



# 2023 SECTION 22 SUMMARY REPORT

WALTER'S FALLS  
DRINKING WATER SYSTEM

For the period of:  
**JANUARY 1, 2023 TO DECEMBER 31, 2023**

Prepared for the Township of Chatsworth 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:

<b>Drinking-Water System Number:</b>	220007034
<b>Drinking-Water System Name:</b>	Walter's Falls Drinking Water System
<b>Drinking-Water System Owner:</b>	Township of Chatsworth
<b>Drinking-Water System Category:</b>	Small Municipal Residential
<b>Period being reported:</b>	January 1, 2023 – December 31, 2023

## 1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on February 15, 2023 for the period covering February 2, 2022 to February 15, 2023. On March 30, 2023 the Inspection Report was issued with a final inspection rating of 94.36%.

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 2022/2023 MECP Inspection Report**

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
The operations and maintenance manuals did not meet the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.	N/A	The O&M Manual was updated to include the appropriate standard operating procedures.
All changes to the system registration information were not provided within ten (10) days of the change.	N/A	The DWIS profiles were updated with the current contact information.
Measures were not in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit issued under Part V of the SDWA. As per conditions 16.2 (16.2.8, 16.2.9 and 16.2.10) and 16.4 of Schedule B to the MDWL, the owner is required to implement an "inspection	N/A	The below grade well inspection SOP was updated to include recommendations from the MECP on what triggers a well inspection. See attached Below Grade Well Inspection SOP with highlighted changes.

Drinking Water System Regulation: O. Reg 170/03  
 Schedule 22 Summary Report: January 1, 2023 to December 31, 2023  
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schedule" for all wells associated with the drinking water system and inspections must occur at some frequency.		
All continuous analysers were not calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.	N/A	The Chlorine Analyzer Verification SOP has been updated to explain the checksheets and the checksheets have been updated to include the recorded difference between the handheld and analyzer.

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 Walter's Falls Drinking Water System Annual Report (Section 11).

## 2. Assessment of Flowrates and Quantity of Water Supplied

The following tables summarize the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flow rates approved in the system’s approval, DWWP or MDWL.

### 2.1 Treated Water

<b>Municipal Drinking Water License (MDWL):</b>	241-101 (Issue Number: 4)
<b>Allowable Rated Capacity:</b>	624 m <sup>3</sup> /day
<b>Allowable Flowrate into Treatment System:</b>	N/A

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 2023**

Timeframe	Treated Water Flow				
	Average Flow (m <sup>3</sup> /day)	Percent of Rated Capacity	Maximum Flow (m <sup>3</sup> /day)	Percent of Rated Capacity	Total Volume (m <sup>3</sup> )
January	19.5	3.1%	29.5	4.7%	604
February	23.7	3.8%	51.7	8.3%	663
March	20.7	3.3%	28.9	4.6%	642
April	22.2	3.6%	45.7	7.3%	666
May	61.3	9.8%	94.7	15.2%	1,900
June	59.2	9.5%	94.8	15.2%	1,775
July	49.7	8.0%	72.2	11.6%	1,541
August	49.8	8.0%	64.0	10.3%	1,544
September	46.0	7.4%	55.2	8.8%	1,380
October	42.0	6.7%	54.5	8.7%	1,304
November	35.3	5.7%	43.5	7.0%	1,059
December	38.5	6.2%	70.2	11.3%	1,194
<b>2023</b>	<b>39.1</b>	<b>6.3%</b>	<b>94.8</b>	<b>15.2%</b>	<b>14,269</b>

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.

**Table 4. Treated Water Annual and Monthly Average and Maximum Flowrates for 2023**

Timeframe	Treated Water Flowrate	
	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.22	8.60
February	0.27	8.22
March	0.24	5.95
April	0.26	6.82
May	0.50	6.78
June	0.45	6.56
July	0.38	6.63
August	0.37	6.36
September	0.36	10.84
October	0.31	4.59
November	0.25	6.15
December	0.28	29.58 <sup>4a</sup>
<b>2023</b>	<b>0.32</b>	<b>29.58<sup>4a</sup></b>

<sup>4a</sup>Due to distribution system flushing, CT met at all time.

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. A summary of flowrates of water that flows into the treatment system can be found in Tables 6 and 8.



## 2.2 Raw Water

<b>Permit to Take Water Number:</b>	8213-BVVTHU
<b>Allowable Maximum Raw Water Volume - Well #1:</b>	662.1 m <sup>3</sup> /day
<b>Allowable Maximum Raw Water Flowrate - Well #1:</b>	1,003 L/min (16.7 L/s)
<b>Allowable Maximum Volume of Raw Water - Well #2:</b>	662.1 m <sup>3</sup> /day
<b>Allowable Maximum Raw Water Flowrate – Well #2:</b>	1,003 L/min (16.7 L/s)

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 5. Raw Water (Well #1) Monthly Average and Maximum Flow and Total Volume for 2023**

Timeframe	Raw Water Flow – Well #1				
	Average Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Maximum Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Total Volume (m <sup>3</sup> )
January	24.5	3.7%	46.6	7.0%	758.1
February	24.2	3.6%	45.8	6.9%	676.4
March	22.8	3.4%	29.8	4.5%	707.1
April	22.8	3.4%	91.4	13.8%	684.0
May	41.4	6.3%	78.5	11.9%	1283.1
June	40.1	6.1%	57.0	8.6%	1202.6
July	33.8	5.1%	47.6	7.2%	1047.2
August	34.5	5.2%	85.1	12.9%	1069.7
September	32.1	4.9%	44.4	6.7%	964.1
October	29.5	4.5%	43.9	6.6%	914.2
November	22.7	3.4%	31.2	4.7%	680.0
December	24.0	3.6%	45.8	6.9%	744.6
<b>2023</b>	<b>29.4</b>	<b>4.4%</b>	<b>91.4</b>	<b>13.8%</b>	<b>10,731</b>

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.

**Table 6. Raw Water (Well #1) Annual and Monthly Average and Maximum Flowrates for 2023**

Timeframe	Raw Water Flowrate – Well #1	
	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.25	6.44
February	0.28	5.95
March	0.26	5.98
April	0.26	8.00
May	0.43	6.06
June	0.39	6.04
July	0.32	6.02
August	0.31	6.10
September	0.29	6.07
October	0.25	6.20
November	0.23	7.16
December	0.27	6.27
<b>2023</b>	<b>0.30</b>	<b>8.00</b>

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.

**Table 7. Raw Water (Well #2) Monthly Average and Maximum Flow and Total Volume for 2023**

Timeframe	Raw Water Flow – Well #2				
	Average Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Maximum Flow (m <sup>3</sup> /day)	Percent of Allowable Volume	Total Volume (m <sup>3</sup> )
January	0.9	0.1%	20.5	3.1%	27.5
February	0.3	0.1%	6.8	1.0%	9.4
March	0.1	0.0%	3.3	0.5%	4.3
April	0.2	0.0%	3.8	0.6%	4.5
May	0.3	0.0%	7.0	1.1%	9.5
June	0.6	0.1%	2.9	0.4%	17.9
July	0.3	0.1%	2.9	0.4%	10.4
August	0.0	0.0%	0.6	0.1%	1.4
September	0.0	0.0%	0.3	0.0%	0.5
October	0.0	0.0%	0.2	0.0%	0.6
November	0.1	0.0%	2.4	0.4%	2.3
December	0.0	0.0%	0.0	0.0%	0.0
<b>2023</b>	<b>0.2</b>	<b>0.0%</b>	<b>20.5</b>	<b>3.1%</b>	<b>88.3</b>

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.



**Table 8. Raw Water (Well #2) Annual and Monthly Average and Maximum Flowrates for 2023**

Timeframe	Raw Water Flowrate – Well #2	
	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.01	6.46
February	0.00	5.83
March	0.00	5.90
April	0.00	5.91
May	0.00	5.94
June	0.00	6.01
July	0.00	6.06
August	0.00	5.80
September	0.00	1.23
October	0.00	4.92
November	0.00	5.93
December	0.00	0.00
<b>2023</b>	<b>0.00</b>	<b>6.46</b>

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 #2.