ERRATA for

PE Civil Water Resources and Environmental Practice Exam

ISBN: 978-1-947801-22-6

Errata posted 12/01/2023

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).

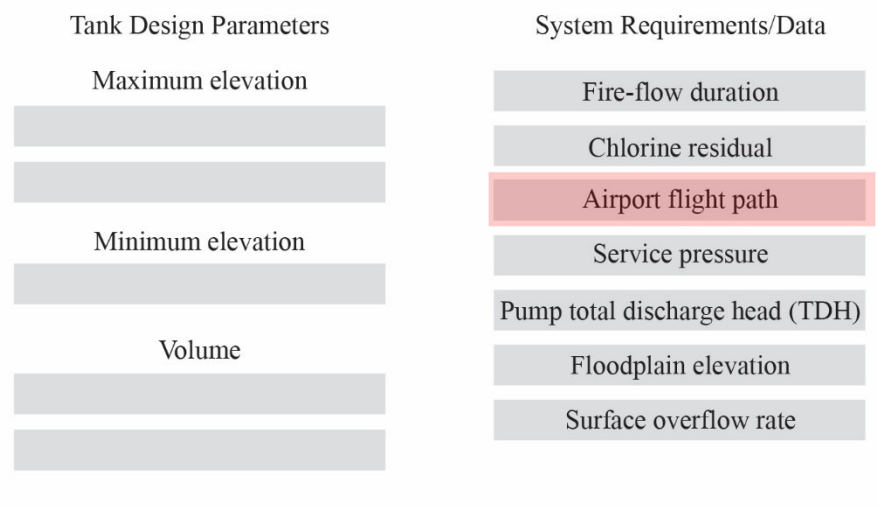
Question 66, p. 46:

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% (SG = 1.05). The volume of primary sludge (ft^3/day) is most nearly:

- ○ A. 2
- ○ B. 80
- ○ C. 150
- ○ D. 210

Question 76, p. 50:

The illustration should read as follows:



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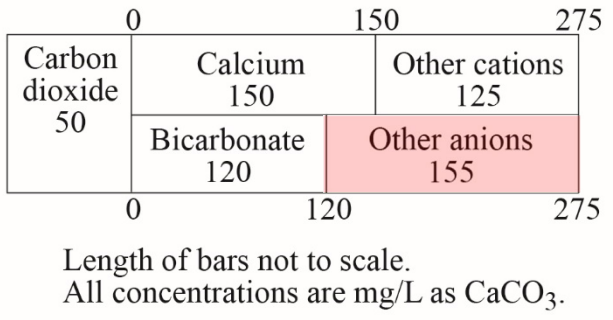
Question 79, p. 52:

The illustration should read as follows:



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 $V_S = \dfrac{M}{P_S S_S g_w}$

Use SG of sludge = 1.05

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

$P_S = 0.09$

$S_S = 1.05$

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

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

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

Round to tens digits $= 150 \text{ lb/ft}^3$

Solution 76, p. 85:

The illustration should read as follows: