0.00
December	0.00	0.00%	0.00	0.00%	0.00
2024	0.00	0.00%	0.00	0.00%	0.00

^{5A}Treated water flow and flowrate data for Loretto Heights Well No. 3 Pumphouse is based off the raw water flow and flowrate data for Well #3: PW3A. There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

Well No. 3 Pumphouse (Loretto Heights) has been offline since September 2022. No water from this well has been directed to the treatment or distribution system. The old supply well (PW1 Loretto Heights) is in the process of being decommissioned and a new well was drilled in 2023 (Well #3: PW3A). Anticipated startup of the new well and treatment system is in 2025.

A review of flow information for the reporting period indicates that the Weca Well No. 3 (Loretto Heights) Pumphouse operated within the rated capacity specified in the MDWL (137 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 Loretto Well No. 3 Pumphouse treatment subsystem can be found in Table 11. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into the treatment subsystem at Loretto Well No. 3 Pumphouse.

2.2 Raw Water

Permit to Take Water Number (PTTW):	3524-CUJJBW
Allowable Maximum Raw Water Volume – Well #1: PW1	260.60 m ³ /day
Allowable Maximum Raw Water Flowrate– Well #1: PW1	180 L/min (3.0 L/sec)
Allowable Maximum Raw Water Volume – Well #2: PW2	655.2 m ³ /day
Allowable Maximum Raw Water Flowrate– Well #2: PW2	455 L/min (7.58 L/sec)
Allowable Maximum Raw Water Volume – Well #3: PW3A	163.8 m ³ /day
Allowable Maximum Raw Water Flowrate– Well #3: PW3A	114 L/min (1.90 L/sec)

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 (Well #1: PW1) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #1: PW1					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	26.08	10.01%	29.79	11.43%	808.47
February	25.63	9.83%	31.05	11.91%	743.33
March	26.51	10.17%	49.74	19.09%	821.90
April	25.90	9.94%	31.39	12.05%	776.94
May	29.49	11.32%	46.10	17.69%	914.05
June	42.36	16.25%	152.85	58.65%	1,270.87
July	28.32	10.87%	40.15	15.41%	877.94
August	27.25	10.46%	38.15	14.64%	844.74
September	30.28	11.62%	42.46	16.29%	908.54
October	22.60	8.67%	34.29	13.16%	655.50
November	13.96	5.36%	62.34	23.92%	418.68
December	19.76	7.58%	60.50	23.22%	612.58
2024	26.47	10.16%	152.85	58.65%	9,653.54

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: PW1 (260.60 m³/day).

Table 7. Raw Water (Well #1: PW1) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #1 (PW1)		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	2.07	2.31
February	2.04	2.32
March	2.12	2.56
April	2.17	2.46
May	2.18	2.56
June	2.07	2.94
July	2.35	2.52
August	2.26	2.79
September	2.22	2.52
October	2.25	2.94
November	2.23	2.55
December	2.24	2.93
2024	2.18	2.94

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable raw water flowrate for Well #1: PW1 (3.0 L/sec).

Table 8. Raw Water (Well #2: PW2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #2: PW2					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	135.79	20.72%	164.46	25.10%	4,209.46
February	130.89	19.98%	174.84	26.68%	3,795.68
March	133.86	20.43%	223.65	34.13%	4,149.56
April	129.14	19.71%	185.97	28.38%	3,874.10
May	154.00	23.50%	275.01	41.97%	4,773.93
June	163.53	24.96%	256.68	39.18%	4,905.95
July	163.09	24.89%	232.87	35.54%	5,055.80
August	155.59	23.75%	201.75	30.79%	4,823.27
September	164.28	25.07%	216.41	33.03%	4,928.35
October	139.33	21.27%	177.93	27.16%	4,179.88
November	132.22	20.18%	171.02	26.10%	3,966.51
December	144.76	22.09%	268.67	41.01%	4,487.49
2024	145.62	22.23%	275.01	41.97%	53,149.98

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: PW2 (655.2 m³/day).

Table 9. Raw Water (Well #2: PW2) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #2: PW2		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	6.66	8.48 ^{9A}
February	6.71	9.00 ^{9A}
March	6.79	10.57 ^{9A}
April	6.82	11.62 ^{9A}
May	6.72	10.32 ^{9A}
June	5.68	11.51 ^{9A}
July	6.62	8.38 ^{9A}
August	6.70	18.45 ^{9A}
September	6.69	11.15 ^{9A}
October	6.63	9.90 ^{9A}
November	6.59	11.69 ^{9A}
December	6.64	11.53 ^{9A}
2024	6.64	18.45^{9A}

A review of flow information for the reporting period indicates that the system operated within the PTTW maximum allowable raw water flowrate for Well #2: PW2 (7.58 L/sec). There were instances where the system operated outside of the PTTW maximum allowable raw water flowrate for short durations of time due to:

- ^{9A}January to December, 2024 - brief well pump startups and distribution system flushing.
- It should be noted that the systems average flowrate was within the PTTW maximum allowable raw water flowrate for Well #2: PW2.

Table 10. Raw Water (Well #3: PW3A) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #3: PW3A ^{10A}					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	0.00	0.00%	0.00	0.00%	0.00
February	0.00	0.00%	0.00	0.00%	0.00
March	0.00	0.00%	0.00	0.00%	0.00
April	0.00	0.00%	0.00	0.00%	0.00
May	0.00	0.00%	0.00	0.00%	0.00
June	0.00	0.00%	0.00	0.00%	0.00

Raw Water Flow – Well #3: PW3A^{10A}					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
July	0.00	0.00%	0.00	0.00%	0.00
August	0.00	0.00%	0.00	0.00%	0.00
September	0.00	0.00%	0.00	0.00%	0.00
October	0.00	0.00%	0.00	0.00%	0.00
November	0.00	0.00%	0.00	0.00%	0.00
December	0.00	0.00%	0.00	0.00%	0.00
2024	0.00	0.00%	0.00	0.00%	0.00

^{10A}Well No. 3 Pumphouse and supply well has been offline since September 2022. No raw water was directed to the treatment or distribution system. The old supply well (PW1 Loretto Heights) is in the process of being decommissioned and a new well was drilled in 2023 (Well #3: PW3A). Anticipated startup of the new well and treatment system is in 2025.

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: PW3A (163.8 m³/day).

Table 11. Raw Water (Well #3: PW3A) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #3: PW1 Loretto Heights^{11A}		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.00	0.00
February	0.00	0.00
March	0.00	0.00
April	0.00	0.00
May	0.00	0.00
June	0.00	0.00
July	0.00	0.00
August	0.00	0.00
September	0.00	0.00
October	0.00	0.00
November	0.00	0.00
December	0.00	0.00
2024	0.00	0.00

^{11A}Well No. 3 Pumphouse and supply well has been offline since September 2022. No raw water was directed to the treatment or distribution system. The old supply well (PW1 Loretto Heights) is in the process of being decommissioned and a new well was drilled in 2023 (Well #3: PW3A). Anticipated startup of the new well and treatment system is in 2025.

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: PW3A (1.90 L/sec).