



**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, 2020**

**Ministry of the Environment, Conservation and Parks**

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

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, 2020 – December 31, 2020:

2020	TOTAL FLOW		AVERAGE DAY		MAX. DAY	MIN. DAY	MAX. FLOW RATE	MIN. FLOW RATE	WASTE SLUDGE
Date	Raw (ML)	Treated (ML)	Raw (ML)	Treated (ML)	Treated (ML)	Treated (ML)	Treated (ML/d)	Treated (ML/d)	(ML)
Jan	213.860	208.780	6.899	6.735	8.130	4.840	27.591	3.897	2.852
Feb	199.550	196.190	7.127	7.024	7.938	6.100	17.128	4.277	1.711
Mar	225.510	219.090	7.275	7.067	8.858	5.420	12.841	3.846	1.932
Apr	206.930	204.240	6.898	6.808	7.900	4.590	12.749	3.682	2.585
May	225.330	218.570	7.269	7.051	9.070	5.170	21.678	3.887	2.851
Jun	228.870	223.440	7.629	7.448	8.625	6.180	16.451	3.703	2.491
Jul	245.660	239.220	7.925	7.717	9.574	5.690	16.431	3.754	2.609
Aug	226.180	221.330	7.296	7.140	9.340	4.690	16.708	3.692	1.640
Sep	204.540	201.240	6.818	6.708	8.110	4.550	12.742	3.897	1.562
Oct	210.440	207.430	6.788	6.691	10.483	4.010	17.764	3.497	1.553
Nov	184.850	178.950	6.162	5.965	6.910	3.300	16.482	3.621	2.306
Dec	190.030	189.080	6.130	6.099	7.730	4.020	12.574	4.133	1.612
<b>TOTAL</b>	<b>2561.750</b>	<b>2507.560</b>							<b>25.704</b>
<b>MIN</b>						<b>3.300</b>		<b>3.497</b>	<b>1.553</b>
<b>MAX</b>					<b>10.483</b>		<b>27.591</b>		<b>25.704</b>
<b>AVG</b>			<b>7.018</b>	<b>6.871</b>					<b>2.142</b>

\*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.

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

<b>2020</b>	<b>AVERAGE DAY</b>	<b>% OF RATED CAPACITY</b>	<b>MAX. DAY</b>	<b>% OF RATED CAPACITY</b>	<b>MAX. FLOW RATE</b>	<b>% OF RATED CAPACITY</b>
<b>Date</b>	<b>Treated (ML)</b>		<b>Treated (ML)</b>		<b>Treated (ML/d)</b>	
<b>Jan</b>	6.735	<b>18.7%</b>	8.130	<b>22.6%</b>	27.591	<b>76.6%</b>
<b>Feb</b>	7.024	<b>19.5%</b>	7.938	<b>22.1%</b>	17.128	<b>47.6%</b>
<b>Mar</b>	7.067	<b>19.6%</b>	8.858	<b>24.6%</b>	12.841	<b>35.7%</b>
<b>Apr</b>	6.808	<b>18.9%</b>	7.900	<b>21.9%</b>	12.749	<b>35.4%</b>
<b>May</b>	7.051	<b>19.6%</b>	9.070	<b>25.2%</b>	21.678	<b>60.2%</b>
<b>Jun</b>	7.448	<b>20.7%</b>	8.625	<b>24.0%</b>	16.451	<b>45.7%</b>
<b>Jul</b>	7.717	<b>21.4%</b>	9.574	<b>26.6%</b>	16.431	<b>45.6%</b>
<b>Aug</b>	7.140	<b>19.8%</b>	9.340	<b>25.9%</b>	16.708	<b>46.4%</b>
<b>Sep</b>	6.708	<b>18.6%</b>	8.110	<b>22.5%</b>	12.742	<b>35.4%</b>
<b>Oct</b>	6.691	<b>18.6%</b>	10.483	<b>29.1%</b>	17.764	<b>49.3%</b>
<b>Nov</b>	5.965	<b>16.6%</b>	6.910	<b>19.2%</b>	16.482	<b>45.8%</b>
<b>Dec</b>	6.099	<b>16.9%</b>	7.730	<b>21.5%</b>	12.574	<b>34.9%</b>