



**2021 Summary Report**

(Prepared under Ontario Regulation 170/03)

**Rosehill 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 # 007-103

Drinking Water Works Permit # 007-203

## Rosehill Water Treatment Plant - 2021 Summary Report

This report summarizes the water flows for the Rosehill Water Treatment Plant, drinking water system number 220002020, 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 Rosehill 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	328.875	300.911	10.609	9.707	8.835	10.317	4.664	20.997	18.233
Feb	318.043	293.175	11.359	10.471	9.520	13.083	5.103	22.671	13.735
Mar	351.477	322.850	11.338	10.415	9.352	11.693	5.493	21.236	13.718
Apr	346.640	318.897	11.555	10.630	9.647	11.965	5.166	25.772	16.758
May	413.050	384.898	13.324	12.416	9.930	15.603	5.619	28.510	13.809
Jun	452.480	416.907	15.083	13.897	11.014	16.388	5.142	24.089	19.320
Jul	415.708	383.944	13.410	12.385	11.251	15.105	5.044	23.742	12.448
Aug	470.786	433.136	15.187	13.972	11.233	15.981	3.603	27.407	19.320
Sep	417.139	382.563	13.905	12.752	10.915	15.618	1.850	26.371	16.766
Oct	382.045	358.257	12.324	11.557	10.207	12.770	5.257	29.217	16.840
Nov	363.042	333.681	12.101	11.123	10.072	11.890	2.137	23.627	16.668
Dec	374.892	344.996	12.093	11.129	9.777	15.855	1.994	23.452	15.345

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)
<b>Total</b>	4634.177	4274.215							192.960
<b>Min</b>					8.835		1.850		12.448
<b>Max</b>						16.388		29.217	19.320
<b>Avg</b>		356.185	12.691	11.705					16.080

### Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-103.

- Maximum daily flow: 50.000 ML
- Maximum flow rate: 50.000 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
<b>Jan</b>	9.707	19.4%	10.317	20.6%	20.997	42.0%
<b>Feb</b>	10.471	20.9%	13.083	26.2%	22.671	45.3%
<b>Mar</b>	10.415	20.8%	11.693	23.4%	21.236	42.5%
<b>Apr</b>	10.630	21.3%	11.965	23.9%	25.772	51.5%
<b>May</b>	12.416	24.8%	15.603	31.2%	28.510	57.0%
<b>Jun</b>	13.897	27.8%	16.388	32.8%	24.089	48.2%
<b>Jul</b>	12.385	24.8%	15.105	30.2%	23.742	47.5%
<b>Aug</b>	13.972	27.9%	15.981	32.0%	27.407	54.8%
<b>Sep</b>	12.752	25.5%	15.618	31.2%	26.371	52.7%
<b>Oct</b>	11.557	23.1%	12.770	25.5%	29.217	58.4%
<b>Nov</b>	11.123	22.2%	11.890	23.8%	23.627	47.3%
<b>Dec</b>	11.129	22.3%	15.855	31.7%	23.452	46.9%