

NIAGARA FALLS 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 # 007-202
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, 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	1282.524	1111.375	41.372	35.851	41.036	25.466	58.100	13.821	1.273
Feb	1178.148	1085.985	40.626	37.448	42.226	31.518	76.681	4.640	1.260
Mar	1195.610	1086.552	38.568	35.050	39.546	30.725	56.045	12.027	0.439
Apr	1083.779	987.507	36.126	32.917	36.344	29.217	61.459	0.079	46.946
May	1282.259	1142.771	41.363	36.864	49.087	29.880	79.496	0.067	0.634
Jun	1457.785	1373.233	48.593	45.774	57.581	32.869	78.517	0.084	1.184
Jul	1759.797	1678.408	56.768	54.142	69.630	45.766	65.583	43.486	1.320
Aug	1643.961	1570.189	53.031	50.651	59.930	40.966	91.605	0.090	1.107
Sep	1429.602	1315.257	47.653	43.842	49.622	37.212	83.594	0.079	1.131
Oct	1204.488	1158.053	38.854	37.357	44.147	33.128	79.571	13.500	1.065
Nov	1115.741	1063.776	37.191	35.459	39.213	31.877	62.593	0.011	0.501
Dec	1178.720	1120.037	38.023	36.130	40.719	32.089	54.701	8.371	2.134
TOTAL	15812.414	14693.143							58.994
MIN						25.466		0.011	0.439
MAX					69.630		91.605		46.946
AVG		1224.429	43.181	40.124					4.916

*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

2020	AVERAGE DAY	% OF RATED CAPACITY	MAX. DAY	% OF RATED CAPACITY	MAX. FLOW RATE	% OF RATED CAPACITY
Date	Treated (ML)		Treated (ML)		Treated (ML/d)	
Jan	35.851	24.6%	41.036	28.2%	58.100	39.9%
Feb	37.448	25.7%	42.226	29.0%	76.681	52.7%
Mar	35.050	24.1%	39.546	27.2%	56.045	38.5%
Apr	32.917	22.6%	36.344	25.0%	61.459	42.2%
May	36.864	25.3%	49.087	33.7%	79.496	54.6%
Jun	45.774	31.5%	57.581	39.6%	78.517	54.0%
Jul	54.142	37.2%	69.630	47.9%	65.583	45.1%
Aug	50.651	34.8%	59.930	41.2%	91.605	63.0%
Sep	43.842	30.1%	49.622	34.1%	83.594	57.5%
Oct	37.357	25.7%	44.147	30.3%	79.571	54.7%
Nov	35.459	24.4%	39.213	27.0%	62.593	43.0%
Dec	36.130	24.8%	40.719	28.0%	54.701	37.6%