

Summary Report 2018

Orangeville Drinking Water System

Town of Orangeville

Ministry of the Environment, Conservation & Parks

Municipal Drinking Water License No. 108-101

Drinking Water Works Permit No. 108-201

Water Works No. 220003252



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Revised: None

Section 1 – Description

This is the summary report for the Orangeville drinking water system, as required by Schedule 22 of O. Reg. 170/03, as amended, Summary Reports for Municipalities. For purposes of that regulation, the Orangeville drinking water system is considered a large municipal residential system.

Section 2 – Background

The reporting period is January 1 to December 31, 2018.

During the reporting period, the Orangeville drinking water system was operated pursuant to the Municipal Drinking Water License and Drinking Water Works Permit listed below.

1. Municipal Drinking Water License (MDWL) No. 108-101 (Issue No. 2), dated December 4, 2015 and expiring on December 3, 2020;
2. Drinking Water Works Permit (DWWP) No. 108-201 (Issue No. 2), dated December 4, 2015.

The DWWP and MDWL were issued in accordance with Sections 40 and 44, respectively, of the Safe Drinking Water Act (SDWA), 2002.

Water takings for the drinking water system were made under Permit to Take Water (PTTW) No. 7518-8XGL8T, issued December 14, 2012 and expiring on December 31, 2022.

The summary report is required to provide the following:

1. A list of any known instances when the system failed to meet the requirements of the SDWA, the regulations, the system's MDWL, DWWP, and any order;
2. Descriptions of the measures that were taken to correct the failure;
3. A summary of the quantities and flow rates of water supplied during the reporting period;
4. The monthly average and maximum daily instantaneous peak flow rates;
5. A comparison of the data summarized above to the rated capacities and flow rates in the system's MDWL.

Section 3 - Failure to Meet Regulatory Requirements

No known instances of regulatory non-compliance occurred in 2018.

Section 4 - Summaries of Flow Rates and Water Supply Capacities

Table 1 summarizes the capacities of the system's water treatment facilities and the flow rates through the facilities during the reporting period. The table includes the following information.

1. The monthly average and maximum daily flow through each of the water treatment facilities, in cubic metres per month and cubic metres per day, respectively.
2. The daily instantaneous peak flow rate through each of the water treatment facilities, in litres per minute. The table includes a footnote explaining how the rates were calculated.
3. The approved rated capacity of each treatment facility, in cubic metres per day, as authorized in the Municipal Drinking Water License. None of the facilities exceeded their approved rated capacities in 2018.
4. The maximum daily flow through each treatment facility expressed as a percentage of the approved rated capacity for that facility, as authorized in the Municipal Drinking Water License.
5. Footnotes that deal specifically with the Well 2A treatment facility.

TABLE 1

**Town of Orangeville Drinking Water System
Water Treatment Facilities
2018 Capacity & Flow Summary**

Well Field	Volumes Through Treatment Facilities				Approved Rated Capacity in MDWL (m3/day)
	Monthly Average (m3/mo.)	Daily Instantaneous Peak Flow Rate (L/min.) (1)	Maximum Daily Flow (m3/day)	Max. Daily Flow as % of Approved Rated Capacity in MDWL	
2A	14,239 (2)	463	667	51% (3)	1,309 (3)
5/5A	95,824	3,938	5,670	95%	6,000
6	57,157	2,152	3,099	86%	3,600
7	27,762	766	1,103	84%	1,310
8B/8C	8,865	262	377	58%	654
9A/9B	18,377	568	818	93%	878
10	25,444	860	1,239	85%	1,453
11	23,009	676	974	74%	1,309
12	24,082	678	976	75%	1,309
All Wells:	287,639	-	13,949	78%	17,822

Footnotes:

(1) Daily instantaneous peak flow rates are calculated by converting the maximum daily flow in m3/day to L/min. This calculation assumes the flow through the treatment facility has been continuous during the preceding 24-hour period.

(2) The Well 2A monthly average is based on a 6 month operating period. Refer to PTTW No. 7518-8XGL8T.

(3) The Well 2A maximum daily volume allowed in PTTW No. 7518-8XGL8T is only 878.4 m3/day. The maximum daily flow of 667 m3/day is **76%** of the PTTW rate.

Section 5 - Summary and Conclusion

This report will be presented to Orangeville Council at its March 18, 2019 meeting, satisfying the requirements of Section 22-2 (1) (a) of O. Reg. 170/03, as amended. Additionally, the report will be available to the public at no cost, and the Town will post the report on its website at www.orangeville.ca.