



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

CHATSWORTH
DRINKING WATER SYSTEM

Large Municipal Residential

SCHEDULE 22
SUMMARY REPORT

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

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 Chatsworth Drinking Water System 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

An MECP Drinking Water System Inspection was performed on February 8, 2021 for the period of September 10, 2019 to February 8, 2021. The Inspection Report was issued on April 15, 2021 and an inspection rating of 91.36% 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
Primary disinfection chlorine monitoring was not conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved. Insufficient CT simulator verifications	2020/21 Inspection	The daily checksheets have been updated to include all verifications/calibrations and monthly operational checks with definitions of monthly and quarterly so as to ensure compliance. Completed.
All continuous analysers were not calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation. Insufficient equipment maintenance SOPs	2020/21 Inspection	An SOP for the Continuous Monitoring Compliance Analyzers was created. 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 water quality monitoring requirements imposed by the MDWL or DWWP issued under Part V of the SDWA were not being met. UV Transmittance measurements missed	2020/21 Inspection	Measuring and recording the UV Transmittance is no longer a requirement under the current MDWL. No further action required.

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 Chatsworth 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 (Table 1) 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) 241-102 (Issue Number: 3) and the newly issued MDWL 241-102 (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 763 m³/day.

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

2021	Well 1 & 2 Combined Water Flow			
	Average Flow (m ³ /day)	Percent of Rated Capacity (MDWL Rated Capacity 763 m ³ /day)	Maximum Flow (m ³ /day)	Percent of Rated Capacity (MDWL Rated Capacity 763 m ³ /day)
January	162	21.2%	275	36.0%
February	165	21.6%	233	30.5%
March	163	21.4%	201	26.3%
April	159	20.8%	229	30.0%
May	201	26.3%	339	44.4%
June	225	29.5%	384	50.3%
July	165	21.6%	236	30.9%
August	165	21.6%	201	26.3%
September	138	18.1%	217	28.4%
October	140	18.3%	284	37.2%
November	137	18.0%	165	21.6%
December	152	19.9%	179	23.5%

Appendix A

Chatsworth Drinking Water System

Water taking permitted as per PTTW #3802-9L2JFM

Flow & Flowrates for Well 1 & 2

Facility Flow Summary

Drinking-Water System Number: 210003011
 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 241-102
 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:		3802-9L2JFM		
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	8.00	0.26	3.00	7.33
Feb	14.00	0.50	4.00	7.38
Mar	13.00	0.42	5.00	7.31
Apr	12.00	0.40	4.00	11.16*
May	7.00	0.23	2.00	7.57
Jun	6.00	0.20	2.00	7.68
Jul	6.00	0.19	3.00	7.22
Aug	767.00	24.74	161.00	7.24
Sep	4149.44	138.31	216.98	6.76
Oct	486.72	15.70	138.90	6.95
Nov	10.88	0.36	6.13	7.01
Dec	15.08	0.49	4.73	6.96
Total	5495.12	181.80	550.74	90.57
Avg	457.93	15.15	45.90	7.55
Max	4149.44	138.31	216.98	11.16*
Criteria			818.20	

Comments *Max flow shut down plant after 1 minute

Facility Flow Summary

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 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 241-102
 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:		3802-9L2JFM		
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	5006.00	161.48	275.00	7.47
Feb	4608.00	164.57	233.00	7.42
Mar	5046.00	162.77	201.00	7.44
Apr	4754.00	158.47	229.00	11.16*
May	6221.00	200.68	338.00	7.29
Jun	6754.00	225.13	383.00	7.25
Jul	5105.00	164.68	236.00	7.38
Aug	4340.00	140.00	201.00	7.30
Sep	1.93	0.06	1.29	7.15
Oct	3859.72	124.51	283.59	7.40
Nov	4084.49	136.15	165.20	7.30
Dec	4698.73	151.57	176.81	7.23
Total	54478.86	1790.08	2722.89	91.78
Avg	4539.90	149.17	226.91	7.65
Max	6754.00	225.13	383.00	11.16*
Criteria			818.20	

Comments *Max flow shut down plant after 1 minute