



**2021 Summary Report**

(Prepared under Ontario Regulation 170/03)

**Grimsby Water Treatment Plant**

The Regional Municipality of Niagara

**January 1 to December 31, 2021**

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-105

Drinking Water Works Permit # 007-205

## Grimsby Water Treatment Plant - 2021 Summary Report

This report summarizes the water flows for the Grimsby Water Treatment Plant, drinking water system number 220007150, from January 1 to December 31, 2021.

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

### Summary of Non-Compliance

The Grimsby 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.

Date	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	354.617	401.412	11.439	12.970	9.421	12.496	6.462	18.085	0.568
Feb	344.335	384.032	12.298	13.738	10.473	15.320	7.344	19.135	0.421
Mar	378.371	420.905	12.206	13.604	10.356	13.381	3.655	18.537	0.611
Apr	366.201	406.680	12.207	13.578	10.275	13.881	7.287	18.776	0.690
May	529.449	548.862	17.079	17.731	10.798	26.289	5.304	32.916	2.035
Jun	542.048	563.054	18.068	18.790	14.342	23.187	4.569	31.376	0.637
Jul	482.017	508.860	15.549	16.434	10.446	21.967	9.348	27.458	0.632
Aug	584.020	598.168	18.839	19.317	12.313	24.669	10.159	30.231	0.805
Sep	419.781	448.926	13.993	14.984	10.986	20.160	9.304	23.110	0.915
Oct	368.375	398.957	11.883	12.892	10.449	15.945	8.451	21.147	2.133
Nov	325.752	370.365	10.858	12.364	9.084	12.264	7.402	17.166	0.670
Dec	329.650	377.945	10.634	12.211	8.847	12.324	7.139	16.999	0.556

Stat	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	5024.616	5428.166							10.673
Min					8.847		3.655		0.421
Max						26.289		32.916	2.133

Stat	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)
Avg		452.347	13.754	14.884					0.889

### Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-105.

- Maximum daily flow: 44.000 ML
- Maximum flow rate: 44.000 ML/day

Date	Average Day Treated (ML)	% of Rated Capacity	Maximum Day Treated (ML)	% of Rated Capacity	Maximum Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	12.970	29.5%	12.496	28.4%	18.085	41.1%
Feb	13.738	31.2%	15.320	34.8%	19.135	43.5%
Mar	13.604	30.9%	13.381	30.4%	18.537	42.1%
Apr	13.578	30.9%	13.881	31.5%	18.776	42.7%
May	17.731	40.3%	26.289	59.7%	32.916	74.8%
Jun	18.790	42.7%	23.187	52.7%	31.376	71.3%
Jul	16.434	37.4%	21.967	49.9%	27.458	62.4%
Aug	19.317	43.9%	24.669	56.1%	30.231	68.7%
Sep	14.984	34.1%	20.160	45.8%	23.110	52.5%
Oct	12.892	29.3%	15.945	36.2%	21.147	48.1%
Nov	12.364	28.1%	12.264	27.9%	17.166	39.0%
Dec	12.211	27.8%	12.324	28.0%	16.999	38.6%