



Niagara Falls Water Treatment Plant

Regional Municipality of Niagara

2022 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2022

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-102

Drinking Water Works Permit # 007-202

Niagara Falls Water Treatment Plant - 2022 Summary Report

This report summarizes the water flows for the Niagara Falls Water Treatment Plant, drinking water system number 220002084, from January 1 to December 31, 2022.

This report satisfies the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

Inspection Rating

The Niagara Falls Water Treatment Plant was granted a 100% inspection rating during the 2022 Ministry of Environment, Conservation and Parks annual drinking water system inspection.

Summary of Non-Compliance

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.

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)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	1231.35	1135.42	76.958	36.545	42.752	53.648	32.568	53.65	1.38
Feb	1218.157	1092.686	84.01	39.047	44.194	57.333	35.842	57.33	2.037
Mar	1315.687	1210.145	82.23	39.073	49.173	67.668	34.585	67.67	1.23
Apr	1238.086	1169.241	79.876	39.06	42.397	64.509	33.92	64.51	3.91
May	1450.918	1358.341	90.682	43.796	47.278	74.873	38.071	74.87	0
Jun	1525.318	1418.237	98.407	47.41	51.055	79.754	38.156	79.75	0
Jul	1754.979	1642.946	109.686	52.904	54.277	82.58	44.464	82.58	0
Aug	1644.008	1543.677	102.75	49.917	53.739	82.054	43.691	82.05	.8
Sep	1385.113	1302.119	89.362	43.352	45.287	84.086	37.176	84.09	8.4
Oct	1318.223	1244.316	82.388	40.135	45.21	58.929	35.3	58.93	0
Nov	1189.058	1122.666	76.713	37.363	43.125	66.129	43.15	66.13	1.5
Dec	1229.061	1150.154	76.816	37.185	40.394	57.631	40.39	55.63	1.2

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	16499.958	15389.95							17.147
Min						53.648		53.65	0
Max					40.394		32.568		8.4
Avg			87.489	42.146					

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-102.

- Maximum daily flow: 145.500 ML
- Maximum flow rate: 145.500 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	36.626	25%	40.337	28%	53.65	37%
Feb	39.024	27%	43.217	30%	57.33	40%
Mar	39.036	27%	42.525	29%	67.67	47%
Apr	38.974	27%	42.532	29%	64.51	44%
May	43.817	30%	51.576	36%	74.87	52%
Jun	47.274	33%	53.307	37%	79.75	55%
Jul	52.998	37%	62.542	43%	82.58	57%
Aug	49.796	34%	58.083	40%	82.05	57%
Sep	43.403	30%	61.687	43%	84.09	58%
Oct	40.139	28%	47.77	33%	58.93	41%
Nov	37.422	26%	41.385	29%	66.13	46%
Dec	37.101	26%	46.399	32%	55.63	40%