

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-07916

Exam Date: 7/19/2018

1. Current Owner:
 MARIAN NEACSU PO BOX 1752 BONNERS FERRY ID 83805 (828) 674-3307
 And/Or
 LIDIA NEACSU PO BOX 1752 BONNERS FERRY ID 83805 (828) 674-3307

2. Accompanied by: Marian & Lidia Neacsu
 Phone No:
 Address:
 Relationship to Permit Holder: Permit holders

3. **SOURCE:**
 UNNAMED STREAM

TRIBUTARY:
 KOOTENAI RIVER

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:**

UNNAMED STREAM NE¼SE¼ Sec. 6, Twp 64N, Rge 01E, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD located at -116° 22.677, 48° 55.547.

2.

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	
64N	01E	6													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
X 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
N/A					

*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
N/A						

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

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

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicants showed a pond on an unnamed stream. The pond had a 4-5 foot high dam with a side channel overflow. At time of exam there was still water flowing through the overflow and down the drainage. Downstream from the drainage, there was no clear defined channel. Water flowed into the pond from a spring located up the draw from the pond. Water was not piped to pond, it just naturally flowed into it. Pond had a maximum depth of 18 feet in the center and was mainly excavated. Excavated dirt was then used to build of the dam as it was a soil with a good amount of clay. Average depth of pond was equal to 7.2 feet with a surface area of 0.2 acres. Permit was issued with no seepage, however the pond was not located on a perennial stream and did not flow year round. Because the permit had applied for a greater volume, seepage will be added to license. License will be issued for an annual volume of 1.8 acre-feet.

Conditions 26A and 082 will be removed from license as they are no longer necessary. Conditions 219 and 220 will be altered to change the actual size and amount of pond and to include seepage. All other conditions will remain on license. Overlap review shows a statutory claim 98-4042 in the same 40 acre tract for stockwater from a spring. At time of exam, there were no stockwater present on the property and there were no stockwater tanks visible. The source of the pond was a spring that flowed into an unnamed stream and the spring could be what was claimed under the statutory claim. However, with no planned adjudication in the 98 basin, we may never know the actual source of 98-4042.

Have conditions of permit approval been met? ☒ 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		1.8 AF
<u>Totals:</u>			1.80 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 ☒ None

I. AUTHENTICATION

Field Examiner's Name Gary Fink Date 1/24/2019
 Reviewer Douglas Jones P.E. Date 1/29/2019

Total Storage Calculations

FILE NUMBER	98-7916
REVIEWER	Adam Frederick
DATE	1/23/2019

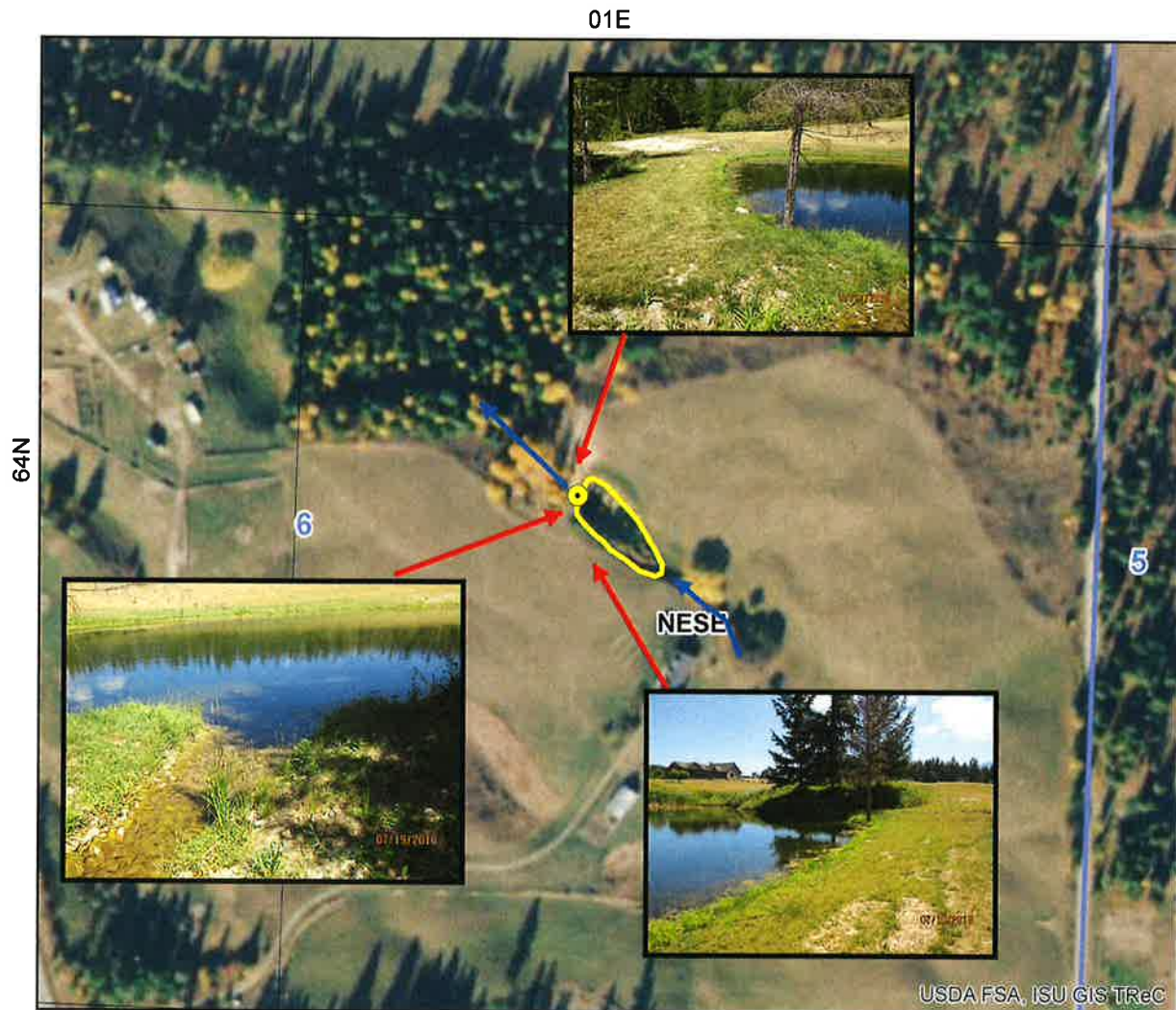
This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.2	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	7.2	"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)	1.4	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 " <u>From Storage</u> " component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.2	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.8	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.

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7916

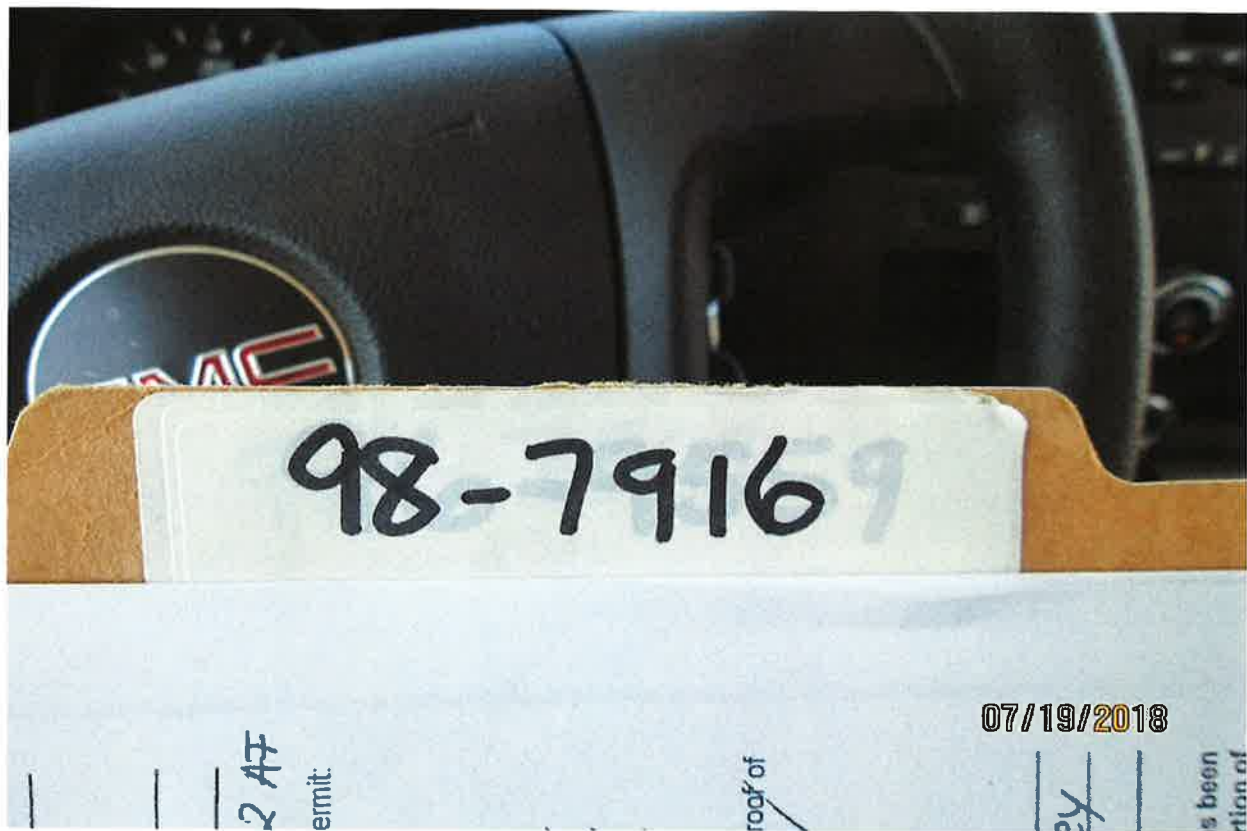
RECREATION STORAGE / SYSTEM DIAGRAM



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

0 0.035 0.07 0.14 Miles





Point of diversion. Dam was 4-5 feet with overflow from side channel.



Pond with overflow channel.



Overflow channel looking downstream of dam.



Recreation place of use.





Recreation place of use.

