

Appendix 3: WTP Reserve Capacities for 2021

Water Treatment Plant	Permit To Take Water ⁽¹⁾	Rated Treatment Capacity	Theoretical Ave Day Capacity	90% of Ave Day Capacity ⁽²⁾	5-Year Ave Day Flow	Peaking Factor	Total Capacity Used	Reserve Treatment Capacity	Design Flow Rate	Reserve Serviceable Population	10-Year Forecast Population	Surplus Population
	MLD							90% MLD	275 Lpcd	Equivalents	Res & Emp	Projection
DeCew Falls	227.0	227.3	150.8	135.7	53.6	1.507	36%	82.1	275	298,545	30,398	268,147
Grimsby	44.0	44.0	26.9	24.2	14.7	1.637	55%	9.5	275	34,545	14,771	19,774
Niagara Falls	145.5	145.6	91.6	82.4	42.7	1.590	47%	39.8	275	144,727	23,782	120,945
Port Colborne	45.5	36.0	22.7	20.4	7.6	1.589	34%	12.8	275	46,545	1,552	44,993
Rosehill	78.0	50.0	33.0	29.7	11.8	1.514	36%	17.9	275	65,091	6,375	58,716
Welland	110.0	65.0	43.7	39.3	23.2	1.487	53%	16.1	275	58,545	12,292	46,253

Note 1: Original MOE approved quantity of raw water permitted (Permit To Take Water).

Note 2: Region's W&WW MSP (GM BluePlan, 2017) requires planning process for expansion when plant capacity exceeds 80%, and expansion should be completed when capacity exceeds 90%.