



2021 Summary Report

(Prepared under Ontario Regulation 170/03)

Port Colborne Water Treatment Plant

The Regional Municipality of Niagara

January 1 to December 31, 2021

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-101

Drinking Water Works Permit # 007-201

Port Colborne Water Treatment Plant - 2021 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, 2021.

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

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.

Date	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	200.240	196.800	6.459	6.348	4.110	7.430	3.969	12.564	1.930
Feb	185.340	183.440	6.619	6.551	5.160	7.500	4.021	16.010	1.790
Mar	205.490	204.040	6.629	6.582	4.400	7.310	3.846	12.708	2.134
Apr	189.870	189.230	6.329	6.308	4.390	7.160	4.021	15.332	1.739
May	208.110	202.550	6.713	6.534	4.760	8.470	3.549	16.092	2.112
Jun	209.290	207.190	6.976	6.906	4.980	7.999	3.589	16.841	2.140
Jul	204.500	201.180	6.597	6.490	4.470	8.080	3.579	12.533	2.169
Aug	217.860	213.350	7.028	6.882	4.980	9.570	3.590	17.200	1.750
Sep	189.650	185.190	6.322	6.173	4.220	7.600	3.610	16.667	1.647
Oct	184.930	180.820	5.965	5.833	4.530	6.931	3.313	27.815	1.691
Nov	188.430	177.740	6.281	5.925	4.017	9.140	3.846	12.697	1.999
Dec	193.710	189.290	6.249	6.106	4.310	7.190	3.559	18.718	2.031

Stat	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	2377.420	2330.820							23.132
Min					4.017		3.313		1.647
Max						9.570		27.815	2.169

Stat	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Avg		194.235	6.514	6.387					1.928

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

Date	Average Day Treated (ML)	% of Rated Capacity	Maximum Day Treated (ML)	% of Rated Capacity	Maximum Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	6.348	17.6%	7.430	20.6%	12.564	34.9%
Feb	6.551	18.2%	7.500	20.8%	16.010	44.5%
Mar	6.582	18.3%	7.310	20.3%	12.708	35.3%
Apr	6.308	17.5%	7.160	19.9%	15.332	42.6%
May	6.534	18.1%	8.470	23.5%	16.092	44.7%
Jun	6.906	19.2%	7.999	22.2%	16.841	46.8%
Jul	6.490	18.0%	8.080	22.4%	12.533	34.8%
Aug	6.882	19.1%	9.570	26.6%	17.200	47.8%
Sep	6.173	17.1%	7.600	21.1%	16.667	46.3%
Oct	5.833	16.2%	6.931	19.3%	27.815	77.3%
Nov	5.925	16.5%	9.140	25.4%	12.697	35.3%
Dec	6.106	17.0%	7.190	20.0%	18.718	52.0%