

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7735
Exam Date: 09/28/2022

1. Current Owner:
PRIEST RIVER TIMBER LLC 2721 ROAD 84 PASCO WA 99301-1625
2. Accompanied by: Unaccompanied, property access permission granted prior to exam from Mr. Patrick McBurney Sr.
Phone No: 509-412-5522
Address: Same as above
Relationship to permit Holder: Mr. Patrick McBurney Sr. authorized signatory for the applicant's LLC.

3. SOURCE:

SPRING
UNNAMED STREAM

Tributary

PRIEST RIVER
PRIEST RIVER

Method of Determination: ArcMap & 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

SPRING SW¼ SW¼ SW¼, Sec. 12, Twp 56N, Rge 05W, B.M. BONNER County
UNNAMED STREAM SW¼ SW¼, Sec. 12, Twp 56N, Rge 05W, B.M. BONNER County

Method of Determination: GPS. Spring fed pond POD is an earthen dam located at -116° 54.830, 48° 12.637; lower pond POD is an earthen dam located at -116° 54.8183, 48° 12.6327.

PLACE OF USE: RECREATION STORAGE, FIRE PROTECTION STORAGE, AESTHETIC 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	12											X						

Method of Determination: Beneficial use field examination, ArcMap aerial imagery, & Bonner County GIS tax parcel map imagery.

3.
 - X 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 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					

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(s).

G. NARRATIVE/REMARKS/COMMENTS

Department staff performed a field exam on 9/28/2023 unaccompanied, with the applicant Mr. Patrick McBurney Sr authorizing property access prior to the exam, which showed a spring fed pond & an in-stream pond being used for Recreation Storage, Fire Protection Storage, & Aesthetic Storage uses. At the PODs, the applicant has excavated two co-located ponds with earthen dam(s) that impound spring water in pond #1 & unnamed stream water in pond #2. The Spring fed pond has a 4-inch PVC overflow discharge pipe installed in the earthen dam routing approximately 10 feet where it discharges into the lower pond #2. Lower pond #2 also has a 4-inch PVC overflow discharge pipe in the dam that allows routes water downstream from the pond in a stream channel that is tributary to Priest River.

The PODs were designated by GPS as earthen pond dams constructed along the down slope circumference of each pond. Photographs were taken that illustrate the two ponds are indeed capturing spring water and subsequent unnamed stream water. The storage pond(s) serves as the POU for multiple storage beneficial uses detailed above, and no water is actively pumped from the pond for use by the applicant.

During licensing review, ArcMap aerial imagery coupled with field exam notes were used to trace out the POU shape for each pond's surface area, which are less than 0.05 acres in surface area per pond, with size/volume factors detailed below:

- Pond #1 – has a maximum depth of 6 feet, an average depth of 2.4 ft, a pond capacity of 0.1 af, and an estimated seepage & evaporation loss of 0.2 af. Based on pond development and current pond analysis worksheet calculations, each beneficial use annual volume equals 0.3 af from this pond.
- Pond #2 – has a maximum depth of 6 feet, an average depth of 2.4 ft, a pond capacity of 0.1 af, and an estimated

seepage & evaporation loss of 0.2 af. Based on pond development and current pond analysis worksheet calculations, each beneficial use annual volume equals 0.3 af from this pond.

The annual diversion volume for each beneficial use equals 0.6 af, which is the sum of both ponds volume factors. The three beneficial uses are not additive toward the maximum diversion volume of **0.6 af** that is recommended to license this right.

The Permit designated pond #1's spring water source in location: Twp 56N, Rge 05W, Sec 12, **NW** $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$. Beneficial use field exam using a Garmin GPS identified the upper pond outflow pipe with the legal description: Twp 56N, Rge 05W, Sec 12, **SW** $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$. Spring water sources are required to legally described to the 10-acre PLSS legal description. Department staff mailed an Application for Amendment (For Licensing Purposes) to the applicant on 11/2/2023, which was received back from the applicant on 11/9/2023. The amendment corrects the 10-acre legal description for the POD at time of licensing.

Conditions 029 & 220 were removed from the permit during licensing review. 220 was removed based on licensing guidance from Shelley Keen – IDWR Deputy Director. A text condition describing Recreation Storage water use was removed from the permit as the description is not required for licensing purposes. 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>
RECREATION STORAGE	01/01 to 12/31	0.6 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	0.6 AF
AESTHETIC STORAGE	01/01 to 12/31	0.6 AF

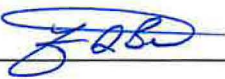
Totals: 0.6 AF

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  Date 11/13/2023

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Attachment to Field Exam
97-7735

This map depicts the RECREATION STORAGE, FIRE PROTECTION STORAGE,
& AESTHETIC STORAGE system diagram.



0 0.03 0.06 0.12 Miles

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



Total Storage Calculations

FILE NUMBER	97-7735
REVIEWER	Luke Bates
DATE	11/9/2023

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

Spring Fed Pond

Surface Area (AC.)	0.04	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.4	"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)	0.1	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)	0.1	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)	0.3	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.

Total Storage Calculations

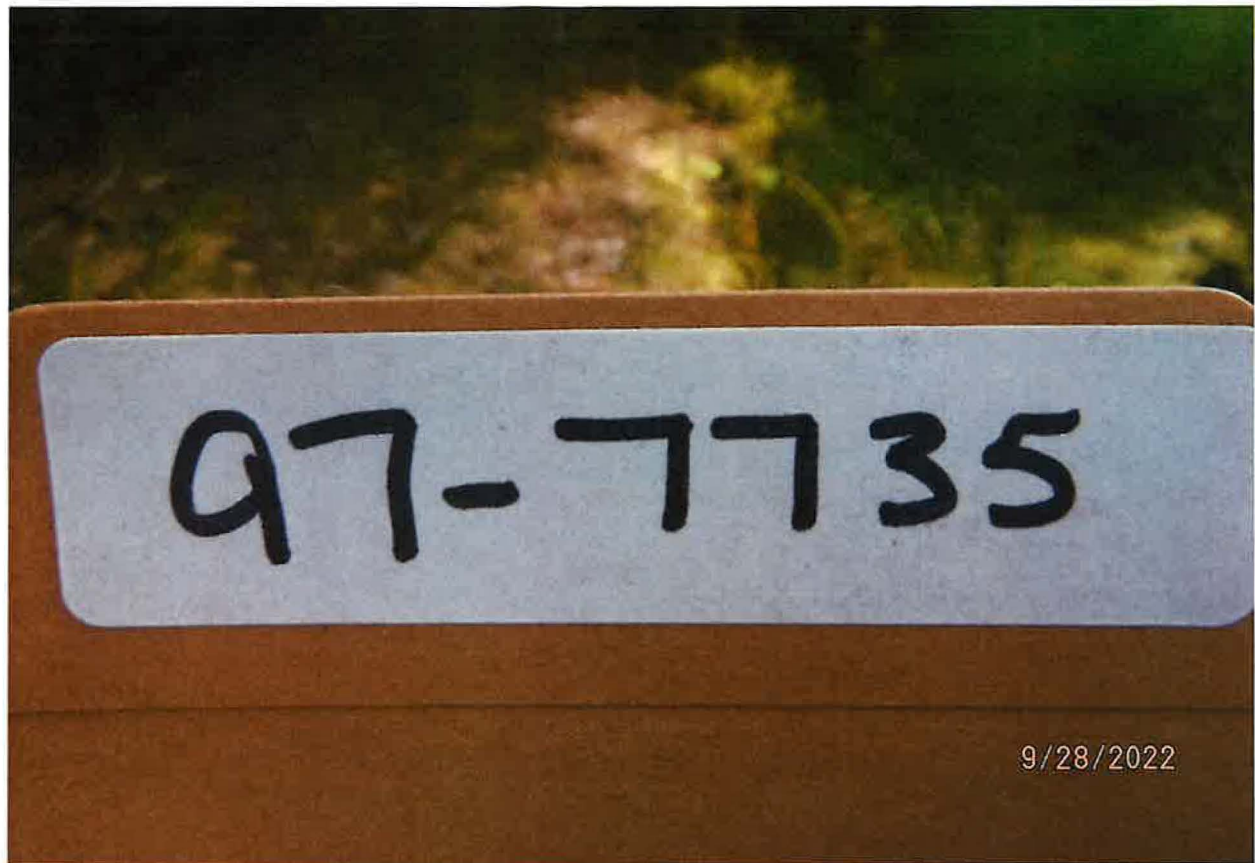
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User Input
Calculated value
Formula Explanations

POND 2 (LOWER pond)

Surface Area (AC.)	0.06	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.4	"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)	0.1	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.
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Estimated Seepage Loss (AF)	0.1	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)	0.3	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.



BENEFICIAL USE FIELD EXAMINATION DATE 9/28/2022

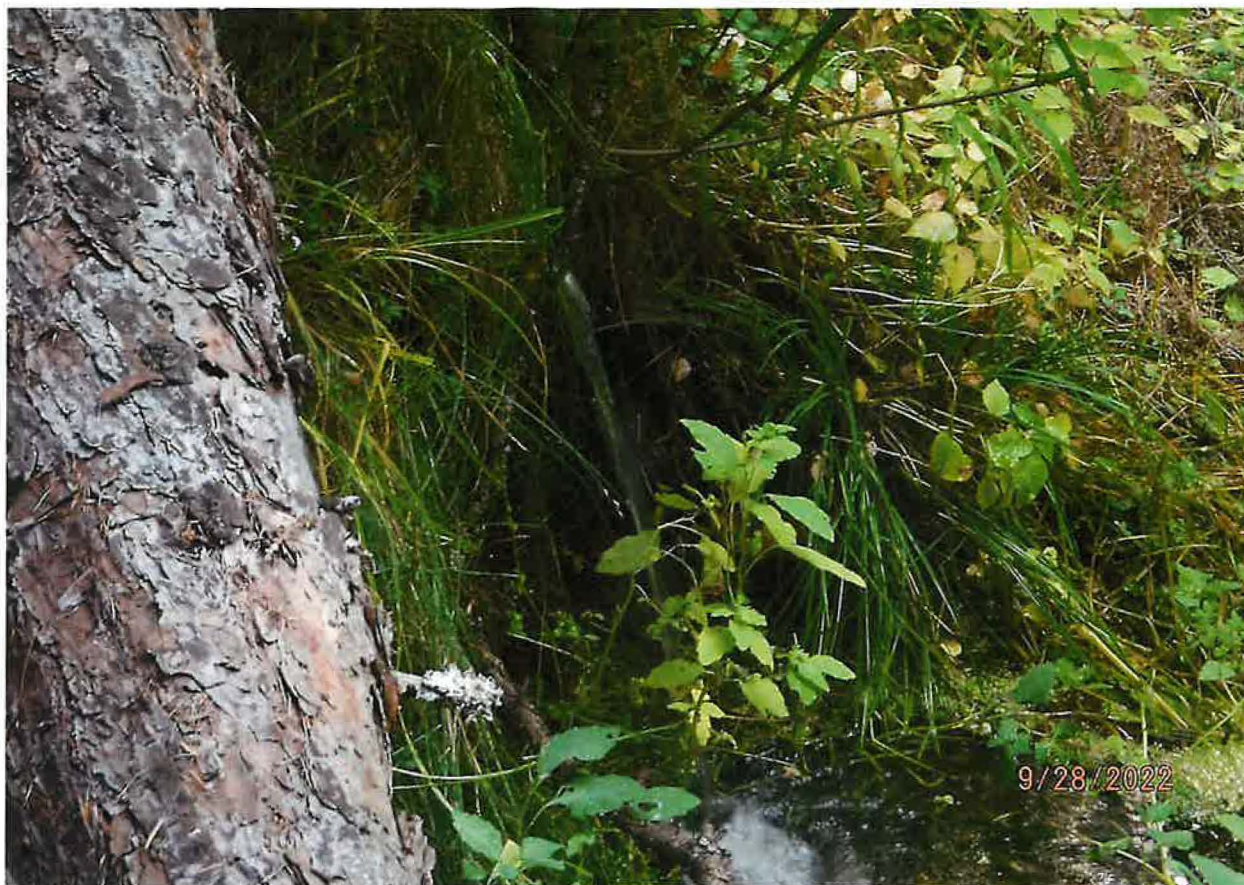


UPPER POND POD – EARTHEN DAM WITH 4 INCH PVC PIPE OVERFLOW INSTALLED

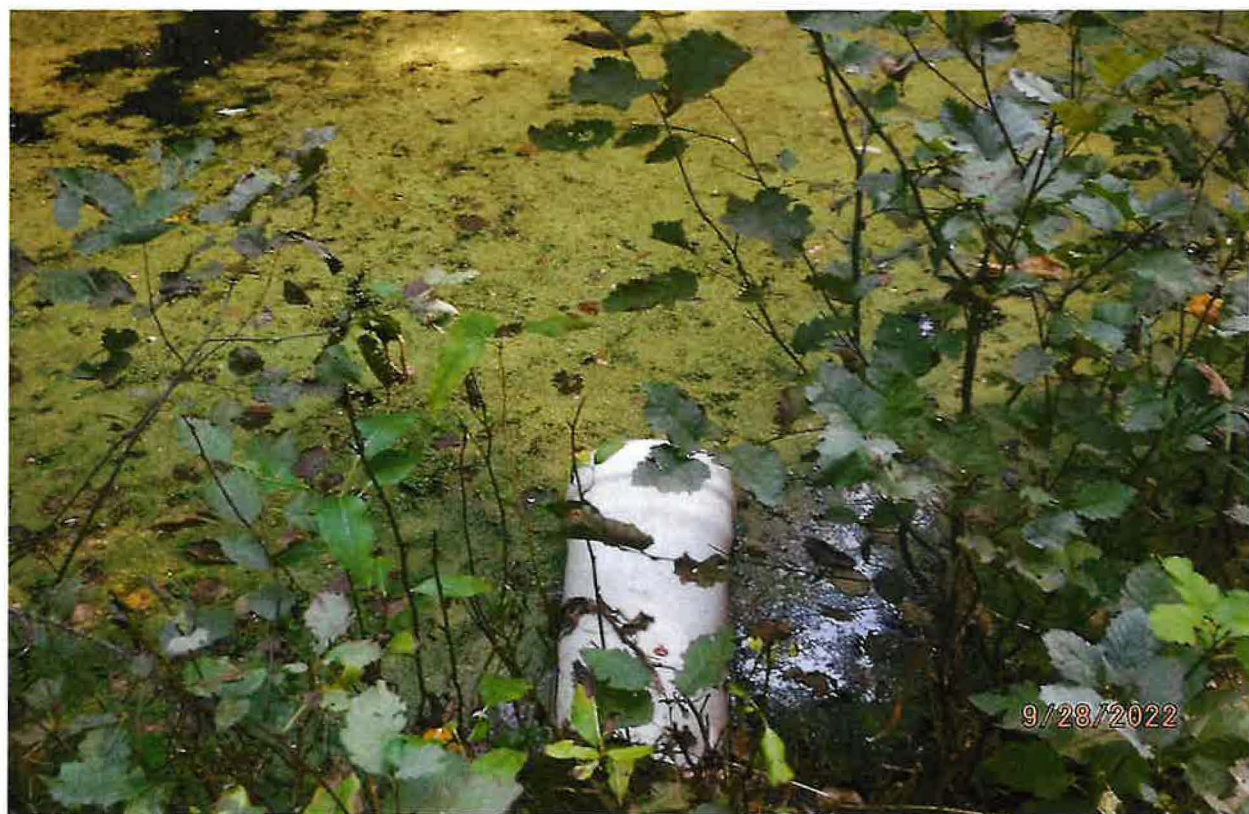


UPPER STORAGE POND POU – RECREATION, FIRE PROTECTION, & AESTHETIC STORAGE(S)





OVERFLOW DISCHARGE PIPE FROM UPPER POND TO LOWER POND – APPROX 10 FT OF PIPE SEPARATES PONDS



LOWER POND POD – EARTHEN DAM WITH 4 INCH PVC PIPE OVERFLOW DISCHARGE DEVICE INSTALLED



LOWER POND OVERFLOW DISCHARGE PIPE ROUTES DOWN HILL TO PRIEST RIVER





LOWER STORAGE POND POU – RECREATION, FIRE PROTECTION, & AESTHETIC STORAGE(S)

