**PARSONS ENGINEERING SCIENCE, INC.**

Client CSSA Job. No. 728487.03 Sheet 1 of

Subject Well 10 Hydraulic Conductivity Calculation By D.W. Adkins Date 8/29/01

Checked Rev.

Hydraulic Conductivity is calculated by:

$$K = \frac{T}{b}$$

where:

K = hydraulic conductivity
T = transmissivity
b = saturated thickness

Therefore:

$$K = \frac{2400 \text{ gpd/ft}}{198 \text{ ft}}$$

$$= 12.12 \text{ gpd/ft}^2$$

$$= 12.12 \text{ gpd/ft}^2 \times \frac{1 \text{ ft}^3}{7.48 \text{ gal}}$$

$$= 1.62 \text{ ft/day} \times \frac{1 \text{ day}}{24 \text{ hrs}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{12 \text{ in}}{1 \text{ ft}} \times \frac{2.54 \text{ cm}}{1 \text{ in}}$$

$$= 5.7 \times 10^{-4} \text{ cm/sec}$$