

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09589
Exam Date: 8/11/2016

1. Current Owner:
RHONDA OUSLEY 71 PRIVATE DR SAGLE ID 83860 (208)255-1335
And
RICHARD L OUSLEY SR 71 PRIVATE DR SAGLE ID 83860

2. Accompanied by: Richard Ousley

3. **SOURCE:**
SURFACE RUNOFF

TRIBUTARY:
GARFIELD 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:**

SURFACE RUNOFF SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 15, Twp 56N, Rge 01W, B.M. BONNER County

Method of Determination: GPS and maps. Dam location at 48° 12.234, 116° 26.216

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	
56N	01W	15							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	
56N	01W	15							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	
56N	01W	15							X										

Method of Determination: Google Earth and Arc map.

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:

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEETS

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mr. Ousley showed a small pond with surface area of 0.04 acres. Applicant had constructed the pond to collect runoff water along driveway. At time of licensing the source of water will be changed from runoff to surface runoff which is approved description of source of water. Dam height was about 6 feet with deeper areas in the pond were excavated up to 17 feet deep. There were two outlets to pond; one in dam leading down grassy area towards Garfield Creek and the other was under the driveway there was a culvert that would take water to other side for runoff to Garfield Creek. New and old pond analysis sheets will be attached for reference. License will be issued for the volumes of old analysis sheet because new sheet gives a higher value for seepage.

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>
FIRE PROTECTION STORAGE	01/01 to 12/31		1.7 AF
RECREATION STORAGE	01/01 to 12/31		1.7 AF
WILDLIFE STORAGE	01/01 to 12/31		1.7 AF
<u>Totals:</u>			1.70 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 Finkler Date 1-12-2017

Reviewer Morgan Case Date 1/25/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9589

FIRE PROTECTION STORAGE, RECREATION STORAGE, and WILDLIFE STORAGE



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

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
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SYSTEM DIAGRAM



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

0 0.0225 0.045 0.09 Miles



Total Storage Calculations

FILE NUMBER	96-9589
REVIEWER	Adam Frederick
DATE	1/12/2017

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.)	6.8	"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)	0.272	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)	2.9	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)	3.2	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.

OUSLEY APPLICATION
POND ANALYSIS SHEET

POND SIZE: 75 FT X 40 FT = 3000 SQFT / 43,560 = 0.1 X 12 FT DEEP = 1.2 AF

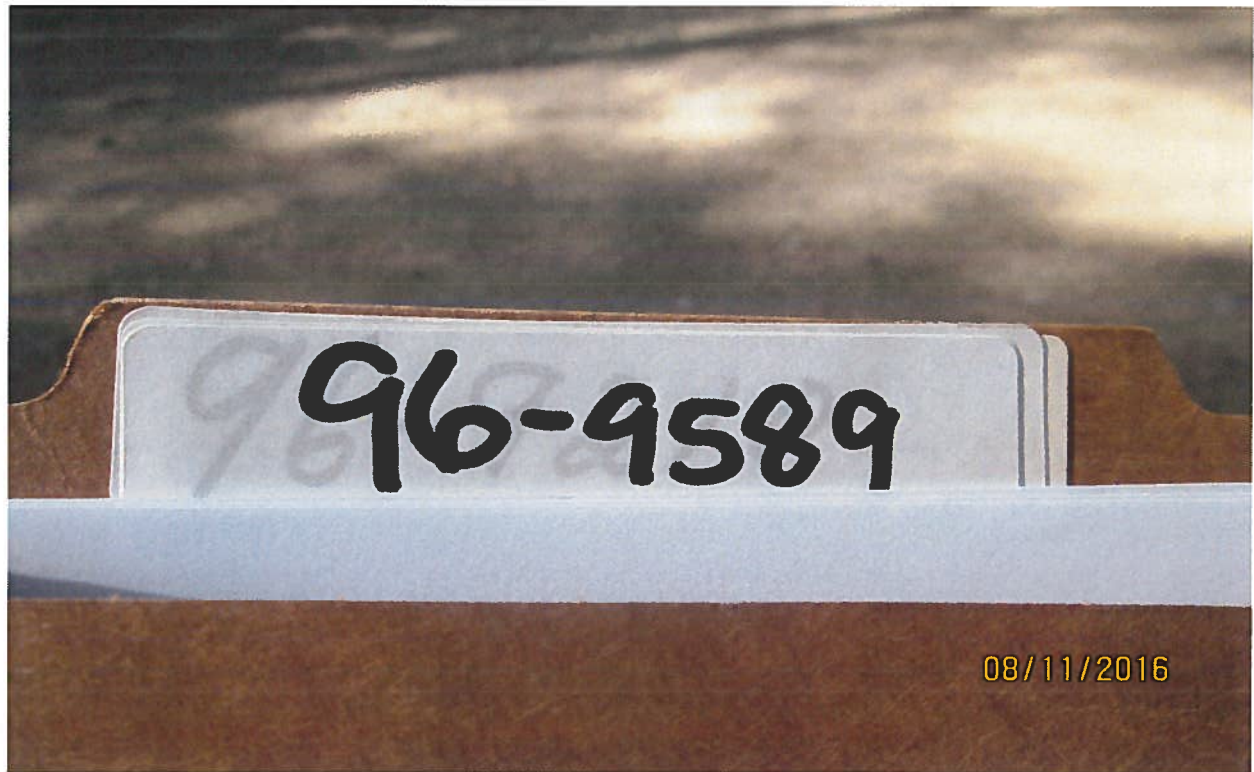
EVAPORATION: 187 GPD X 365 DAYS / 325,850 GAL/AF = 0.2 AF

SEEPAGE: 224 GPD X 365 DAYS / 325,850 GAL/AF = 0.3 AF

1.7 AF	FIRE PROTECTION STORAGE	A) POND SIZE	1.2 AF
		B) EVAPORATION	0.2 AF
		C) SEEPAGE	0.3 AF
	TOTAL		1.7 AF

1.7 AF	WILDLIFE STORAGE	A) POND SIZE	1.2 AF
		B) EVAPORATION	0.2 AF
		C) SEEPAGE	0.3 AF
	TOTAL		1.7 AF

1.7 AF	RECREATION STORAGE	A) POND SIZE	1.2 AF
		B) EVAPORATION	0.2 AF
		C) SEEPAGE	0.3 AF
	TOTAL		1.7 AF



View from 6 foot high dam. 1 of 2 overflow culverts below.



Looking from dam towards driveway. 2nd overflow culvert under driveway.





Looking below dam at overflow culvert 1.



Looking at dam from driveway towards culvert 1.