



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

WALTER'S FALLS
DRINKING WATER SYSTEM

Small Municipal Residential

SCHEDULE 22
SUMMARY REPORT

For the period of
JANUARY 1, 2021 TO DECEMBER 31, 2021

Prepared by the Ontario Clean Water Agency
For The Corporation of the Township of Chatsworth

Summary

This report is a summary of water quality and quantity information submitted in accordance with Schedule 22 of Ontario's Drinking Water System Regulation for the reporting period of January 1, 2021 to December 31, 2021 for the Walter's Falls Drinking Water System (DWS) located in the Township of Chatsworth. The summary includes the following information:

- Any requirements of the Act and Regulation, Orders or System Approval(s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
- A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
- A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

Issues of Non-Compliance

A Ministry of Environment, Conservation & Parks (MECP) Drinking Water System Inspection was performed on February 8, 2021 for the period of July 22, 2019 to February 8, 2021. The Inspection Report was issued on April 14, 2021 and an inspection rating of 89.63% was received.

The following is a summary of the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
The owner was not maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials. A) P. Eng. Identify risks to aquifer B) Plan to address risks to aquifer	2020/21 Inspection	Well pump ordered. Non-compliance appeal in progress.
Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was not performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and/or was not recording data with the prescribed format. Loss of monitoring data	2020/21 Inspection	The SCADA power supply that failed is a built-in component or "chip" of the system. The regular checks to ensure that it is working and data is being recorded is with the 72 hour trend reviews. 72 Hour Data Review SOP updated. Completed.
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. Insufficient Operations Manual	2020/21 Inspection	Updated body of O&M Manual, added revision table, added FEP table of contents. Completed.
All haloacetic acid water quality monitoring requirements prescribed by legislation are not being conducted within the required frequency and at the required location. Insufficient HAAs sampling locations	2020/21 Inspection	The sampling schedule has been updated to include only those sampling locations that are appropriate for HAA sampling. Completed.
All trihalomethane water quality monitoring requirements prescribed by legislation were not conducted within the required frequency and at the required location. THM sampling locations	2020/21 Inspection	The sampling schedule has been updated to include only those sampling locations that are appropriate for HAA sampling. Completed.
All water quality monitoring requirements imposed by the MDWL or DWWP issued under Part V of the	2020/21 Inspection	The daily checksheets have been updated to include all verifications/calibrations and monthly operational checks with

SDWA were not being met. UV Transmittance measurements missed		definitions of monthly and quarterly so as to ensure compliance. Completed.
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The Operating Authority reported the following incidents to the MECP as non-compliances. Confirmation of whether the incidents are considered non-compliances will be noted in the MECP Inspection Report.

Non-Compliance(s)	Duration	Required Action & Corrective Actions
n/a	n/a	n/a

For information on any Adverse Water Quality Incident(s), refer to the Walter's Falls Drinking Water System Annual Report (Section 11) for the reporting period of January 1, 2021 to December 31, 2021.

Assessment of Flowrates and Quantity of Water Supplied

The following table summarizes the quantities of the water supplied during the period covered by the report, including monthly average and maximum daily flows as well as a comparison of the summary to the rated capacity approved in the system's approval, drinking water works permit or municipal drinking water license.

As per Municipal Drinking Water License (MDWL) 241-101 (Issue Number: 3) and the newly issued MDWL 241-101 (Issue Number: 4, expires November 10, 2025), the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a rated capacity of 624 m³/day which has changed from 655.2 m³/day in the previous MDWL (Issue 3).

Table 1. Treated Water Monthly Average and Maximum Daily Flows and Comparison to Rated Capacity for 2021

2021	Treated Water Flow			
	Average Flow (m ³ /day)	Percent of Rated Capacity (MDWL Rated Capacity 624 m ³ /day)	Maximum Flow (m ³ /day)	Percent of Rated Capacity (MDWL Rated Capacity 624 m ³ /day)
January	17.5	2.8%	21.0	3.4%
February	20.0	3.2%	55.0	8.8%
March	21.6	3.5%	35.0	5.6%
April	19.7	3.2%	37.0	5.9%
May	28.3	4.5%	64.0	10.3%
June	38.1	6.1%	82.0	13.1%
July	46.0	7.4%	99.0	15.9%
August	39.1	6.3%	82.0	13.1%
September	41.4	6.6%	55.8	8.9%
October	33.8	5.4%	62.2	10.0%
November	26.6	4.3%	44.8	7.2%
December	23.9	3.8%	31.1	5.0%

Appendix A

Walter's Falls Drinking Water System

Water taking permitted as per PTTW #8213-BVVTHU

Flow & Flowrates for Well 1 & 2

Facility Flow Summary

Drinking-Water System Number: 220007034
 Drinking-Water System Name: WALTER'S FALLS DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Small Municipal Residential
 Municipal Drinking Water License: 241-101
 Period being reported: 01/2021 12/2021

Raw Water				
Raw Water (Source Name)		Well 1		
Source Type:		Drilled		
Drinking Water Permit to Take Water No:		8213-BVVTHU		
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	731.00	23.58	29.00	5.92
Feb	710.00	25.36	42.00	6.23
Mar	838.00	27.03	76.00	7.67*
Apr	639.00	21.30	30.00	5.96
May	825.00	26.61	43.00	5.91
Jun	986.80	32.89	56.00	5.91
Jul	1044.40	33.69	72.00	5.96
Aug	173.00	5.58	42.00	5.88
Sep	1117.37	37.25	48.41	6.71
Oct	940.59	30.34	50.28	6.12
Nov	768.21	25.61	76.37	6.18
Dec	752.46	24.27	29.17	6.21
Total	9525.84	313.51	594.23	74.65
Avg	793.82	26.13	49.52	6.22
Max	1117.37	37.25	76.37	7.67*
Criteria			818.20	
Comments	*Due to flushing-Turbidity too high to make water, no untreated water sent to users			

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 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Small Municipal Residential
 Municipal Drinking Water License: 241-101
 Period being reported: 01/2021 12/2021

Raw Water				
Raw Water (Source Name)		Well 2		
Source Type:		Drilled		
Drinking Water Permit to Take Water No:		8213-BVVTHU		
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	1.00	0.03	1.00	5.87
Feb	0.00	0.00	0.00	5.70
Mar	31.00	1.00	30.00	7.67*
Apr	1.00	0.03	1.00	5.86
May	1.00	0.03	1.00	5.86
Jun	2.00	0.07	2.00	5.84
Jul	123.00	3.97	63.00	5.92
Aug	874.00	28.19	52.00	5.90
Sep	1.84	0.06	0.96	5.87
Oct	1.34	0.04	1.09	6.07
Nov	2.14	0.07	1.31	6.13
Dec	2.36	0.08	2.05	6.13
Total	1040.68	33.58	155.41	72.84
Avg	86.72	2.80	12.95	6.07
Max	874.00	28.19	63.00	7.67*
Criteria				

Comment *Due to flushing-Turbidity too high to make water, no untreated water to users