

ERRATA for
PE Civil Water Resources and Environmental Practice Exam
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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% (**SG = 1.05**). The volume of primary sludge (ft³/day) is most nearly:

- ☐ A. 2
- ☐ B. 80
- ☐ C. **150**
- ☐ D. 210

Question 76, p. 50:

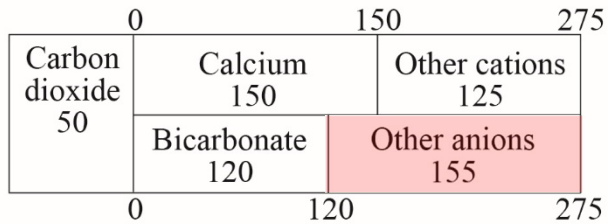
The illustration should read as follows:

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

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Question 79, p. 52:

The illustration should read as follows:



Length of bars not to scale.

All concentrations are mg/L as CaCO₃.

Solution 53, p. 75:

Lines 2 and 6 should read as follows:

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

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

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Solution 66, p. 81:

Refer to the Sludge Production section in the *PE Civil Reference Handbook*.

Using equation $V_S = \frac{M}{P_S S_S g_w}$

Use SG of sludge = 1.05

$$M = 1,000 \text{ lb/day} (0.9) = 900 \text{ lb/day}$$

$$P_S = 0.09$$

$$S_S = 1.05$$

$$g_w = 62.4 \text{ lb/ft}^3$$

$$V_S = \frac{900 \text{ lb/day}}{(0.09)(1.05)(62.4 \text{ lb/ft}^3)} = 152.6 \text{ lb/ft}^3$$

$$V_S = 153 \text{ lb/ft}^3$$

Round to tens digits = 150 lb/ft³

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