| Worksheet 11: Capture Efficiency and Multiplier Method for Flow-Based Biotreatment BMPs | | | | |
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| Part 1: Determine the design storm intensity and flow rate | | | | | |
| 1 | Enter the time of concentration, Tc (min) (See Section E.2.3) | Tc= |  | min |
| 2 | If Tc is less than 20 minutes, then use I1 = 0.2 in/hr. Otherwise, using Figure E-7or the figure included in the worksheet, determine the design intensity at which the estimated time of concentration (Tc) achieves 80% capture efficiency, *I1* | I1= |  | in/hr |
| 3a | Enter DMA area tributary to BMP (s), *A* (acres) | A= |  | acres |
| 3b | Enter DMA Imperviousness, imp (unitless) | imp= |  |  |
| 3c | Calculate runoff coefficient, *c= (0.75 x imp) + 0.15* | c= |  |  |
| 3d | Calculate design flowrate, *Q= (c x Idesign x A)* | Q= |  | cfs |
| Supporting Calculations | | | | | |
| Describe system: | | | | |
| Provide time of concentration assumptions: | | | | |
| Graphical Operations | | | | | |
| Provide supporting graphical operations. | | | | |