

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 96-9756Exam Date: 1/20/2021

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: Marianne Bachus John and/or Kenneth M. John
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

The parcel associated with this permit is in the name of John Trust, Kenneth M. John and Marianne Bachus-John Trustees. Even though property is in a trust, the trustees are listed on the water right permit.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C109816

4. **SOURCE** **TRIBUTARY**

Pend Oreille River

Columbia River

Method of Determination: GIS and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: Water right 96-7816 show the place of use in this same 40 acre tract, but the address for this property is actually on the other side of the river. Therefore I don't consider it an overlapping water right. There are other irrigation rights in this 40 acre tract for the neighbors to the east of this property.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping rights for this point of diversion. There are several other rights in this area that are for different parcels in this same 40 acre tract.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Diversion			SE	SE	26	57N	3W	B.M.	BONNER
								B.M.	
								B.M.	

Method of Determination: GIS, Well Driller's Report, and Tax Parcel Data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	3W	26																0.3	0.3
		Lot #																1	
Total Acres =																			0.3

Method of Determination: GIS and Tax Parcel DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well Pump	Unknown	½			

*Code to correspond with No. on map and aerial photo

Please Note: The application for permit provides the Horsepower of the pump, but doesn't provide any of the additional information required above.

D. FLOW MEASUREMENTS

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

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

The application for permit stated that the pump to be used would be an electrical ½ Hp pump. Using the theoretical calculation, and the standard diversion rate per acre allowed under 5 acres in Administrative Processing Memorandum #17, was used to determine the diversion rate. For the theoretical calculation, I used the maximum lift determined from the Contour Layer and the average pressure of 50 psi.

Theoretical = $(8.8 \times 0.5 \times 0.70) / (40 \text{ ft} + [50 \times 2.31]) = 0.02 \text{ cfs or } 9 \text{ gpm}$
 Administrative Memo #17 = $0.3 \text{ acres} \times 0.03 \text{ cfs} = 0.009 \text{ cfs rounded to } 0.01 \text{ cfs}$
 Permit allowed = 0.02 cfs

I chose to use the 0.02 cfs, since that was the amount of water recommended for the permit, and the designed pump capacity. The acres didn't increase from the amount issued in the permit, so we shouldn't change the diversion rate at the time of licensing when the water system was designed to match the permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \text{ acres} \times 3.0 \text{ af/ac} = 0.9 \text{ af} = 0.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 8.5 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.9 \text{ af}$$

PLEASE NOTE: The source for this permit is a river, and IDAPA rules provide that irrigation uses from a river do not require a volume.

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USEIrrigation ☒ Y ___ N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ___ Y ___ N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. This home was built in the 1980's and the yard appears to have been in place for some time. It is clear from the 2019 aerial imagery that the property was irrigated. Therefore, I am recommending this permit for approval.

Generally, the point of diversion is the location on the river bank. However, the permit lists the point of diversion as being at the dock. This places the point of diversion outside of Government Lot 1 (SESE). It doesn't seem reasonable to require an amendment or change the point of diversion at licensing. Therefore, I will leave the point of diversion where it was placed on the permit approval maps.

This permit included condition 029 that requires that a fish screen be installed. The permit holder stated on the proof of beneficial use form that the fish screen was installed, so this condition does not need to be moved forward to licensing.

Conditions 004 should be carried forward to licensing. Condition R66 should be changed to condition X31 with a volume of 0.9 af as is standard for all rights under 1 acre. The remaining conditions should be removed.

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

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 to 10/31	0.02 CFS	

Totals: 0.02 CFS

PLEASE NOTE: The source for this permit is a river, and IDAPA rules provide that irrigation uses from a river do not require a volume.

2. Recommended Amendments

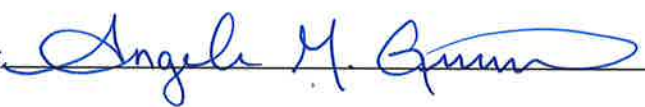
___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

___ Change P.U. as reflected above ___ Add P.U. as reflected above X None

Other: < >

J. AUTHENTICATION - DANIEL A. NELSON - WATER RIGHT ANALYST 3

Field Examiner's Name  Date 1-21-21

Reviewer  Date 1/21/2021

Field Exam Map:

The yellow border shows the place of use and the yellow point shows the point of diversion.

