

# LABORATORY & TESTING

## Percent Removal:

$$\% \text{ Removal} = ((\text{Influent} - \text{Effluent}) \div \text{Influent}) \times 100$$

## BOD Loading:

$$\text{BOD Loading} = Q \times \text{BOD} \times 8.34$$

**Units:** lbs/day

## Population Equivalent:

$$\text{PE} = (\text{Flow} \times \text{BOD}) \div (100 \text{ gpcd} \times 0.2 \text{ lbs BOD/capita/day})$$

## Solids Calculations:

$$\% \text{ Solids} = (\text{Dry Weight} \div \text{Wet Weight}) \times 100$$

$$\% \text{ Volatile Solids} = (\text{VS} \div \text{TS}) \times 100$$