



# Calculation of Wastewater Strength Multiplier / Factor

Customer Class	Estimated Strength (mg/L)		Strength Multiplier / Factor (Rounded)
	BOD*	TSS**	
<b>Residential</b>			
Single Family	175	175	1.0
Multi Family	175	175	1.0
<b>Commercial</b>			
Car Washes	30	230	0.9
Cleaners	300	160	1.2
Laundromats	100	95	0.75
Restaurants with grease traps	440	265	1.6
Restaurants without grease traps	550	300	1.8
Gymnasiums	150	150	0.9
Other commercial use	175	175	1.0

**FORMULA:**

$$\text{Strength Multiplier / Factor} = 44\% + (28\% \times (\text{BOD} + \text{TSS})/175)$$

\*BOD = Biochemical Oxygen Demand

\*\*TSS = Total Suspended Solids