

### Appendix 3: WTP Reserve Capacities for 2020

| Water Treatment Plant | Permit To Take Water <sup>(1)</sup> | Rated Treatment Capacity | Theoretical Average Day Capacity | 90% of Average Day Capacity <sup>(3)</sup> | 5-Year Average Day Flow | Peaking Factor <sup>(2)</sup> | Total Capacity Used | Reserve Treatment Capacity (90% base) MLD | Design Flow Rate (275 Lcd) | Reserve Serviceable Population Equivalents | 10-Year Forecast For Population (Res & Emp) | Surplus Population 10-Year Projection |
|-----------------------|-------------------------------------|--------------------------|----------------------------------|--|-------------------------|-------------------------------|---------------------|---|----------------------------|--|---|---------------------------------------|
|                       | MLD                                 |                          |                                  |  |                         |                               |                     |   |                            |  |   |                                       |
| DeCew Falls WTP       | 227.0                               | 227.3                    | 143.4                            | 129.1                                      | 54.4                    | 1.585                         | 38%                 | 74.7                                      | 275                        | 271,636                                    | 30,398                                      | 241,238                               |
| Grimsby WTP           | 44.0                                | 44.0                     | 26.5                             | 23.9                                       | 14.9                    | 1.658                         | 56%                 | 9.0                                       | 275                        | 32,727                                     | 14,771                                      | 17,956                                |
| Niagara Falls WTP     | 145.5                               | 145.6                    | 88.2                             | 79.4                                       | 44.2                    | 1.650                         | 50%                 | 35.2                                      | 275                        | 128,000                                    | 23,782                                      | 104,218                               |
| Port Colborne WTP     | 45.5                                | 36.0                     | 22.4                             | 20.2                                       | 7.9                     | 1.608                         | 35%                 | 12.3                                      | 275                        | 44,727                                     | 1,552                                       | 43,175                                |
| Rosehill WTP          | 78.0                                | 50.0                     | 31.8                             | 28.6                                       | 12.1                    | 1.573                         | 38%                 | 16.5                                      | 275                        | 60,000                                     | 6,375                                       | 53,625                                |
| Welland WTP           | 110.0                               | 65.0                     | 43.4                             | 39.1                                       | 22.6                    | 1.499                         | 52%                 | 16.4                                      | 275                        | 59,636                                     | 12,292                                      | 47,344                                |

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

Note 2: The peaking factors used are based on an average of actual flow rates of maximum day versus average day flows over the past three years at each facility.

Note 3: 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%.