



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

# **NIAGARA FALLS 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**

**Drinking Water Works Permit # 007-202**  
**Municipal Drinking Water License # 007-102**

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

The Niagara Falls 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	1306.819	1205.506	42.155	38.887	45.022	34.892	64.500	9.012	1.015
Feb	1204.272	1132.177	43.010	40.435	45.482	36.441	58.134	16.325	0.502
Mar	1367.330	1277.948	44.107	41.224	45.828	36.746	85.608	16.656	0.344
Apr	1368.584	1234.817	45.619	41.161	46.912	36.223	65.802	15.226	6.833
May	1366.246	1302.776	44.072	42.025	47.581	36.503	61.006	15.568	1.659
Jun	1476.388	1402.020	49.213	46.734	58.347	40.056	85.138	21.051	1.131
Jul	1875.394	1804.622	60.497	58.214	71.776	46.995	94.300	27.506	0.440
Aug	1739.880	1667.511	56.125	53.791	63.003	47.674	79.931	26.792	0.283
Sep	1398.047	1334.493	46.602	44.483	48.970	40.402	68.406	5.320	1.119
Oct	1304.357	1226.981	42.076	39.580	44.806	33.206	97.352	15.650	2.333
Nov	1208.534	1119.091	40.284	37.303	43.583	32.306	64.223	11.988	2.056
Dec	1221.081	1132.879	39.390	36.544	42.941	31.752	56.046	9.619	1.806
<b>TOTAL</b>	<b>16,836.932</b>	<b>15,840.821</b>							<b>19.521</b>
<b>MIN</b>						<b>31.752</b>		<b>5.320</b>	<b>0.283</b>
<b>MAX</b>					<b>71.776</b>		<b>97.352</b>		<b>6.833</b>
<b>AVG</b>		<b>1,320.07</b>	<b>46.10</b>	<b>43.37</b>					<b>1.627</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 the flow rates set out in the system's approval:

Flow rates as set in:

- Drinking Water Works Permit # 007-202
- Municipal Drinking Water License # 007-102

Maximum daily flow: 145.500 ML

Maximum flow rate: 145.500 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	38.887	27%	45.022	31%	64.500	44%
Feb	40.435	28%	45.482	31%	58.134	40%
Mar	41.224	28%	45.828	32%	85.608	59%
Apr	41.161	28%	46.912	32%	65.802	45%
May	42.025	29%	47.581	33%	61.006	42%
Jun	46.734	32%	58.347	40%	85.138	59%
Jul	58.214	40%	71.776	49%	94.300	65%
Aug	53.791	37%	63.003	43%	79.931	55%
Sep	44.483	31%	48.970	34%	68.406	47%
Oct	39.580	27%	44.806	31%	97.352	67%
Nov	37.303	26%	43.583	30%	64.223	44%
Dec	36.544	25%	42.941	30%	56.046	39%