

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 82-12114

Exam Date: 6/13/2018

1. Current Owner:
JON B BLEDSOE PO BOX 296 ELK CITY ID 83525 (208) 842-2585
2. Accompanied by: Jon & Hergart Bledsoe
3. **SOURCE:**
UNNAMED STREAM
- TRIBUTARY:**
BUFFALO GULCH 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**UNNAMED STREAM NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 21, Twp 29N, Rge 08E, B.M. IDAHO County

Method of Determination:

2.

PLACE OF USE: AESTHETIC 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	
29N	08E	21									X								

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	
29N	08E	21									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	
29N	08E	21									X								

PLACE OF USE: STOCKWATER 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	
29N	08E	21									X								

Method of Determination: Google Earth and Arcmap.

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.

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

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

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 tool.

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Jon & Hergart Bledsoe showed a pond on an unnamed stream. Pond had water flowing in at two spots but discharged through a common overflow culvert. From that overflow culvert, water would continue to flow down the unnamed stream until reaching Buffalo Gulch Creek. Dam was in the shape of a semi-circle and was 10 - 12 foot high. Pond measured out to have a surface area of 0.3 acres and had a maximum depth of 12 feet or an average depth of 4.8 feet. The pond analysis tool showed there was no seepage and only 0.1 acre feet of evaporation. The original application did not use the pond analysis tool, but because there was enough storage applied for, it will be used during licensing. The overall storage was equal to 1.4 acre feet and with the additional 0.1 acre feet for evaporation equals what was applied for and permitted.

All conditions on the permit were removed at time of licensing. They were either not applicable or incorrectly used. New conditions were added to the license. Those conditions were 218, 219, 220, and 004. There are no overlap concerns with 82-7100.

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>
WILDLIFE STORAGE	01/01 to 12/31		1.5 AF
STOCKWATER STORAGE	01/01 to 12/31		1.5 AF
AESTHETIC STORAGE	01/01 to 12/31		1.5 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		1.5 AF
<u>Totals:</u>			1.50 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 Franklin Date 6/18/2018

Reviewer Douglas Jones P.E. Date 6/21/2018

Total Storage Calculations

FILE NUMBER	82-12114
REVIEWER	Adam Frederick
DATE	6/18/2018

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

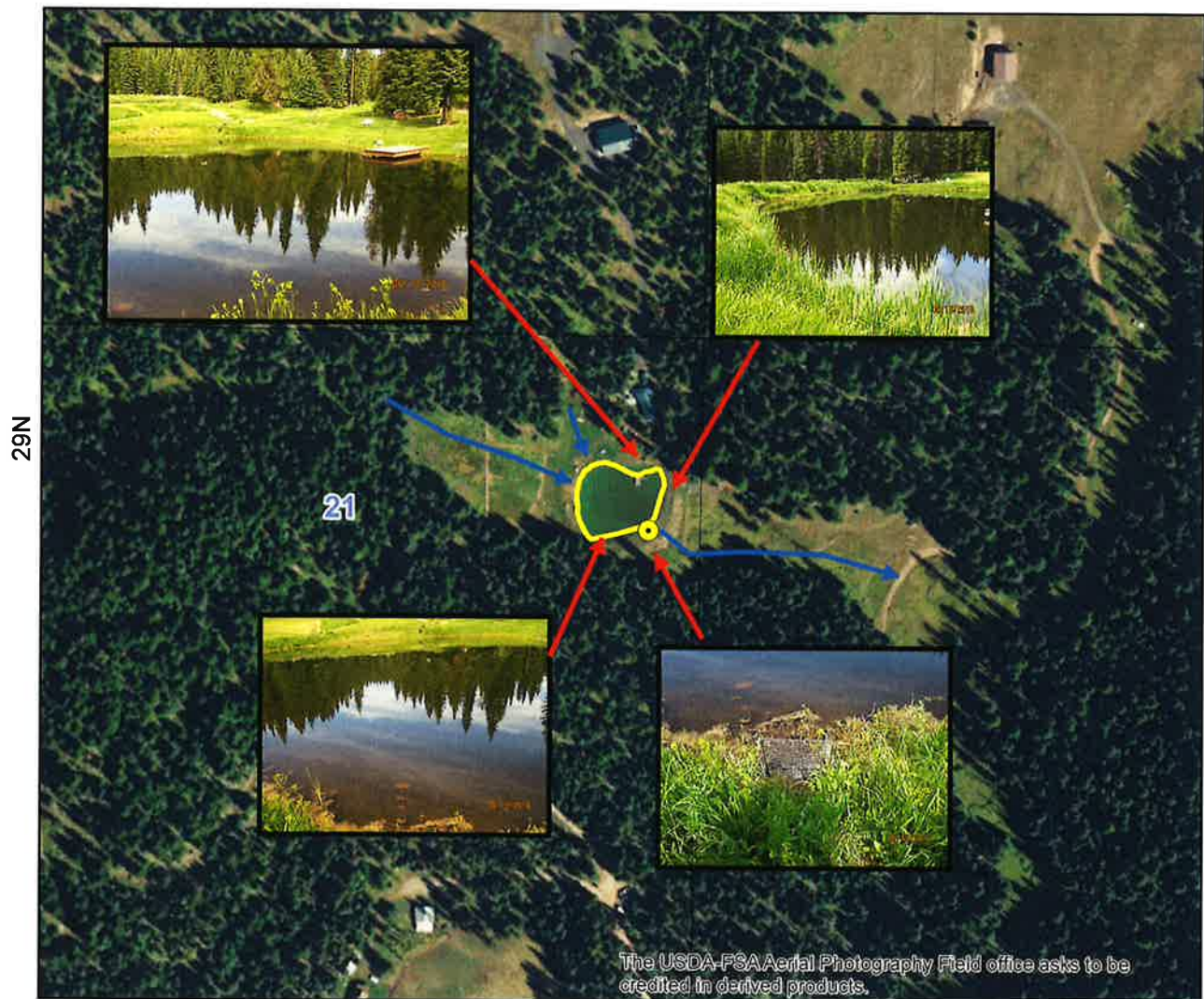
User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.3	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4.8	"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)	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. <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)	1.5	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
82-12114

AESTHETIC STORAGE, WILDLIFE STORAGE, STOCKWATER STORAGE, and FIRE PROTECTION STORAGE
SYSTEM DIAGRAM

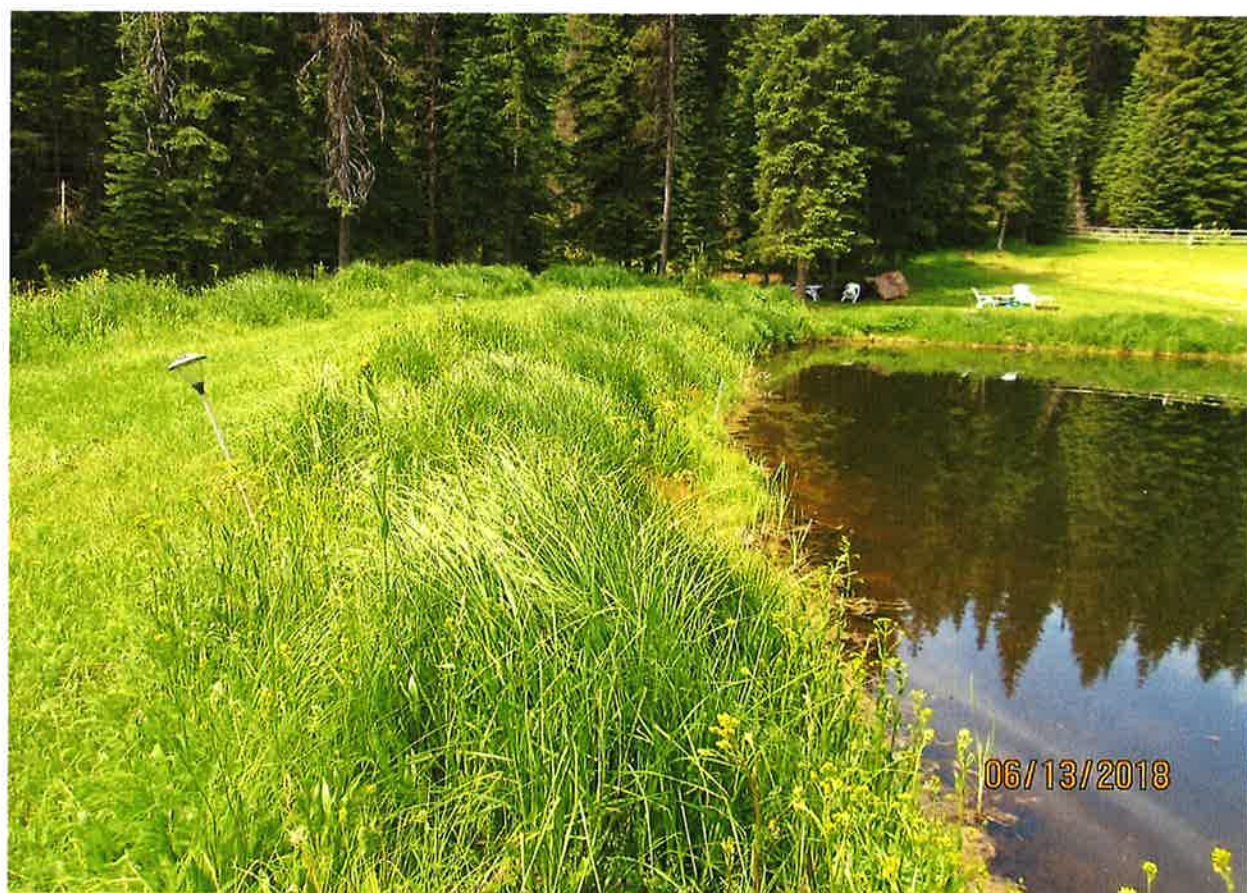
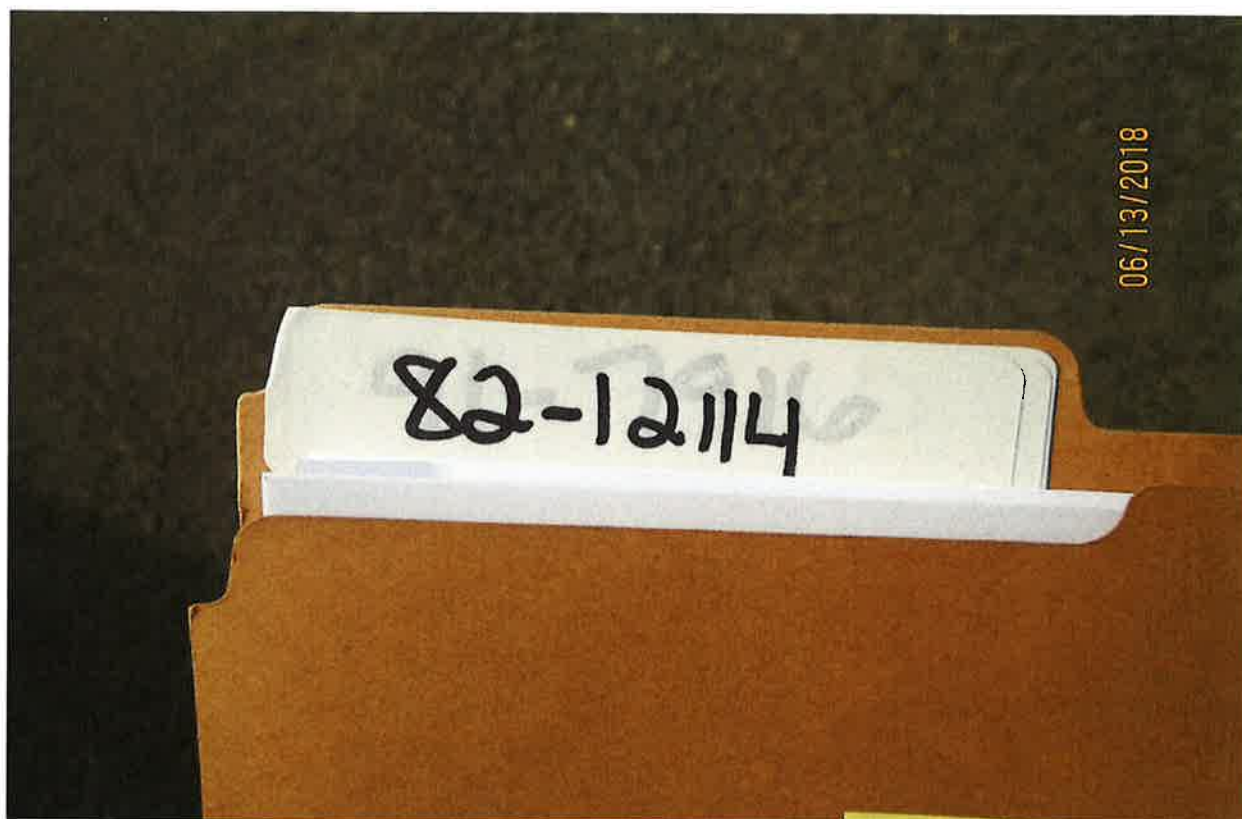
08E



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

0 0.035 0.07 0.14 Miles





Dam, point of diversion.



Screened outflow approved by IDFG.



Outflow culvert to unnamed stream and then Buffalo Gulch Creek.



Place of use.





Place of use.





State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815-7763
Phone: (208) 762-2800 • Fax: (208) 762-2819 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 24, 2018

JON B BLEDSOE
PO BOX 296
ELK CITY ID 83525

RE: Permit to Appropriate Water 82-12114

Dear Permit Holder(s):

I am planning to conduct water right examinations in the vicinity of the above-referenced permit on June 13, 2018. An examination is a necessary step in the water appropriation process. During the examination, I will verify your water uses pursuant to your permit (copy enclosed).

In order to conduct your exam as efficiently as possible, please call me at (208) 762-2800. Please be advised that you will need to operate your system under normal conditions during the examination.

I look forward to meeting with you and working towards finalizing your permit.

Sincerely,

Adam Frederick
Senior Water Resource Agent

Enclosure(s): Permit 82-12114
Map