

ERRATA for
PE Civil Water Resources and Environmental Practice Exam
 ISBN: 978-1-947801-22-6
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 Errata posted 09/01/2023

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 (ft³/day) is most nearly:

Question 76, p. 50:

The illustration should read as follows:

Tank Design Parameters	System Requirements/Data
Maximum elevation	Fire-flow duration
	Chlorine residual
	Airport flight path
Minimum elevation	Service pressure
	Pump total discharge head (TDH)
Volume	Floodplain elevation
	Surface overflow rate

Question 79, p. 52:

The illustration should read as follows:

	0	150	275
Carbon dioxide	Calcium	Other cations	
50	150	125	
	Bicarbonate	Other anions	
	120	155	
	0	120	275

Length of bars not to scale.

All concentrations are mg/L as CaCO₃.

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Errata posted 08/01/2023

Solution 53, p. 75:

Lines 2 and 6 should read as follows:

$$F_1 = \frac{V_1}{\sqrt{g y_1}} = \frac{50 \text{ ft/sec}}{\sqrt{(32.2 \text{ ft/sec}^2)(3.8 \text{ ft})}} = 4.52$$

$$F_2 = \frac{V_2}{\sqrt{g y_2}} = \frac{8.46 \text{ ft/sec}}{\sqrt{(32.2 \text{ ft/sec}^2)(22.46 \text{ ft})}} = 0.31$$

Solution 66, p. 81:

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

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