

$$\begin{aligned}
 \text{FLOWS FROM SPRING NO. 1} &= 0.11 \frac{\text{g}}{\text{s}} = 1.7 \text{ GPM} \\
 \text{NO. 2} &= 0.16 \frac{\text{g}}{\text{s}} = 2.5 \text{ GPM} \quad \text{POTABLE} \\
 \text{NO. 3} &= 0.06 \frac{\text{g}}{\text{s}} = 0.95 \text{ GPM} \\
 &\quad \quad \quad 5.2 \text{ GPM MAX}
 \end{aligned}$$

THE TOTAL POTABLE FLOW AT THIS TIME IS 2.5 GPM

$$\begin{aligned}
 \text{THEN DAILY FLOW} &= 2.5 \text{ GPM} \left(\frac{60 \text{ min}}{\text{hr}} \right) \left(\frac{24 \text{ hr}}{\text{Day}} \right) \\
 &= 3600 \text{ GAL} \\
 &= 481 \text{ ft}^3 = 13.6 \text{ m}^3
 \end{aligned}$$

ASSUME SUNLIGHT AVAILABLE 8 HRS / DAY

$$\text{THEN PUMPING FLOWRATE} = \frac{3600 \text{ GAL}}{8 \text{ HR}} \left(\frac{\text{HR}}{60 \text{ min}} \right) = 7.5 \text{ GPM}$$

CONSIDER 4 OPTIONS:

- 1) 1" ϕ GALV CS PIPE
- 2) 1 1/2" ϕ GALV CS PIPE
- 3) 1" ϕ HDPE PIPE
- 4) 1 1/2" ϕ HDPE PIPE

PLAN DISTANCE = 1748 ft
 ELEV DISTANCE = 231 ft
 TOTAL PIPE = 1763 ft
 CALL IT 1800 ft

