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Revisions are shown in red.

Exam Specifications, p. 4:

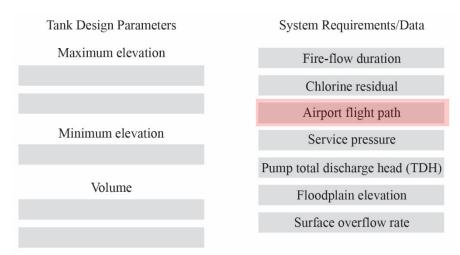
• The exam uses both the International System of units (SI) and the US Customary System (USCS).

Question 66, p. 46:

The primary clarifier of a trickling filter plant receives 1,000 lb of solids daily. The clarifier has a solids capture rate of 90% and produces an underflow sludge concentration of 9% with a SG of 1. The volume of primary sludge (ft^3/day) is most nearly:

Question 76, p. 50:

The illustration should read as follows:



Question 79, p. 52:

The illustration should read as follows:

| 0 | | 1. | 50 2 | 75 |
|-------------------|-----------------|----|---------------------|----|
| Carbon dioxide | Calcium 150 | | Other cations 125 | |
| 50 | Bicarbonate 120 | (| Other anions 155 | |
| (|) 12 | 20 | 2 | 75 |

Length of bars not to scale. All concentrations are mg/L as CaCO₃.

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Solution 53, p. 75: Lines 2 and 6 should read as follows:

$$F_1 = \frac{V_1}{\sqrt{gy_1}} = \frac{50 \text{ ft/sec}}{\sqrt{(32.2 \text{ ft/sec}^2)(3.8 \text{ ft})}} = 4.52$$

$$F_2 = \frac{V_2}{\sqrt{gy_2}} = \frac{8.46 \text{ ft/sec}}{\sqrt{(32.2 \text{ ft/sec}^2)(22.46 \text{ ft})}} = 0.31$$

Solution 66, p. 81:

$$V_{PS} = \frac{(lb \text{ solids})(\text{ solids capture})}{(underflow)\gamma_{H_2O}}$$
$$= \frac{(1,000 \text{ lb/day})(0.9)}{(0.09)\left(62.4 \frac{\text{lb}}{\text{ft}^3}\right)(1)} = 160.3 \text{ ft}^3/\text{day}$$

Solution 76, p. 85: The illustration should read as follows:

Tank Design Parameters

Maximum elevation

Airport flight path

Pump total discharge head (TDH)

Minimum elevation

Service pressure

Volume

Fire-flow duration

Chlorine residual