



REGIONAL MUNICIPALITY OF NIAGARA
Public Works Department
Water & Wastewater Services Division

ROSEHILL WATER TREATMENT PLANT

ANNUAL SUMMARY REPORT

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2019

Ministry of the Environment, Conservation and Parks

Drinking Water Works Permit # 007-203
Municipal Drinking Water License # 007-103

1. Failure to meet with the requirements of the Act, the regulation, the system's approval:

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.

2. A summary of flows for the reporting period January 1, 2019 – December 31, 2019:

2019	TOTAL FLOW Raw (ML)	TOTAL FLOW Treated (ML)	AVERAGE DAY Raw (ML)	AVERAGE DAY Treated (ML)	MAX DAY Treated (ML)	MIN. DAY Treated (ML)	MAX. FLOW RATE Treated (ML/d)	MIN. FLOW RATE Treated (ML/d)	WASTE SLUDGE (ML)
Jan	396.374	365.684	12.786	11.796	12.725	11.129	17.145	4.154	17.485
Feb	371.194	332.694	13.257	11.882	17.177	11.457	14.642	10.890	16.564
Mar	381.340	353.816	12.301	11.413	12.947	10.001	16.922	3.532	16.064
Apr	338.395	310.125	11.280	10.338	11.297	9.529	25.977	1.594	15.052
May	373.221	323.061	12.039	10.421	12.103	9.116	14.425	3.362	9.845
Jun	402.511	351.593	13.417	11.720	13.755	10.047	25.402	2.193	15.843
Jul	483.770	422.350	15.605	13.624	16.060	10.893	26.693	2.364	18.377
Aug	469.922	415.781	15.159	13.412	16.192	11.428	24.885	6.228	15.278
Sep	380.508	334.449	12.684	11.148	12.750	9.800	21.667	3.843	19.523
Oct	346.349	301.572	11.173	9.728	10.771	8.828	40.949	1.479	18.650
Nov	331.961	285.102	11.065	9.503	11.567	8.804	25.569	1.460	15.747
Dec	338.996	287.254	10.935	9.266	10.180	8.547	17.980	1.143	23.433
TOTAL	4,614.541	4,083.481							201.861
MIN						8.547		1.143	9.845
MAX					17.177		40.949		23.433
AVG			12.642	11.188					16.822

*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 flows

3. A comparison of actual flows to that of the flow rates set out in the system's approval:

Flow rates as set in:

- Drinking Water Works Permit # 007-203
- Municipal Drinking Water License # 007-103

Maximum daily flow: 50.000 ML
Maximum flow rate: 50.000 ML/day

2019	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	11.796	24%	12.725	25%	17.145	34%
Feb	11.882	24%	17.177	34%	14.642	29%
Mar	11.413	23%	12.947	26%	16.922	34%
Apr	10.338	21%	11.297	23%	25.977	52%
May	10.421	21%	12.103	24%	14.425	29%
Jun	11.720	23%	13.755	28%	25.402	51%
Jul	13.624	27%	16.060	32%	26.693	53%
Aug	13.412	27%	16.192	32%	24.885	50%
Sep	11.148	22%	12.750	26%	21.667	43%
Oct	9.728	19%	10.771	22%	40.949	82%
Nov	9.503	19%	11.567	23%	25.569	51%
Dec	9.266	19%	10.180	20%	17.980	36%