

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15779

Exam Date: 6/13/2018

1. Current Owner:

RAY A KAUFMANN 765 WHITETAIL DR GRANGEVILLE ID 83530-5111 And/Or

MARGARET M KAUFMANN 765 WHITETAIL DR GRANGEVILLE ID 83530-5111

2. Accompanied by: Margaret (Peggy) Kaufmann

3. **SOURCE:**

SPRING

TRIBUTARY:

THREEMILE CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

SPRING SE¼SW¼SE¼ Sec. 29, Twp 30N, Rge 03E, B.M. IDAHO County

Method of Determination: Maps and GPS. POD located at -116° 06.312, 45° 54.184

2.

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30N	03E	29															X		

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30N	03E	29															X		

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30N	03E	29															X		

Method of Determination: Google Earth and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

Indicate weir size/pipe as applicable.

X

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: See attached pond analysis tool.

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Peggy Kaufmann showed a small spring fed pond. Pond had a surface area of 0.04 acres with an average depth of 9 feet. Pond was fed by a spring located in the bottom of the pond. Overflow water from pond went down a ditch to an unnamed stream which then fed into Threemile Creek. Pond analysis tool shows pond has an annual storage volume of 0.4 acre-feet which includes evaporation.

The conditions on the permit and license were challenging because of the small size of the pond. The evaporation numbers were so small that they show up as 0.0 acre-feet even though there is evaporation. Conditions 219 and 220 were described down to the hundredth decimal place to show there is evaporation and the actual size of the pond without rounding. All conditions will remain the same on the license from the permit. There are two other water rights in the same 40 acre tract. 85-10774 is for domestic uses from a well in the name of the applicants. 85-7491 is for commercial uses on the adjacent property. There are no overlap concerns.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
RECREATION STORAGE	01/01 to 12/31		0.4 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		0.4 AF
WILDLIFE STORAGE	01/01 to 12/31		0.4 AF
<u>Totals:</u>			0.40 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Adam Finch Date 6/22/2018

Reviewer Douglas Jones P.E. Date 6/26/2018

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15779

RECREATION STORAGE, FIRE PROTECTION STORAGE, and WILDLIFE STORAGE / SYSTEM DIAGRAM

03E



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.0175 0.035 0.07 Miles



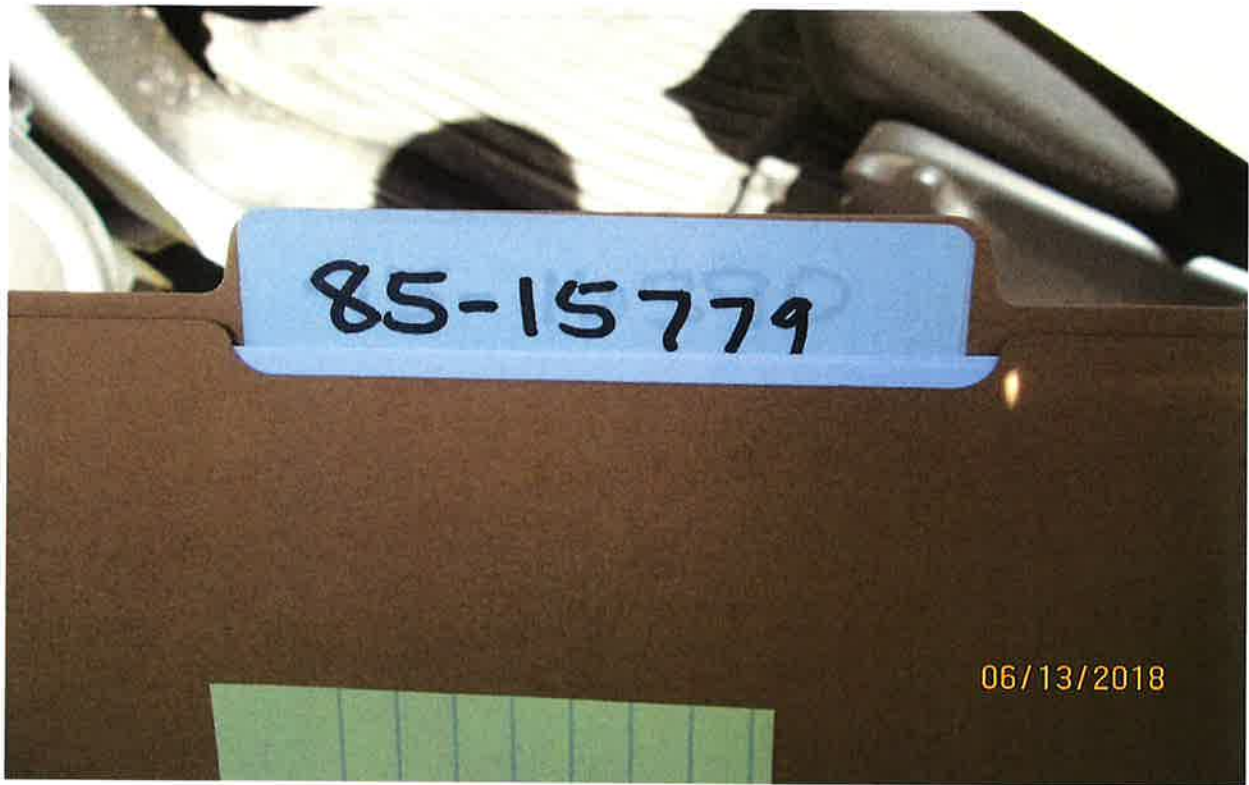
Total Storage Calculations

FILE NUMBER	85-15779
REVIEWER	Adam Frederick
DATE	6/22/2018

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.04	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	9	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	0.4	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.0	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.4	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.



POU.



POU.





Overflow ditch.

