

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9474
Exam Date: 07/01/2021

1. Current Owner:
MIKE GABBA 5314 HIGHWAY 2 PRIEST RIVER ID 83856-8308
2. Accompanied by: Mike Gabba
Phone No: 208-610-3407
Address: Same as above
Relationship to permit Holder: Permit holder

3. **SOURCE:**
UNNAMED STREAM

Tributary
PEND OREILLE RIVER

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 L7 (NE $\frac{1}{4}$ NW $\frac{1}{4}$), Sec. 26, Twp 56N, Rge 05W, B.M. BONNER County

Method of Determination: GPS; POD is an earthen dam with headgate located at -116°55.6764, 48°10.7542

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	
56N	05W	26					X L7												

Method of Determination: Field exam 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.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 7/1/2021 with the applicant, Mike Gabba, showed a pond that captured unnamed stream water that is used for wildlife storage. The POD is an excavated earthen dam with a head gate serving as the overflow discharge mechanism. This is an in-stream pond and there is no diversion rate associated with this permit.

Photographs were taken during the field exam to illustrate the storage pond that serves as the wildlife storage POU. Following the exam, Arcmap aerial imagery was used to trace out the surface area of the pond, which equals 0.5 acres. The pond has a maximum depth of 8 feet, an average depth of 3.2 feet, pond capacity of 1.6 af, and a seepage & evaporation loss of 0.4 af annually. The total volume required equals 2.0 af annually. The applicant is limited to the permit approved maximum diversion volume of 0.9 af, which was generated in the application process using an older pond analysis worksheet than the current Department worksheet. The maximum diversion volume recommended for licensing purposes equals **0.9 af**. The wildlife storage pond has a small island in it, which was excluded from the total pond size in acres when calculating the pond analysis worksheet. Additionally, the storage pond POU excludes the small island in the shape. The pond was developed using clay as a liner, which reduces the seepage factor associated with the pond analysis worksheet.

During licensing review, the applicant was notified the pond has a larger storage capacity than Mr. Gabba's permit was approved for. In turn, Mr. Gabba has filed for an additional application for permit, WR No. 96-9886, which will account for additional beneficial uses that will cover the difference in current licensing volume and what the pond will actually hold annually. In the future at time of licensing the new application, an overlapping condition will be used to describe the same POU and total volume requirements for the two water rights.

Condition 26A was removed from the permit during licensing review. Condition(s) 219 and 220 were edited to accurately describe the pond size and volume factors for licensing purposes. All other conditions on the permit shall be carried forward to licensing. There are no overlap concern for this water right.

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

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Annual Volume
WILDLIFE STORAGE	01/01 to 12/31	0.9 AF

Totals: 0.9 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

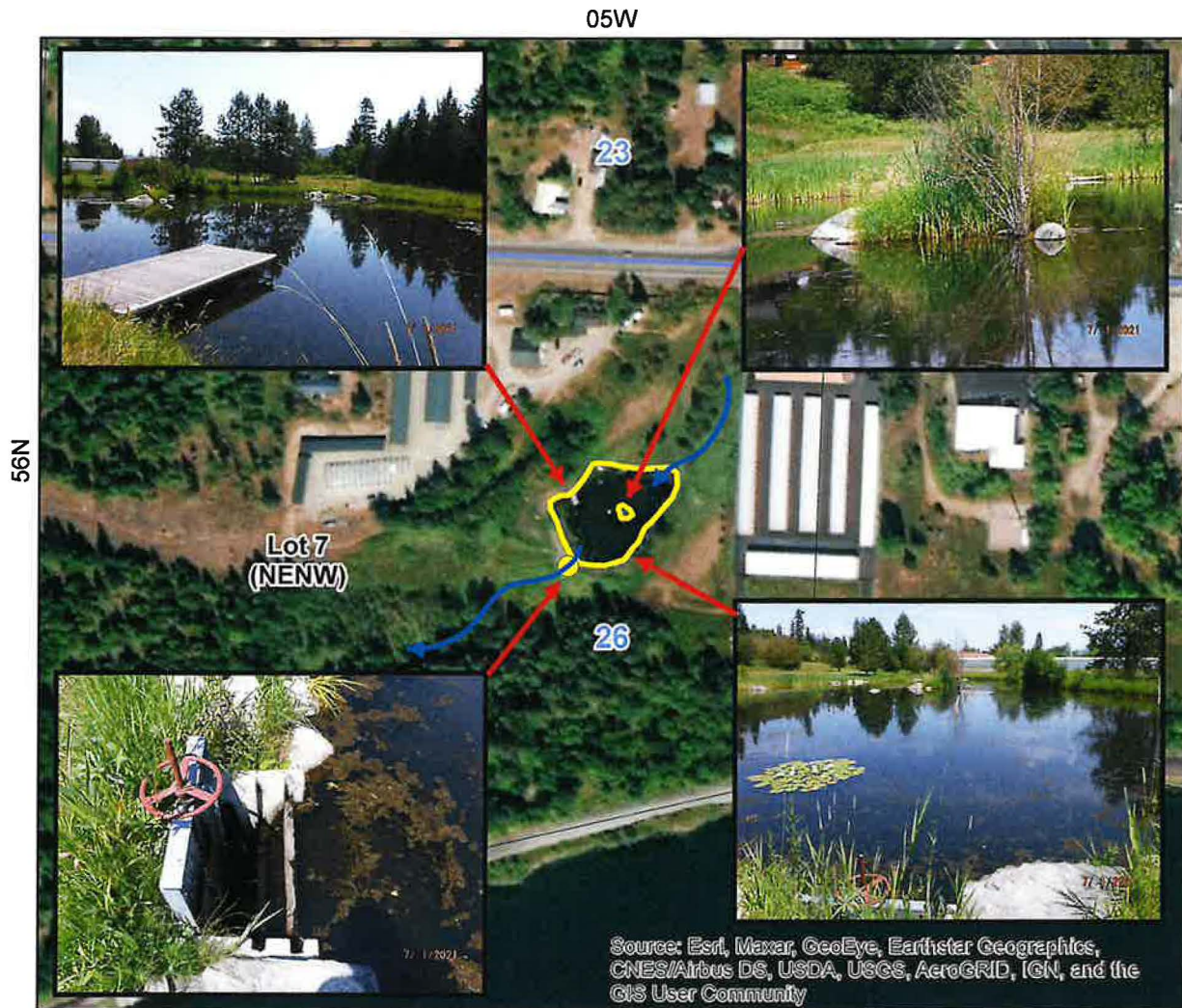
I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name FSB.D Date 8/2/2021

Reviewer Adm Fink Date 8/5/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9474

WILDLIFE STORAGE system diagram.



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

0 0.035 0.07 0.14 Miles



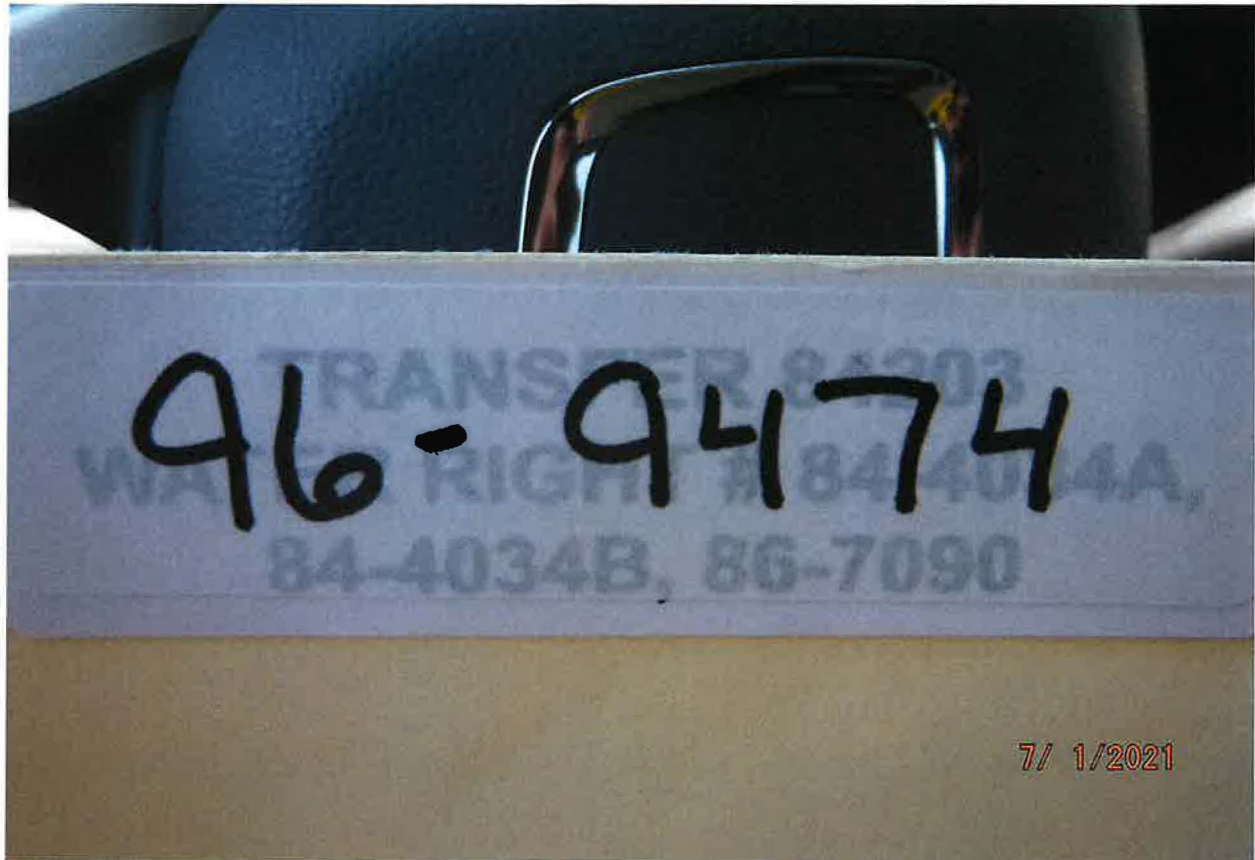
Total Storage Calculations

FILE NUMBER	96-9474
REVIEWER	LUKE BATES
DATE	7/16/2021

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.)	0.5	"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)	1.6	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 "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.4	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	2.0	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 7/1/2021



POD – EARTHEN POND DAM WITH WEIR HEADGATE DEVICE INSTALLED



POU – WILDLIFE STORAGE POND





VIEW LOOKING AT POD HEADGATE



OVERFLOW FROM POND DISCHARGES DOWNSTREAM INTO WETLAND AREA



SMALL 4 FT X 4 FT RAISED ISLAND IN POND



WILDLIFE STORAGE POND