

As

$$\text{For } Q_{\text{max}} \text{ wpts} = 0.07 \text{ mgd}$$

$$Q_{003A} = 5.29 \text{ mgd}$$

$$\text{exit load} = \frac{0.0019}{\text{mgd}} \times 6.3 \times 8.34$$

$$= 0.1165/\text{day}$$

limit at 003A in mgd to hold load:

$$\text{mgd} = \frac{0.1165/\text{day}}{5.29 \text{ mgd} \times 8.34} = 0.0022666 \text{ mgd}$$

limit @ 003C to hold load:

$$K_{\text{max}} \text{ wpts} = K_{\text{max}} \text{ TP} \times \frac{0.0019 \text{ mgd}}{0.07 \text{ mgd}} = 0.0293 \text{ mg/l}$$

Hg

$$\text{For } Q_{\text{max}} \text{ wpts} = 0.07 \text{ mgd}$$

$$Q_{003A} = 5.29 \text{ mgd}$$

$$\text{exit load} = 0.000006 \text{ mgd} \times 6.3 \text{ mgd} \times 8.34$$

$$= 0.000315 \text{ lbs/day}$$

limit @ 003A in mgd to hold load:

$$\text{mgd} = \frac{0.000315 \text{ lbs/day}}{5.29 \text{ mgd} \times 8.34} = 0.00000714 \text{ mgd}$$

(0.00714 mg/l)

Limit @ 003C in mgd to hold load:

$$K_{\text{max}} \text{ wpts} = K_{\text{max}} \text{ TP} \times \frac{0.000006}{0.07} = 0.0000926 \text{ mg/l}$$

(0.093 mg/l)