

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

A. GENERAL INFORMATION

Exam Date: 12/23/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. X 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: Rich Carvalho
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
3. Beneficial Use Fees have been paid: X Y N Receipt No: C119471
4. Source: Pend Oreille River Tributary: Columbia River

Method of Determination: GIS, Idaho Tax Parcel Data, and the Permit Holders Statement of Completion for Proof of Beneficial Use (Proof Statement).

Change 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
96-8823	Groundwater	Irrigation	License, Claim
96-8788	Unnamed Stream	Irrigation	License
96-8524	Pend Oreille River	Irrigation	License

Comments: Water rights (WR) 96-8823, 96-8788 and 96-8524 overlap the permitted place of use (POU). However, after looking at the WR backfile 96-8788 and 96-8524 do not overlap the permitted POU. WR 96-8823 authorizes irrigation that does not connect to 96-17003's diversion system or diverts from the same source. Therefore, there is no reason to limit 96-17003 when combined with 96-8823.

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: No other water right licenses or adjudication claims overlap the permitted point of diversion (POD).

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Pend Oreille River	1		NE	NE	6	56N	02W	B.M.	Bonner

Method of Determination: GIS and Idaho Tax Parcel Data.

Change in POD?	Y	X	N	Amendment Required?	Y	X	N
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2. Place of Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	02W	6	0.1	0.1															0.2
56N	02W	31															0.1		0.1
		Lot #	1	2													8		
Total Acres =																			0.3

Method of Determination: GIS, Idaho Tax Parcel Data, and 2024 Bonner County Aerial Imagery.Change in POU? Y X N Amendment Required? Y X N

3. Diversion System Information:

Description: The diversion system consists of a perforated metal intake pipe attached to 2 in poly pipe which is connected to a 120-volt pump. Water is delivered via a 1 in poly pipe to nine sprinkler zones. N/A Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo indicating the location of the recommended POD and POU (required). X Additional Aerial Photo. N/A Photo of Diversion and System Attached

3. 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
N/A						

2. Measurement Comments: The permit holder provided the voltage of the pump used to divert water. However, this is insufficient to determine a pump horsepower. Therefore, a theoretical diversion rate calculation is not possible.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Since the permit holder did not provide enough information to determine a pump horsepower a theoretical diversion rate calculation was not possible. According to Administrative Application Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. The permit authorized 0.03 cfs. I am recommending a 0.01 cfs diversion rate.

$$(0.3 \text{ acres}) * (0.03 \text{ cfs/acre}) = 0.009 \text{ cfs or } 0.01 \text{ cfs rounded}$$

Administrative Application Processing Memo #17 Calculation: 0.01 cfs

Permit allowed = 0.03 cfs

Total Recommendation: 0.01 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: The permit authorizes irrigation diverting from a natural flowing stream or river. If a permit authorizes irrigation diverting from a natural flowing stream/river or spring a diversion volume is not required at licensing according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01j.viii

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{See Comment Above}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{See Comment Above}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{See Comment Above}$$

G. PURPOSE OF USEIrrigation X Y N # Stock N/A Domestic # of Homes N/AChange in Purpose of Use? Y X NMethod of Determination: GIS, Idaho Tax Parcel Data, 2024 Bonner County Aerial Imagery, and the permit holders Proof Statement.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. The permit authorizes the irrigation of 0.4 acres diverting from the Pend Oreille River. 2024 Bonner County Aerial Imagery confirmed the irrigation of 0.3 acres within the development period. The diversion system consists of a perforated metal intake pipe attached to 2 in poly pipe connected to a 120-volt pump. Water is delivered via a 1 in poly pipe to 9 sprinkler zones. A condition on the permit requires the permit holder to install a fish screen meeting the fish screening and passage requirements of the Idaho Department of Fish and Game. The permit holder did not indicate on their Proof Statement a fish screen was installed. After a phone conversation on December 20th, 2024, the permit holder confirmed a fish screen was installed on the pump intake pipe.

The permit holder indicated they installed a 120-volt intake pump. However, this is insufficient information to determine a pump horsepower. Therefore, a theoretical diversion rate calculation was not possible. The standards set in Administrative Application Processing Memo # 17 aided in determining a recommended diversion rate. Since the permit authorized diversion from a natural flowing stream/river a diversion volume is not required at licensing according to the IDAPA Beneficial Use Examination Rules 37.03.02.035.01j.viii. All of the conditions have been met and development of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.01 cfs diversion rate.

Conditions X60 and X31 should remain on the permit. Condition X31 should be updated to reflect the recommended diversion rate. Condition 029 should be removed because the permit holder confirmed they installed a fish screen meeting the fish screening and passage requirements of the Idaho Department of Fish and Game. Condition 004 should be removed from license because according to 2024 Bonner County Aerial Imagery and Idaho Tax Parcel Data there are no legal access concerns to either the POD or POU.

Have conditions of permit approval been met? X Yes No**I. RECOMMENDATIONS**

1. Recommended Amounts:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
Irrigation	04/01-10/31	0.01 CFS
<u>Totals:</u>		0.01 CFS

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**J. AUTHENTICATION**Field Examiner: **Skyler Cheever – Water Resource Agent, Sr – State Office**

Field Examiner's



Date

8/13/2028

Reviewer



Date

8/19/25

Field Exam Map

Map showing the authorized point of diversion (yellow point) and irrigated place of use (orange outline).



2024 Bonner County Aerial Imagery

96-17003

