

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-13939
Exam Date: 06/24/2015

1. Current Owner:
JSL GROUP LLC 7475 E YELLOWSTONE TRL COEUR D ALENE ID 83814-9371
2. Accompanied by: Liz Lampert
Phone No: 208-691-6738
Address: n/a
Relationship to permit Holder: Permit holder's delegated representative for exam.

3. **SOURCE:**
UNNAMED STREAM

Tributary
PLUMMER CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap
2. Other water rights with the same point-of-diversion: NO Overlap

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

UNNAMED STREAM SW¼ NE¼, Sec. 19, Twp 46N, Rge 04W, B.M. BENEWAH County

Method of Determination: GPS. POD is an earthen dam located at -116° 53.071, 47° 19.050.

PLACE OF USE: STOCKWATER STORAGE, FIRE PROTECTION STORAGE, and 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	
46N	04W	19			X														

Method of Determination: Field examination and Arcmap aerial imagery.

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					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

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

- Stockwater Storage volume = 25 head mixed stock x 12 GPD x 365-days = 109,500 gal per year / 325,850 gal per acre-foot = 0.33 af = **0.3 af** considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

A field exam was performed by department staff on 6/24/2015 with the applicant's designated representative, Liz Lampert, which showed an in-stream pond being used for stockwater storage, wildlife storage, & fire protection storage. At the POD, the applicant has an existing pond with earthen dam that impounds unnamed stream water, with an overflow channel allowing overflow discharge of water downstream. There is no diversion rate associated with this water right. The Permit was approved with beneficial uses of stockwater (direct flow) & stockwater from storage components, but during the field exam it was validated these uses were not developed and they have been removed from the Permit during licensing review.

Following the field examination, the Permit was initiated in ADHOC for licensing review, with the POD & POU designated along with the removal of the two beneficial uses listed above. I assume the licensing review was then tabled due to the camera used by the field examiner failing to capture photographs to provide visual proof of the storage pond. In February 2022 I assumed responsibility for finalizing the permit for licensing. I reached out to the applicant's representative, Susan Dickson, and she was kind enough to send photographs via email of the storage pond. A follow-up phone call verified the pond was only used for stock animals to drink from during the development period of the pond, validating the removal of the other two stockwater beneficial uses. Following the phone correspondence coupled with prior exam notes, I have the information needed to accurately license 95-13939.

During licensing review, Arcmap aerial imagery coupled with field notes were used to trace out the pond's surface area, which equals 0.2 acres. The pond has a max depth of 8 feet, an average depth of 3.2 feet, a pond capacity of 0.6 af, and an estimated seepage and evaporation loss of 0.7 af. Based on pond development and current pond analysis sheet calculations, the fire protection & wildlife annual volume(s) equal 0.6 af (capacity) + 0.7 af (seepage/evaporation loss) = **1.3 af** respectively. This volume is not additive per beneficial use when calculating the maximum diversion volume.

The pond was used during the development period for stock watering of 25 head mixed stock. The annual volume associated with stockwater storage equals 25 head mixed stock x 12 GPD x 365-days = 109,500 gal per year / 325,850 gal per acre-foot = 0.33 af = **0.3 af** considering department rounding standards. The maximum diversion volume equals 1.3 af (fire protection & wildlife storage) + 0.3 af (stockwater storage) = **1.6 af**.

Condition X02 was removed from the permit during licensing review. Condition 219 was revised to assign accurate pond volume and capacity values during licensing review. All other conditions on the permit shall be carried to licensing. There are no overlap concerns for this water right.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Annual Volume</u>
STOCKWATER STORAGE	01/01 to 12/31	0.3 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	1.3 AF
WILDLIFE STORAGE	01/01 to 12/31	1.3 AF

Totals: 1.6 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

Luke Bates -

Field Examiner's Name

[Signature]

Date

2/28/2022

Reviewer

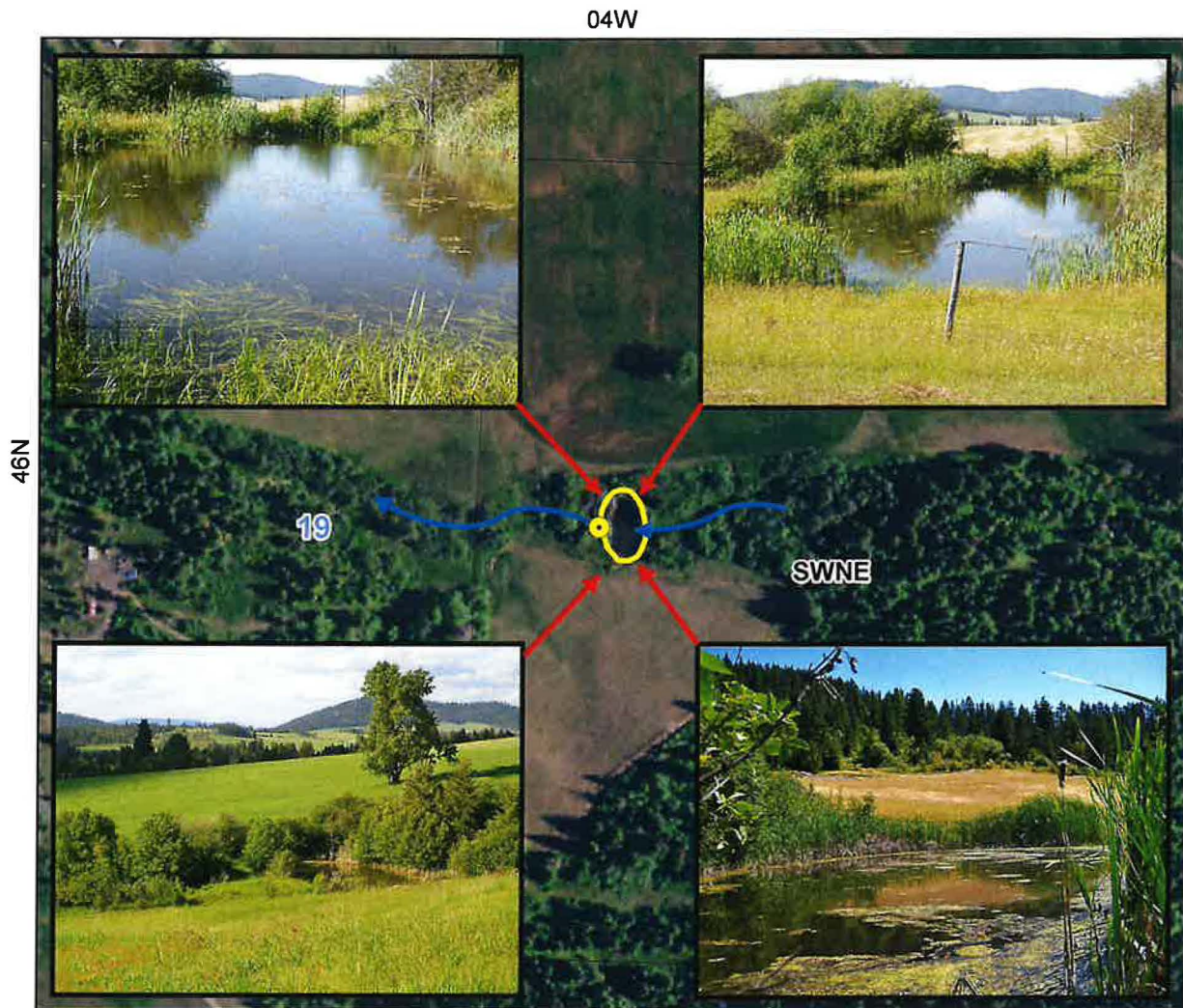
[Signature]

Date

3/7/2022

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-13939

STOCKWATER STORAGE, FIRE PROTECTION STORAGE, & 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

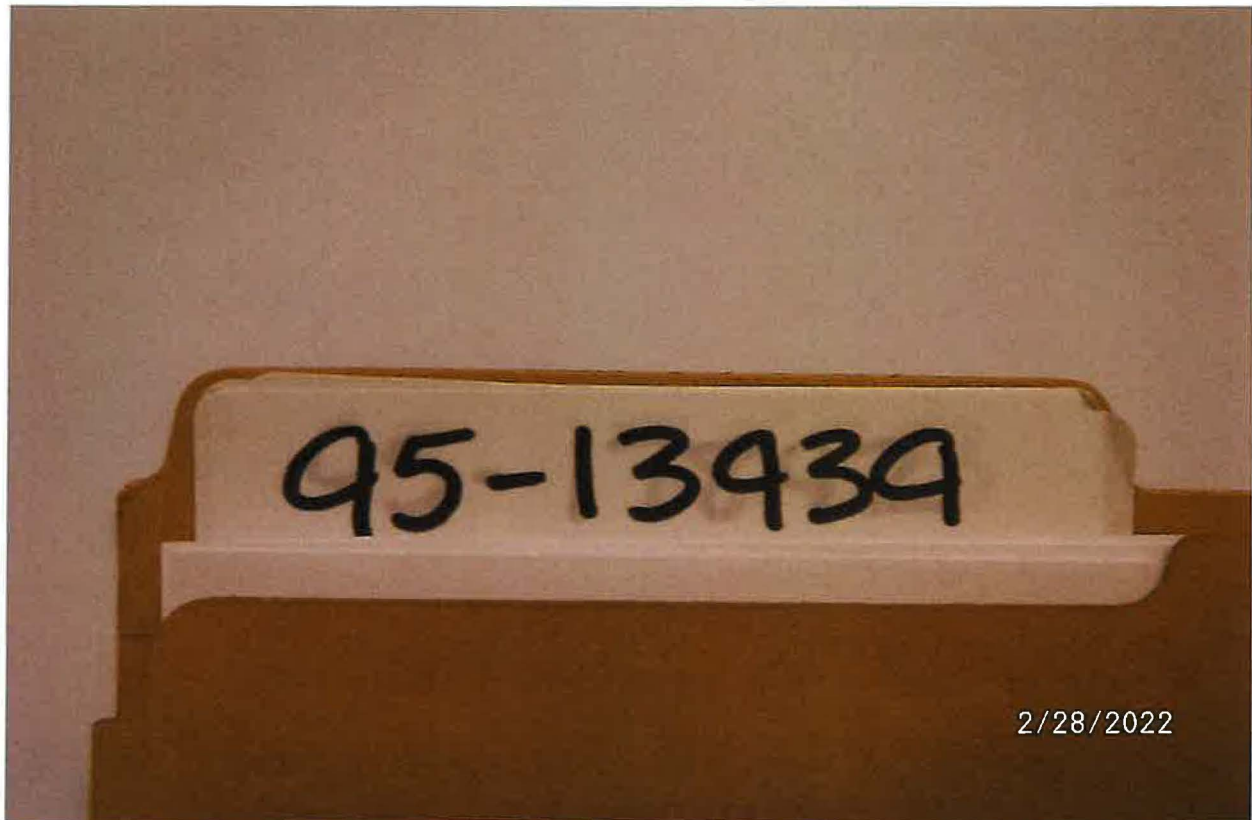
FILE NUMBER	95-13939
REVIEWER	LUKE BATES
DATE	2/28/2022

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.)	3.2	"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)	0.6	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)	0.4	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.3	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.3	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.



FIELD EXAM DATE 6/24/2015



POND POD – EARTHEN DAM WITH OVERFLOW PIPE



POU – STOCKWATER STORAGE, WILDLIFE STORAGE, & FIRE PROTECTION STORAGE





POU - STOCKWATER STORAGE, WILDLIFE STORAGE, & FIRE PROTECTION STORAGE

