

[illegible]

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

FLOW MEASUREMENTS

Measurements: In stream no flow needed.

VOLUME CALCULATIONS

See pond data information that is attached to this report.

G. NARRATIVE/REMARKS/COMMENTSHave conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION STORAGE	01/01 to 12/31	1.50 AF
WILDLIFE STORAGE	01/01 to 12/31	1.50 AF
<u>Totals:</u>		1.50 AF

2. Recommended Amendments☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other**I. AUTHENTICATION**Field Examiner's Name *E. J. [Signature]* Date 6-12-2013Reviewer *Keith C. Franklin* Date 6/17/2013

INPUTS

WR 98-7851

POND

SURFACE AREA (SQFT) 6426

AVERAGE DEPTH (FT) 4.50

FILL OR REFILL RATE (CFS) 0

NOTES/SUGGESTED VALUES

RESULTS

TOTAL AF FOR THIS WATER RIGHT		1.5 AF
IRRIGATION		AF
SEEPAGE AF	0.5 AF	
EVAPORATION (GPY per year)	0.3 AFPY	
POND SIZE	0.7 AF	
CAPACITY	28917 CUFT	
	216299 G	

CONVERT TO GPD 0 GPD

REFERENCE EXAMPLE:
ESTIMATED NUMBER OF DAYS
TO FILL BASED ON PROVIDED
INPUTS

NA DAYS
NA HR

EVAPORATION (IN/DAY) 0.1

IF UNKNOWN, USE REFERENCE ETPK80 FROM ABOVE

CONVERT TO GPD 401 GPD

EVAPORATION (GPY per year) 146211.7226
0.448708678 AFPY

0.301189017 AFPY AT 245 DAY IN THE YEAR (FROZEN)

SEEPAGE RATE (FT/DAY) 0.01
SEEPAGE RATE (GPY per year) 171116.5689
SEEPAGE RATE (AF PER YEAR) 0.525139386 AF

SUGGESTED VALUES FOR DIFFERENT SOIL TYPES:		
(FT/DAY) 0 = NATURALLY FILLED FROM GW, OR LINED	CONVERT TO GPD	481 GPD
(FT/DAY) 0.001 = CLAY SOILS		
(FT/DAY) 0.01 = Ponds with vegetation, aquatic life.		
(FT/DAY) 0.1 = SANDS/GRAVELS MIX (APPROX 30% OF VOLUME LOSS IN SEEPAGE)		



Water Level at Invert of
CHDPE.JPG



Inlet 18in CHDPE.JPG



Storage Res.JPG

