



Come for a visit. Stay for a lifestyle.

The Municipality of Trent Hills

SUMMARY REPORT

Hastings Drinking-Water System 2022

Municipal Drinking Water License 150-103

Drinking Water Works Permit 150-203

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, Sched. 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), to 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.

(5) REVOKED: O. Reg. 253/05, s. 18

Report Summary

In reference to the above legislation, the following details how this relates to the Trent Hills drinking water systems:

Application

- 22-1.** The Hastings 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)

Hastings Drinking Water System (January 2022) Drinking Water System Inspection Report 1-54448521

Observation/Corrective Action(s)

The following issues were also noted during the inspection

1. During the inspection it was noted that the high lift pump valves were replaced on March 24, 2021. 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 time frame, chlorine disinfection strength, whether or not microbiological samples were taken for verification etc.

2. During the inspection it was identified that the owner/operator is only verifying the continuous turbidity analyzers for the filter effluent on a quarterly basis. As the manufacturer's instructions do not indicate how often to verify, the regulation requires as often as necessary to ensure that the test results are within a margin of error of 0.1 NTU.

It is recommended that at a minimum the owner/operator verify and document a verification weekly on each analyzer. If the verification is outside the margin of error a calibration must be completed.

3. The owner/operator does not have a 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.

4. It was identified during the inspection that the owner/operator is currently not using No Trespassing signs to deter members of the public from loitering around the treatment plant. As a best practice it is recommended that such signage be utilized.

Final Inspection Rating 100%

Hastings Drinking Water System (October 2022)
Drinking Water System Inspection Report 1-126671421

Observation/Corrective Action(s)

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

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, Hastings Drinking Water System during this reporting period.

Sub-section (3)

This information is included in Appendix A which provides flow data for the Hasting 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 each 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 applies to the Hastings Drinking Water System. This system supplies drinking water to the Trentview Estates subdivision in the Township of Asphodel-Norwood.

Any questions regarding the information contained in this report should 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

HASTINGS WATER TREATMENT PLANT

2022 Flow Summary Data

ANNUAL FLOW SUMMARY 2022

HASTINGS WATER TREATMENT PLANT

Service Population: 1,562

Design Capacity: 1,961 M³/Day, 22.7 l/s

Treated Water							Raw Water				
Month	Total Monthly Flow M ³	Average Daily Flow M ³	Minimum Daily Flow M ³	Maximum Daily Flow M ³	Approved Daily Plant Capacity M ³	Maximum Daily Flow vs. Plant Capacity %	Total Monthly Flow M ³	Maximum Daily Flow M ³	Maximum Peak Flow Rate l/s	Approved Maximum Flow Rate l/s	Max. Peak Flow Rate vs. Rated Flow Rate %
January	16,268	525	453	671	1,961	34	18,809	674	17.4	22.7	77
February	16,207	579	496	697	1,961	36	18,957	850	16.3	22.7	72
March	16,798	542	477	619	1,961	32	19,738	700	15.6	22.7	69
April	16,792	560	458	730	1,961	37	19,249	800	16.5	22.7	73
May	18,035	582	266	811	1,961	41	21,676	850	18.6	22.7	82
June	19,759	659	535	809	1,961	41	21,804	900	19.0	22.7	84
July	22,237	717	512	859	1,961	44	24,846	900	18.2	22.7	80
August	21,276	686	470	903	1,961	46	24,051	950	17.2	22.7	76
September	16,851	562	426	716	1,961	37	19,209	782	15.4	22.7	68
October	16,286	525	449	772	1,961	39	18,862	729	16.9	22.7	74
November	15,173	506	429	571	1,961	29	17,975	660	16.6	22.7	73
December	16,043	518	434	630	1,961	32	19,406	741	15.2	22.7	67
Total	211,725						244,582				
Average		580									
Minimum			266								
Maximum				903		46		950	19.0		84