

2023 Summary Report Port Colborne Water Treatment Plant



Port Colborne Water Treatment Plant`

Regional Municipality of Niagara

2023 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2023

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-101

Drinking Water Works Permit # 007-201

Port Colborne Water Treatment Plant - 2023 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, 2023.

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 2023 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	233.990	221.880	7.548	7.157	9.070	5.280	12.841	3.495	2.754
Feb	227.327	220.948	8.119	7.891	9.880	6.280	12.821	3.785	2.328
Mar	265.793	245.172	8.574	7.909	9.740	5.750	15.272	4.554	3.042
Apr	272.481	242.325	9.083	8.078	9.780	5.824	28.195	4.964	2.854
May	291.399	256.015	9.400	8.259	10.670	6.200	16.985	3.928	0.000
Jun	268.330	243.140	8.944	8.105	10.580	6.167	19.087	3.785	0.000
Jul	266.175	235.014	8.586	7.581	9.791	5.750	13.774	4.144	0.000
Aug	246.805	217.686	7.961	7.022	10.070	5.412	15.497	4.636	0.000
Sep	243.840	207.550	8.128	6.918	8.760	5.270	12.523	5.015	0.000
Oct	232.110	210.290	7.487	6.784	8.331	4.790	12.810	5.128	0.000
Nov	238.720	210.080	7.957	7.003	8.390	5.616	16.021	5.426	0.000
Dec	246.840	225.880	7.963	7.286	10.120	5.640	14.144	5.467	0.000

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)
Total	3033.810	2735.980							10.978
Min						4.790		3.495	0.000
Max					10.670		28.195		10.978

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			8.313	7.499					0.915

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	7.157	20%	9.070	25%	12.841	35%
Feb	7.891	20%	9.880	27%	12.821	35%
Mar	7.909	21%	9.740	26%	15.272	42%
Apr	8.078	19%	9.780	22%	28.195	36%
May	8.259	20%	10.670	29%	16.985	36%
Jun	8.105	20%	10.580	29%	19.087	44%
Jul	7.581	20%	9.791	27%	13.774	48%
Aug	7.022	20%	10.070	28%	15.497	43%
Sep	6.918	18%	8.760	22%	12.523	35%
Oct	6.784	17%	8.331	22%	12.810	35%
Nov	7.003	18%	8.390	22%	16.021	42%
Dec	7.286	19%	10.120	28%	14.144	82%