

Determining Desired Volume and Correction Factor Key 4empowerment®

Determining Desired Volume and Correction Factor Key: Step 2

Part 1: Determining Desired Volume

Given: Kick Net Dimensions = 0.32m X 0.42m $0.32\text{m} \times 1000\text{cm}/1\text{m} = 32\text{cm}$
 $32\text{cm} \times 42\text{cm} \times 100\text{cm} = 134,400 \text{ cm}^3$

Length of Pull = 1 meter

Actual Volume of 1 Replicate = 134,400 cm³

3 Replicates $134,400 \times 3 = 403,200 \text{ cm}^3$

Actual Volume of All Replicates = 403,200 cm³

or 0.4032 m³

(Show all work for credit or partial credit.)

$$403,200 \text{ cm}^3 \times 1\text{m}/100\text{cm} \times 1\text{m}/100\text{cm} \times 1\text{m}/100\text{cm} = 0.4032\text{m}^3$$

Part 2: Determining the Correction Factor

What is the Correction Factor (CF) for this sampling technique? 2.480
(Show all work for credit or partial credit.)

$$1\text{m}^3/0.403\text{m}^3 = 2.480$$

$$1,000,000\text{cm}^3/403,200\text{cm}^3 = 2.480$$