

California D2

Carry the units. Trace the water.

01 Flow, velocity, and storage

$Q = A \times \text{velocity}$. For ft^3/s , use area in ft^2 and velocity in ft/s . Rearrange to $\text{velocity} = Q \div A$.¹
 Rectangular volume = length $\times$ width $\times$ depth. Cylinder volume = $0.785 \times \text{diameter}^2 \times \text{height}$.
 With dimensions in feet, multiply ft^3 by 7.48 for gallons.¹

02 Dose, demand, residual

Dose = demand + residual. Rearrange to demand = dose - residual. The amount added and the amount remaining are not the same quantity.¹
 $\text{lb}/\text{day} = \text{MGD} \times \text{mg}/\text{L} \times 8.34$. Chemical strength corrections require the strength as a fraction, such as percentage $\div 100$.¹

Keep going with the full quick sheet.

6 more focused sections: Detention time is volume $\div$ flow / Dilution and blending / Connection versus reversed flow / Low residual: diagnose first / Goal, limit, or process? / Positive sample -> specific follow-up.

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Selective study prompts, not operating instructions. Verify system-specific procedures and applicable state and federal requirements.

SOURCES - CLICK A LABEL TO CHECK THE ORIGINAL

1. Exam Conversion Sheet

California D2; ERK Rev. April 2020; conversion sheet revised April 30, 2026 | Checked 2026-09-05

examrefine.com | Selected reminders, not complete exam coverage.