

The Municipality of Trent Hills



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SUMMARY REPORT

Campbellford Drinking-Water System

2022

Municipal Drinking Water License 150-102

Drinking Water Works Permit 150-202

Prepared by
Water Operations Division
March 2023

The following summary report is prepared as legislated by the **Safe Drinking Water Act, 2002** under Ontario Regulation 170, Schedule 22 - Summary Reports for Municipalities.

SAFE DRINKING WATER ACT
(O. Reg. 170/03, Schedule 22)

The following provides details of the sections and sub-sections found under **Schedule 22 - Summary Reports for Municipalities** of O. Reg. 170/03. This information has been included for your reference.

SCHEDULE 22

SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential, Small Residential

Application

22-1. This Schedule applies to the following drinking-water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2.

(1) The owner of a drinking-water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking-water system owned by a municipality, the members of the municipal council.
- (b) in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act 2001*, the members of the municipal service board; or
- (c) in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list 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; and
- (b) for each requirement referred to in clause (a), that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for enabling the owner of the system to assess the capability of the system to meet existing planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

Report Summary

In reference to the above legislation, the following details how this relates to the Campbellford Drinking Water System:

Application

22-1. The Campbellford Drinking Water System is classified as:

“Large municipal residential”

Report

22-2.

Sub-section (1)

This section refers to this report submission.

Sub-section (2)

Campbellford Drinking Water System Drinking Water Inspection Report 1-54448504

Non-Compliance/Non-Conformance Items
Observations/Corrective Action(s)

1. There is no backflow prevention program, policy and/or bylaw in place.

To help prevent any cross connections or backflow from high hazard facilities it is recommended that a backflow prevention program, policy or bylaw be implemented by the Municipality.

2. The owner did not have a program or maintained a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system.

To help ensure routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks it is recommended that the Municipality develop a program.

Other Inspection Findings
Observation/Corrective Action(s)

1. During the inspection it was noted that the High Street pumping station singer control valve as well as the post chlorination booster pump were replace on July 16, 2020. When questioned on the disinfection process the ORO confirmed that AWWA procedures were followed however there was no documentation to note these activities.

As a best practice the Municipality is asked to develop a documentation process which will include details regarding disinfection of all equipment that is introduced into the treatment train and which has the potential for contamination. Such activities should include the AWWA procedure used, method of disinfection, disinfection timeframe, chlorine disinfection strength, whether or not microbiological samples were taken for verification etc.

2. The owner operator does not have formal procedure to detail the cleaning and inspection frequency of the onsite chlorine contact chamber and clearwell or offsite reservoir. It is recommended that a formal cleaning frequency procedure be created and included into current procedures.

Final Inspection Rating 100%

There were no known occurrences of non-compliance with applicable act, regulations, drinking water works permit or municipal drinking water license, and no orders were issued to Trent Hills, Campbellford Drinking Water System during this reporting period.

Sub-section (3)

This information is included in Appendix A which provides flow data for the Campbellford water system. The data included in those tables under Treated water details average and maximum flows to assess actual flow demands compared with the approved capacities of the facility. The data included under the raw water heading displays peak flow demands compared to the approved capacity. This data would also indicate if a facility exceeded the rated operational capacity.

Sub-section (4)

This section does not apply to the Campbellford Drinking Water System.

Any questions regarding the information contained in this report can be directed to the undersigned at 705-653-8569.

Scott White
General Manager of Infrastructure Renewal and Public Works Administration,
Municipality of Trent Hills

APPENDIX A

CAMPBELLFORD WATER TREATMENT PLANT

2022 Flow Summary Data

ANNUAL FLOW SUMMARY 2022

CAMPBELLFORD WATER TREATMENT PLANT

Service Population: 3,811

Design Capacity: 6,800 M³/Day, 78.7 l/s

Treated Water							Raw Water				
Month	Total Monthly Flow	Average Daily Flow	Minimum Daily Flow	Maximum Daily Flow	Approved Daily Plant Capacity	Maximum Daily Flow vs. Plant Capacity	Total Monthly Flow	Maximum Daily Flow	Maximum Peak Flow Rate	Approved Maximum Flow Rate PTTW	Max. Peak Flow Rate vs. Rated Flow Rate
	M ³	M ³	M ³	M ³	M ³	%	M ³	M ³	l/s	l/s	%
January	45,721	1,475	1,233	1,774	6,800	26	48,953	1,663	37.2	69.5	54
February	49,322	1,761	1,250	2,364	6,800	35	52,695	2,788	49.3	69.5	71
March	53,985	1,741	1,186	2,382	6,800	35	56,873	2,483	52.4	69.5	75
April	47,658	1,589	1,106	2,019	6,800	30	50,073	2,048	38.1	69.5	55
May	56,323	1,817	1,436	2,189	6,800	32	59,022	2,292	41.1	69.5	59
June	55,991	1,866	1,605	2,191	6,800	32	58,616	2,234	43.5	69.5	63
July	59,921	1,933	1,681	2,192	6,800	32	62,135	2,378	47.0	69.5	68
August	65,196	2,103	1,706	2,470	6,800	36	67,332	2,473	78.6	69.5	113
September	62,665	2,089	1,730	2,873	6,800	42	64,857	3,150	69.8	69.5	100
October	59,061	1,905	1,516	2,559	6,800	38	62,277	2,267	41.9	69.5	60
November	56,153	1,872	1,129	2,157	6,800	32	60,088	2,201	43.2	69.5	62
December	45,174	1,457	1,056	1,769	6,800	26	48,576	1,674	36.8	69.5	53
Total	657,170						691,497				
Average		1,801									
Minimum			1,056								
Maximum				2,873		42.3		3,150	78.6		113.1