

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-16968
Exam Date: 05/10/2018

1. Current Owner:
THINE L BLOXHAM 24350 N RIMROCK RD HAYDEN ID 83835 AND/OR
JON C BLOXHAM 24350 N RIMROCK RD HAYDEN ID 83835

2. Accompanied by: Jon Bloxham

3. **SOURCE:**
UNNAMED STREAM

Tributary
SINKS

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: _____

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM L7 (SW $\frac{1}{4}$ SW $\frac{1}{4}$), Sec. 4, Twp 52N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -116° 42.931, 47° 52.644

PLACE OF USE: WILDLIFE STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	03W	4											X L7	X					

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	03W	4											X L7	X					

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	03W	4											X L7	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.

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

XX 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					

D. FLOW MEASUREMENTS

1.

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

2. Measurements: N/A

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

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

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

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

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, Jon Bloxham, showed an instream pond being used for wildlife, recreation, and fire protection storage. The pond had a 10 foot high dam with two 8 inch pvc or hard plastic pipes maintaining the water level and letting water flow through to the unnamed stream. The two pipes were about 3 feet down from the top of the dam and had a screen covering the pipes to prevent clogging. The unnamed stream continues down the hill and eventually sinks near where Sage Creek sinks as well. The pond's surface area was equal to 0.1 acres with an average depth of 7 feet. Because the pond is on stream there is no seepage and the evaporation is equal to 0.1 acre-feet. The license will be issued for 0.8 acre-feet for wildlife, recreation, and fire protection purposes.

Conditions 029 and 082 were removed from the license as they are no longer needed. Conditions 219 and 220 were tweaked a little bit to change the volumes as they were less than the 1.0 acre-feet that was permitted. All other conditions will remain on license from permit. There are no overlap concerns, though the Bloxham's do have another water right 95-10950 on their property. There is a diversion point further upstream of this pond along with 3 groundwater diversion points. There is another off channel pond on the property covered under the other water right along with domestic, stockwater, and irrigation. This pond was found by the field examiner of the other right and Mr. Bloxham came back to apply for the water right for the 2nd on stream pond. There are no other water rights in the general area.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
WILDLIFE STORAGE	01/01 to 12/31		0.8 AF
RECREATION STORAGE	01/01 to 12/31		0.8 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		0.8 AF

Totals:

0.8 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

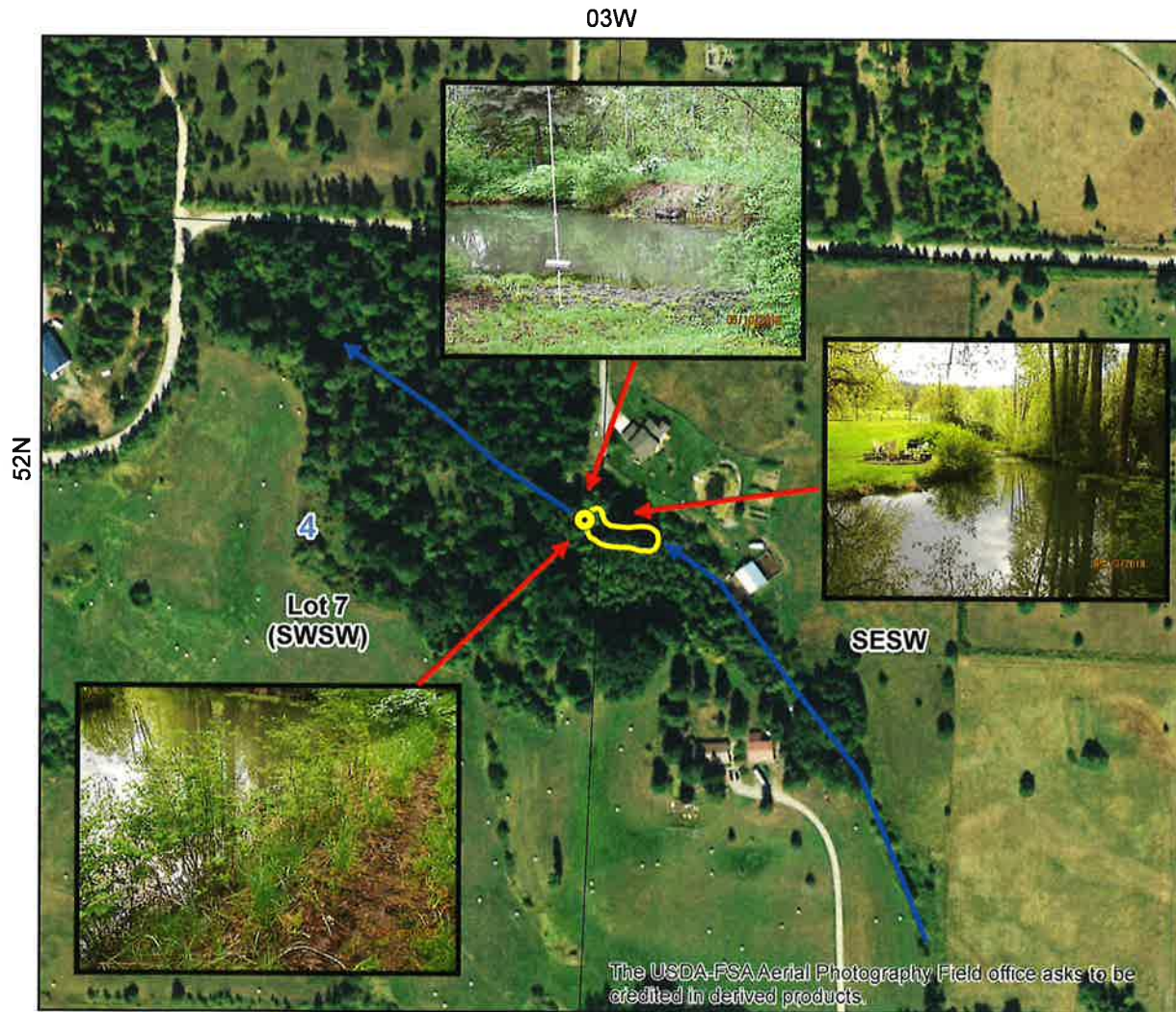
Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 3/1/2019

Reviewer Douglas Jones P.E. Date 3/19/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-16968

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



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

0 0.035 0.07 0.14 Miles



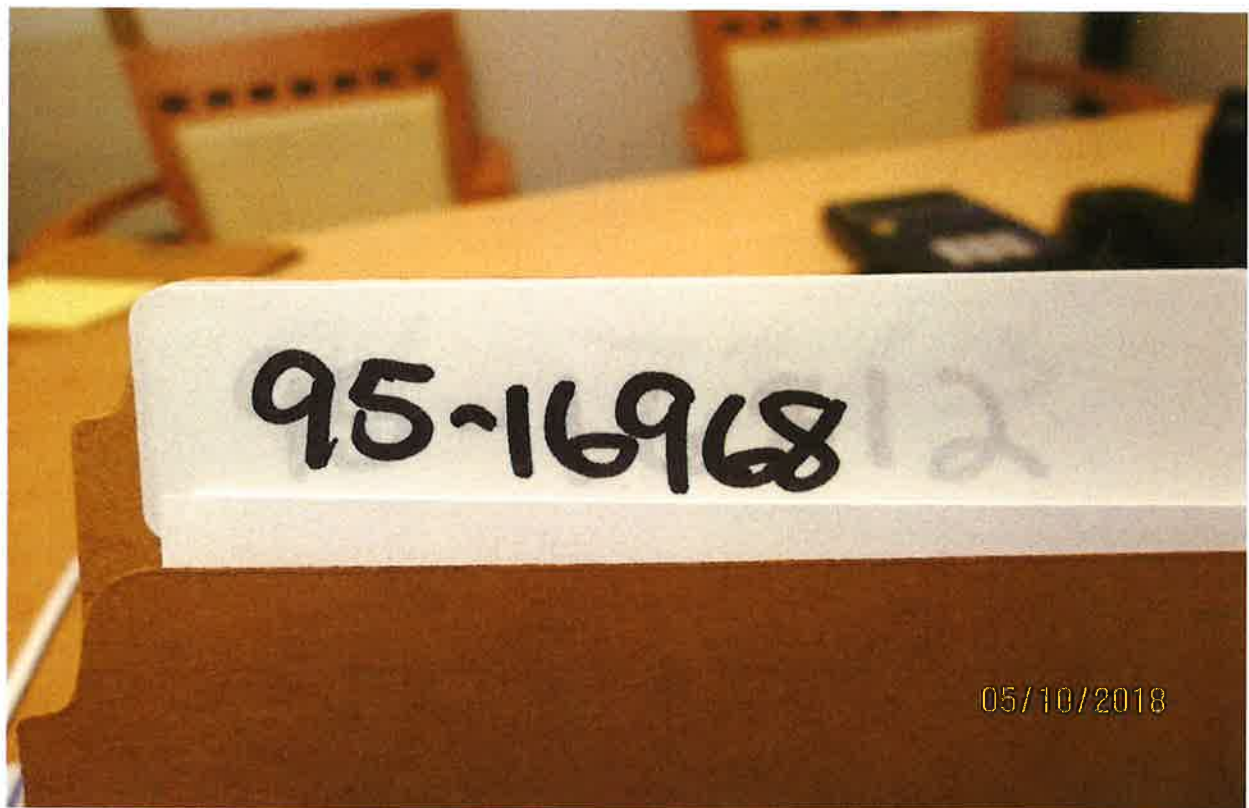
Total Storage Calculations

FILE NUMBER	95-16968
REVIEWER	Adam Frederick
DATE	2/28/2019

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

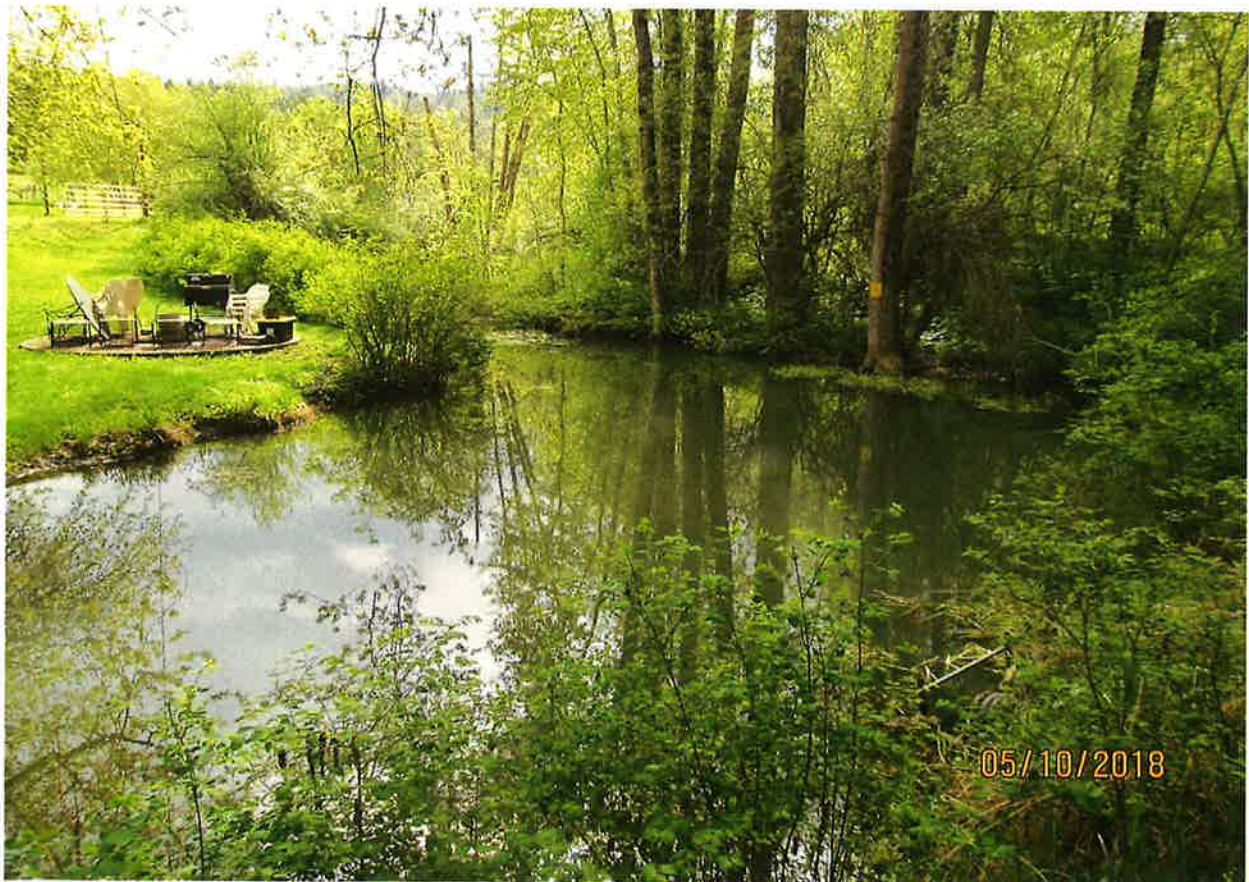
Surface Area (AC.)	0.1	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	7	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook 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)	0.7	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. <i>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.</i>
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). <i>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</i>
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.8	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.



Point of diversion. The dam had an average height of 10 feet.



Storage place of use and culverts returning flow back to creek.



Storage place of use.



Storage place of use.

