

**Table 1.4 Future Climate IDF Curves for Burgeo (8400801) – 2011-2040 Time Horizon**

| Minimum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
|---------------------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 6.1                     | 7.8   | 8.8   | 9.8   | 10.1  | 11.0  | 11.9  |
| 10-min                                      | 8.6                     | 10.9  | 12.1  | 13.4  | 13.7  | 14.9  | 16.1  |
| 15-min                                      | 10.7                    | 13.6  | 15.2  | 16.8  | 17.3  | 18.8  | 20.3  |
| 30-min                                      | 14.7                    | 18.1  | 20.0  | 21.8  | 22.4  | 24.1  | 25.9  |
| 1-hr                                        | 20.1                    | 24.3  | 26.6  | 28.8  | 29.5  | 31.7  | 33.9  |
| 2-hr                                        | 28.8                    | 34.7  | 38.1  | 41.2  | 42.3  | 45.4  | 48.5  |
| 6-hr                                        | 47.1                    | 56.6  | 62.0  | 67.1  | 68.7  | 73.7  | 78.7  |
| 12-hr                                       | 60.6                    | 71.3  | 77.3  | 83.1  | 84.9  | 90.6  | 96.2  |
| 24-hr                                       | 73.2                    | 85.9  | 93.0  | 99.7  | 101.9 | 108.5 | 115.0 |
| Median Projected Precipitation Amount (mm)  |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 6.6                     | 8.6   | 9.8   | 10.9  | 11.3  | 12.4  | 13.6  |
| 10-min                                      | 9.3                     | 11.8  | 13.4  | 14.8  | 15.3  | 16.8  | 18.3  |
| 15-min                                      | 11.6                    | 14.8  | 16.8  | 18.7  | 19.3  | 21.1  | 23.0  |
| 30-min                                      | 15.8                    | 19.5  | 21.8  | 24.0  | 24.7  | 26.8  | 29.0  |
| 1-hr                                        | 21.4                    | 26.0  | 28.8  | 31.5  | 32.3  | 35.0  | 37.7  |
| 2-hr                                        | 30.7                    | 37.3  | 41.3  | 45.1  | 46.3  | 50.1  | 54.0  |
| 6-hr                                        | 50.1                    | 60.6  | 67.0  | 73.1  | 75.1  | 81.1  | 87.2  |
| 12-hr                                       | 64.0                    | 75.8  | 83.0  | 89.9  | 92.1  | 98.9  | 105.8 |
| 24-hr                                       | 77.3                    | 91.4  | 99.8  | 108.0 | 110.6 | 118.6 | 126.9 |
| Maximum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 7.9                     | 10.9  | 12.8  | 14.7  | 15.3  | 17.2  | 19.0  |
| 10-min                                      | 10.9                    | 14.7  | 17.2  | 19.7  | 20.4  | 22.8  | 25.1  |
| 15-min                                      | 13.6                    | 18.4  | 21.6  | 24.7  | 25.7  | 28.7  | 31.6  |
| 30-min                                      | 18.1                    | 23.7  | 27.4  | 31.0  | 32.1  | 35.6  | 39.1  |
| 1-hr                                        | 24.3                    | 31.2  | 35.8  | 40.1  | 41.5  | 45.8  | 50.1  |
| 2-hr                                        | 34.8                    | 44.8  | 51.3  | 57.7  | 59.7  | 65.8  | 72.0  |
| 6-hr                                        | 56.5                    | 72.1  | 82.5  | 92.5  | 95.6  | 105.4 | 115.0 |
| 12-hr                                       | 71.2                    | 88.9  | 100.6 | 111.8 | 115.4 | 126.4 | 137.3 |
| 24-hr                                       | 86.1                    | 107.2 | 121.2 | 134.7 | 138.9 | 152.1 | 165.1 |

**Table 1.5 Future Climate IDF Curves for Burgeo (8400801) – 2041-2070 Time Horizon**

| Minimum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
|---------------------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 6.3                     | 8.2   | 9.5   | 10.7  | 11.1  | 12.3  | 13.4  |
| 10-min                                      | 8.8                     | 11.3  | 13.0  | 14.5  | 15.0  | 16.6  | 18.0  |
| 15-min                                      | 11.0                    | 14.2  | 16.2  | 18.2  | 18.9  | 20.8  | 22.7  |
| 30-min                                      | 15.1                    | 18.8  | 21.2  | 23.5  | 24.2  | 26.5  | 28.6  |
| 1-hr                                        | 20.6                    | 25.1  | 28.0  | 30.9  | 31.8  | 34.6  | 37.2  |
| 2-hr                                        | 29.5                    | 35.9  | 40.2  | 44.3  | 45.6  | 49.6  | 53.3  |
| 6-hr                                        | 48.2                    | 58.4  | 65.2  | 71.7  | 73.7  | 80.1  | 86.3  |
| 12-hr                                       | 61.8                    | 73.3  | 81.0  | 88.3  | 90.6  | 97.8  | 104.7 |
| 24-hr                                       | 74.7                    | 88.4  | 97.5  | 106.2 | 109.0 | 117.5 | 125.4 |
| Median Projected Precipitation Amount (mm)  |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 7.4                     | 9.7   | 11.0  | 12.4  | 12.8  | 14.2  | 15.5  |
| 10-min                                      | 10.3                    | 13.2  | 14.9  | 16.7  | 17.2  | 19.0  | 20.7  |
| 15-min                                      | 12.9                    | 16.5  | 18.8  | 20.9  | 21.7  | 23.9  | 26.1  |
| 30-min                                      | 17.3                    | 21.5  | 24.1  | 26.6  | 27.5  | 30.0  | 32.6  |
| 1-hr                                        | 23.2                    | 28.5  | 31.7  | 34.8  | 35.8  | 39.0  | 42.1  |
| 2-hr                                        | 33.3                    | 40.8  | 45.4  | 49.9  | 51.3  | 55.9  | 60.4  |
| 6-hr                                        | 54.1                    | 66.1  | 73.4  | 80.5  | 82.8  | 90.0  | 97.2  |
| 12-hr                                       | 68.6                    | 82.0  | 90.3  | 98.3  | 100.9 | 109.0 | 117.1 |
| 24-hr                                       | 82.9                    | 98.8  | 108.6 | 118.1 | 121.2 | 130.9 | 140.5 |
| Maximum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 8.8                     | 12.2  | 14.7  | 17.1  | 17.9  | 20.2  | 22.6  |
| 10-min                                      | 12.1                    | 16.4  | 19.6  | 22.6  | 23.6  | 26.6  | 29.6  |
| 15-min                                      | 15.1                    | 20.5  | 24.5  | 28.4  | 29.7  | 33.5  | 37.2  |
| 30-min                                      | 19.9                    | 26.1  | 30.8  | 35.3  | 36.8  | 41.2  | 45.6  |
| 1-hr                                        | 26.5                    | 34.2  | 40.0  | 45.5  | 47.3  | 52.7  | 58.1  |
| 2-hr                                        | 38.0                    | 49.1  | 57.4  | 65.5  | 68.0  | 75.9  | 83.6  |
| 6-hr                                        | 61.4                    | 78.8  | 91.9  | 104.5 | 108.5 | 120.8 | 133.0 |
| 12-hr                                       | 76.8                    | 96.4  | 111.3 | 125.5 | 130.0 | 143.9 | 157.7 |
| 24-hr                                       | 92.8                    | 116.4 | 134.2 | 151.3 | 156.7 | 173.3 | 189.9 |

**Table 1.6 Future Climate IDF Curves for Burgeo (8400801) – 2071-2100 Time Horizon**

| Minimum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
|---------------------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 6.5                     | 8.4   | 9.7   | 10.9  | 11.3  | 12.4  | 13.5  |
| 10-min                                      | 9.1                     | 11.6  | 13.2  | 14.7  | 15.2  | 16.7  | 18.1  |
| 15-min                                      | 11.4                    | 14.5  | 16.6  | 18.5  | 19.2  | 21.0  | 22.9  |
| 30-min                                      | 15.6                    | 19.2  | 21.6  | 23.8  | 24.5  | 26.7  | 28.8  |
| 1-hr                                        | 21.1                    | 25.6  | 28.5  | 31.3  | 32.2  | 34.9  | 37.5  |
| 2-hr                                        | 30.3                    | 36.7  | 40.9  | 44.9  | 46.2  | 50.0  | 53.7  |
| 6-hr                                        | 49.4                    | 59.6  | 66.3  | 72.7  | 74.7  | 80.8  | 86.8  |
| 12-hr                                       | 63.2                    | 74.8  | 82.2  | 89.4  | 91.7  | 98.6  | 105.3 |
| 24-hr                                       | 76.4                    | 90.1  | 99.0  | 107.5 | 110.2 | 118.2 | 126.2 |
| Median Projected Precipitation Amount (mm)  |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 7.6                     | 10.0  | 11.6  | 13.1  | 13.6  | 15.1  | 16.5  |
| 10-min                                      | 10.6                    | 13.6  | 15.6  | 17.6  | 18.2  | 20.1  | 21.9  |
| 15-min                                      | 13.2                    | 17.0  | 19.6  | 22.1  | 22.9  | 25.3  | 27.6  |
| 30-min                                      | 17.7                    | 22.1  | 25.1  | 28.0  | 28.9  | 31.7  | 34.4  |
| 1-hr                                        | 23.7                    | 29.2  | 32.8  | 36.4  | 37.6  | 41.0  | 44.4  |
| 2-hr                                        | 33.9                    | 41.9  | 47.1  | 52.2  | 53.9  | 58.9  | 63.6  |
| 6-hr                                        | 55.1                    | 67.7  | 76.0  | 84.1  | 86.7  | 94.8  | 102.3 |
| 12-hr                                       | 69.6                    | 83.8  | 93.2  | 102.3 | 105.4 | 114.4 | 122.9 |
| 24-hr                                       | 84.2                    | 101.1 | 112.2 | 123.1 | 126.7 | 137.2 | 147.3 |
| Maximum Projected Precipitation Amount (mm) |                         |       |       |       |       |       |       |
| Duration                                    | Return Interval (years) |       |       |       |       |       |       |
|                                             | 2                       | 5     | 10    | 20    | 25    | 50    | 100   |
| 5-min                                       | 9.8                     | 14.0  | 17.1  | 20.0  | 21.0  | 23.9  | 26.7  |
| 10-min                                      | 13.3                    | 18.7  | 22.6  | 26.4  | 27.6  | 31.2  | 34.9  |
| 15-min                                      | 16.7                    | 23.4  | 28.4  | 33.1  | 34.6  | 39.3  | 43.9  |
| 30-min                                      | 21.7                    | 29.6  | 35.3  | 40.8  | 42.6  | 47.9  | 53.3  |
| 1-hr                                        | 28.7                    | 38.4  | 45.5  | 52.3  | 54.4  | 61.1  | 67.7  |
| 2-hr                                        | 41.2                    | 55.2  | 65.4  | 75.2  | 78.3  | 87.9  | 97.4  |
| 6-hr                                        | 66.4                    | 88.3  | 104.3 | 119.6 | 124.5 | 139.5 | 154.4 |
| 12-hr                                       | 82.4                    | 107.2 | 125.2 | 142.6 | 148.1 | 165.0 | 181.9 |
| 24-hr                                       | 99.7                    | 129.4 | 151.1 | 172.0 | 178.6 | 199.0 | 219.2 |