

2022 Summary Report Port Colborne Water Treatment Plant



Port Colborne Water Treatment Plant

Regional Municipality of Niagara

2022 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2022

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-101

Drinking Water Works Permit # 007-201

Port Colborne Water Treatment Plant - 2022 Summary Report

This report summarizes the water flows for the Port Colborne Water Treatment Plant, drinking water system number 220002075, from January 1 to December 31, 2022.

This report satisfies the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

Inspection Rating

The Port Colborne Water Treatment Plant was granted a 100% inspection rating during the 2022 Ministry of Environment, Conservation and Parks annual drinking water system inspection.

Summary of Non-Compliance

The Port Colborne Water Treatment Plant was operated in such a way that at no time did it fail to meet or exceed the requirements of the Safe Drinking Water Act, associated regulations, the system's approval or any order that may have been issued for this reporting period.

Summary of Water Treatment Plant Flows

The flow rates captured below are moments in time, and can be affected by various circumstances, such as pump changes or valve position. It is not unusual to have higher or lower than normal flows for this reason.

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Maximum Daily Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	229.350	224.200	7.398	7.232	16.080	4.370	17.877	3.703	1.571
Feb	209.250	205.130	7.473	7.326	9.550	5.800	17.703	3.467	1.594
Mar	238.130	233.620	7.682	7.536	9.255	5.410	15.087	3.887	1.719
Apr	207.590	205.000	6.920	6.833	8.030	5.830	12.851	2.854	1.701
May	229.400	220.600	7.400	7.116	8.600	5.680	12.964	3.189	1.608
Jun	231.980	220.620	7.733	7.354	8.730	5.680	15.846	3.631	1.604
Jul	232.258	226.102	7.492	7.294	9.715	5.545	17.415	3.774	1.958
Aug	226.392	218.218	7.303	7.039	8.757	5.300	39.600	3.399	2.195
Sep	204.100	190.900	6.803	6.363	8.070	4.360	12.615	3.703	2.265
Oct	196.060	191.140	6.325	6.166	7.850	4.650	12.749	3.805	1.629
Nov	197.190	193.120	6.573	6.437	8.040	4.710	15.210	4.810	1.558
Dec	215.810	209.180	6.962	6.748	8.620	4.655	29.409	4.708	2.520

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	2617.510	2537.830							21.922
Min						4.360		2.854	1.558
Max					16.080		39.600		2.520

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Avg			7.172	6.954					1.827

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-101.

- Maximum daily flow: 36.000 ML
- Maximum flow rate: 36.000 ML/day

Month	Average Day Treated (ML)	% of Rated Capacity	Maximum Day Treated (ML)	% of Rated Capacity	Maximum Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	7.232	20%	16.080	45%	17.877	50%
Feb	7.326	20%	9.550	27%	17.703	49%
Mar	7.536	21%	9.255	26%	15.087	42%
Apr	6.833	19%	8.030	22%	12.851	36%
May	7.116	20%	8.600	24%	12.964	36%
Jun	7.354	20%	8.730	24%	15.846	44%
Jul	7.294	20%	9.715	27%	17.415	48%
Aug	7.039	20%	8.757	24%	39.600	110%
Sep	6.363	18%	8.070	22%	12.615	35%
Oct	6.166	17%	7.850	22%	12.749	35%
Nov	6.437	18%	8.040	22%	15.210	42%
Dec	6.748	19%	8.620	24%	29.409	82%