



Rosehill Water Treatment Plant

Regional Municipality of Niagara

2023 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2023

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-103

Drinking Water Works Permit # 007-203

Rosehill Water Treatment Plant - 2023 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, 2023

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

Inspection Rating

The Rosehill Water Treatment Plant was granted a 100% inspection rating during the 2022-2023 Ministry of Environment, Conservation and Parks annual drinking water system inspection.

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.

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	402.552	373.605	12.986	12.052	10.729	18.412	6.272	27.785	13.715
Feb	345.887	325.209	12.353	11.615	10.609	12.465	5.616	23.240	18.263
Mar	378.412	353.129	12.207	11.391	10.703	12.186	5.700	23.981	13.715
Apr	379.761	360.931	12.659	12.031	11.220	15.948	11.100	14.108	18.095
May	449.679	439.172	14.506	14.167	11.683	18.267	6.192	30.222	16.865
Jun	475.427	472.758	15.848	15.759	12.666	19.728	7.754	36.371	25.199
Jul	453.139	460.984	14.617	14.870	13.147	16.871	7.618	25.017	18.962
Aug	424.361	428.440	13.689	13.821	12.421	15.467	1.527	25.035	19.866
Sep	409.483	400.195	13.649	13.340	12.249	15.051	6.108	24.719	18.644
Oct	378.817	363.317	12.220	11.720	10.647	14.317	4.370	26.691	20.626
Nov	339.183	322.664	11.306	10.755	10.101	11.571	5.263	23.682	18.558
Dec	348.088	337.615	11.229	10.891	9.944	11.490	5.878	22.098	18.644

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	4784.789	4638.019							221.152
Min					9.944		1.527		13.715
Max						19.728		36.371	25.199

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)
Avg			13.106	12.701					18.429

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

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	12.052	24%	18.412	37%	27.785	56%
Feb	11.615	23%	12.465	25%	23.240	46%
Mar	11.391	23%	12.186	24%	23.981	48%
Apr	12.031	24%	15.948	32%	14.108	28%
May	14.167	28%	18.267	37%	30.222	60%
Jun	15.759	32%	19.728	39%	36.371	73%
Jul	14.870	30%	16.871	34%	25.017	50%
Aug	13.821	28%	15.467	31%	25.035	50%
Sep	13.340	27%	15.051	30%	24.719	49%
Oct	11.720	23%	14.317	29%	26.691	53%
Nov	10.755	22%	11.571	23%	23.682	47%
Dec	10.891	22%	11.490	23%	22.098	44%