

Strict Anti-Deg Method

TSS

$$(Q_{\text{discharge}} \times C_{\text{discharge}}) + (Q_{\text{upstream}} \times C_{\text{upstream}}) = (Q_{\text{total}} \times C_{\text{total}})$$

$Q_{\text{discharge}}$	10 GPM	Average discharge flow (from cell B6 in sheet discharge)
$C_{\text{discharge}}$	mg/L	Discharge concentration (factor being solved for)
Q_{upstream}	467 GPM	Upstream flow (harmonic mean flow from StreamStats)
C_{upstream}	5.67 mg/L	Upstream concentration (mean TSS concentration, from cell N10 in sheet US)
Q_{total}	477 GPM	Combined downstream flow ($Q_{\text{discharge}} + Q_{\text{upstream}}$)
C_{total}	6.37 mg/L	TSS concentration, from cell N18 in sheet US)

Calculation Result (LTA): 39.06

Resulting Monthly Average: 67.18

Resulting Daily Maximum: 134.37

Reesulting Instantaneous Maximum: 167.96