

$$f'_{15} = \frac{n \gamma M(d_{15})}{I_{wt}}$$

Lab 7 Darcy's Law and Hydraulic Conductivity

$$A = \pi r^2$$

Standard T
P

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Table 7.1—CONSTANT-HEAD PERMEAMETER DATA

Sample <u>B</u>						Sample _____				
Length (Δl) <u>17.5</u> cm Area (A) <u>28.27</u> cm ² Temp (T) <u>27°</u>						Length (Δl) _____ cm Area (A) _____ cm ² Temp (T) _____				
Run	Δh cm	V ml	t s	Q ml/s	$A \Delta h / \Delta t$ cm ²	Δh cm	V ml	t s	Q ml/s	$A \Delta h / \Delta t$ cm ²
1	37.5	150	300	$\frac{150 \text{ ml}}{300 \text{ Sec}} = 0.5$	60.58					
2	33.9	131	300	0.44	55.12					
3	31.5	122	300	0.41	50.9					
K_T	1) 0.00825 2) 0.00813 3) 0.00798									
$K_{15.5}$	Calculation:					Calculation:				
k	Calculation:					Calculation:				
Sand description:						Sand description:				