

CHRISTENSEN -UNNAMED STREAM POND WORK SHEET

POND SIZE POND SURFACE AREA (PER CLAIMANT 300 'x 210') = 63,000 SQ FT X 8'
(AVERAGE DEPTH 8' PER CLAIMANT)= 504,000 CU FT /43,560 = 11.57 AF = **11.6 AF** =
504,000 CU FT

SURFACE AREA POND SURFACE AREA . (300 'x 210'CLAIMANT MEASURED) =
63,000 SQ FT

$$63,000 \text{ SQ FT} / 43,560 \text{ SQ FT} = 1.44 \text{ AC} = \mathbf{1.4 \text{ AC}}$$

EVAPORATION: BASED ON SURFACE AREA OF 63,000 SQ FT

$$\begin{aligned} 3927 \text{ GALLONS PER DAY} \times 365 \text{ DAYS} &= 1,433,355 \text{ GALLONS} / 43,560 \\ &= \text{AF} \\ &= \mathbf{32.905 \text{ AF} = 32.9 \text{ AF}} \end{aligned}$$

SEEPAGE: NO NET SEEPAGE (UNNAMED STREAM FLOWS THROUGH POND).

CFS AF (TOTAL CFS & STORAGE AF CANNOT EXCEED LARGEST SUBTOTAL & STOCKWATER)

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$$\begin{aligned} .02 \quad .5 \quad \text{STOCKWATER} & (40 \text{ head} @ 12 \text{ GPD} \times 365 = 175,300 \text{ GALLONS} = .537 \text{ AF} \\ \text{SUB TOTAL} & \quad .537 \text{ AF} = \mathbf{0.5 \text{ AF}} \end{aligned}$$

45.0 STOCKWATER STORAGE	a.) POND SIZE	11.6AF
	b.) EVAPORATION	32.9.AF
	c.) SEEPAGE	0.0 AF
	d.) STOCKWATER	.5 AF
	SUB TOTAL	= 45.0AF

0.5 STOCKWATER FROM STORAGE

$$\begin{aligned} (40 \text{ head} @ 12 \text{ GPD} \times 365 = 175,200 \text{ GALLONS} &= .537 \text{ AF} \\ \text{SUB TOTAL} & \quad .537 \text{ AF} = \mathbf{0.5 \text{ AF}} \end{aligned}$$

.02 45.5 TOTAL

SCANNED

JUN 02 2015