



REGIONAL MUNICIPALITY OF NIAGARA
Public Works Department
Water & Wastewater Services Division

PORT COLBORNE WATER TREATMENT PLANT

ANNUAL SUMMARY REPORT

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2019

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-102

Drinking Water Works Permit # 007-202

1. Failure to meet with the requirements of the Act, the regulation, the system's approval:

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.

2. A summary of flows for the reporting period January 1, 2019 – December 31, 2019:

2019	TOTAL FLOW	TOTAL FLOW	AVERAGE DAY	AVERAGE DAY	MAX. DAY	MIN. DAY	MAX. FLOW RATE	MIN. FLOW RATE	WASTE SLUDGE
	Raw (ML)	Treated (ML)	Raw (ML)	Treated (ML)	Treated (ML)	Treated (ML)	Treated (ML/d)	Treated (ML/d)	(ML)
Jan	256.970	245.010	8.289	7.904	8.790	6.090	17.518	3.282	1.551
Feb	240.000	232.250	8.571	8.295	12.390	6.720	15.487	4.390	1.470
Mar	259.330	249.370	8.365	8.044	9.170	6.700	17.262	4.256	1.660
Apr	242.670	232.550	8.089	7.752	10.340	6.310	38.226**	2.892	1.507
May	232.410	222.120	7.497	7.165	8.420	5.030	16.267	4.390	1.736
Jun	220.650	215.920	7.355	7.197	8.460	5.230	12.759	4.349	2.025
Jul	236.980	235.350	7.645	7.592	10.530	5.047	16.749	3.651	2.010
Aug	221.870	221.410	7.157	7.142	8.420	5.290	16.903	2.456	1.834
Sep	200.450	198.200	6.682	6.607	7.960	4.780	15.415	3.990	1.773
Oct	197.230	194.050	6.362	6.260	7.500	4.560	27.202	3.836	1.975
Nov	199.930	194.460	6.664	6.482	7.810	4.940	16.308	2.061	2.051
Dec	220.430	215.350	7.111	6.947	8.420	5.090	13.477	3.713	1.777
TOTAL	2728.920	2656.040							21.369
MIN						4.560		2.061	1.470
MAX					12.390		38.226		2.051
AVG			7.482	7.282					1.781

*The flow rates are moments in time, and can be affected by various circumstances, such as pump changes or valve position and therefore not unusual to have higher or lower than normal flow.

**A temporary exceedance of the rated capacity or maximum flow rate are permitted for the purposes of fire protection and system maintenance activities.

3. A comparison of actual flows to that of the flow rates set out in the system's approval:

Flow rates as set in:

- Drinking Water Works Permit # 007-201
- Municipal Drinking Water License # 007-101

Maximum daily flow 36.000 ML

Maximum flow rate 36.000 ML/day

2019	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	7.904	22.0%	8.79	24.4%	17.518	48.7%
Feb	8.295	23.0%	12.39	34.4%	15.487	43.0%
Mar	8.044	22.3%	9.17	25.5%	17.262	48.0%
Apr	7.752	21.5%	10.34	28.7%	38.226*	106.2%*
May	7.165	19.9%	8.42	23.4%	16.267	45.2%
Jun	7.197	20.0%	8.46	23.5%	12.759	35.4%
Jul	7.592	21.1%	10.53	29.3%	16.749	46.5%
Aug	7.142	19.8%	8.42	23.4%	16.903	47.0%
Sep	6.607	18.4%	7.96	22.1%	15.415	42.8%
Oct	6.260	17.4%	7.5	20.8%	27.202	75.6%
Nov	6.482	18.0%	7.81	21.7%	16.308	45.3%
Dec	6.947	19.3%	8.42	23.4%	13.477	37.4%

*A temporary exceedance of the rated capacity or maximum flow rate are permitted for the purposes of fire protection and system maintenance activities.