**MONTHLY REPORT UF-3 CT DETERMINATION FOR SURFACE WATER SYSTEMS**

Month       Year       PWS ID#       System

Prepared by       Date

Spreadsheet to determine disinfection inactivation ratio (I.R.) based upon the formula:

CT required = 0.3 x pH^2.69 x c^0.15 x (log reduction) x 0.933^(temp-5)

Total Log Reduction Required       Baffling Factor

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DAY | Disinfectant Concentration(mg/L) | Peak hourly Flow (GPM) | Minimum Operating Volume (GPM) | Effective Volume(gal) | Disinfectant Contact Time (T10) | CT calc=(CxT) | pH of Plant Effluent | Water Temp(°C) | CT req’d | Inactivation Ratio(I.R.) |
| 1 |       |       |       |       |       |       |       |       |       |       |
| 2 |       |       |       |       |       |       |       |       |       |       |
| 3 |       |       |       |       |       |       |       |       |       |       |
| 4 |       |       |       |       |       |       |       |       |       |       |
| 5 |       |       |       |       |       |       |       |       |       |       |
| 6 |       |       |       |       |       |       |       |       |       |       |
| 7 |       |       |       |       |       |       |       |       |       |       |
| 8 |       |       |       |       |       |       |       |       |       |       |
| 9 |       |       |       |       |       |       |       |       |       |       |
| 10 |       |       |       |       |       |       |       |       |       |       |
| 11 |       |       |       |       |       |       |       |       |       |       |
| 12 |       |       |       |       |       |       |       |       |       |       |
| 13 |       |       |       |       |       |       |       |       |       |       |
| 14 |       |       |       |       |       |       |       |       |       |       |
| 15 |       |       |       |       |       |       |       |       |       |       |
| 16 |       |       |       |       |       |       |       |       |       |       |
| 17 |       |       |       |       |       |       |       |       |       |       |
| 18 |       |       |       |       |       |       |       |       |       |       |
| 19 |       |       |       |       |       |       |       |       |       |       |
| 20 |       |       |       |       |       |       |       |       |       |       |
| 21 |       |       |       |       |       |       |       |       |       |       |
| 22 |       |       |       |       |       |       |       |       |       |       |
| 23 |       |       |       |       |       |       |       |       |       |       |
| 24 |       |       |       |       |       |       |       |       |       |       |
| 25 |       |       |       |       |       |       |       |       |       |       |
| 26 |       |       |       |       |       |       |       |       |       |       |
| 27 |       |       |       |       |       |       |       |       |       |       |
| 28 |       |       |       |       |       |       |       |       |       |       |
| 29 |       |       |       |       |       |       |       |       |       |       |
| 30 |       |       |       |       |       |       |       |       |       |       |
| 31 |       |       |       |       |       |       |       |       |       |       |