

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

A. GENERAL INFORMATION

Exam Date: 9/24/2024

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: Scott and Dawn Dempsey
- 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: N044714
4. Source: Boyer Slough Tributary: Lake Pend Oreille

Method of Determination: _____
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
96-7011	Lake Pend Oreille	Domestic/Municipal	License
96-8953	Lake Pend Oreille	Municipal	License
96-10753	Ground Water	Domestic	Beneficial Use

Comments:

Water rights 96-7011 and 96-8953 are both service areas that encompass the parcel incidentally for beneficial uses not relevant to the beneficial use of 96-12624. Water right 96-10753 encompasses multiple parcels and supplies multiple households.

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

Water Right No.	Source	Purpose of Use	Basis

Comments:

The point of diversion is unique to this water permit.

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Boyer Slough			SE	SW	6	57N	01W	B.M.	Bonner

Method of Determination:

Change in POD?	Y	X	N	Amendment Required?	Y	X	N
-----------------------	----------	----------	----------	----------------------------	----------	----------	----------

2. Place of Use:

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	01W	6												0.4					
Total Acres =																			0.4

Method of Determination:

Change in POU? ☐ Y ☒ N Amendment Required? ☐ Y ☒ N

3. Diversion System Information:

Description:

☐ 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

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump					

*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
None						

2. Measurement Comments: No measurement is required for an in-house exam, but Applications Processing memo #17 and a theoretical calculation were used to determine an acceptable rate.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

No information on the pump was provided by the permit holder. Per processing memo #17, a diversion of 0.03 cfs per acre for irrigation purposes is authorized for less than 5 acres. Because the permit holder is irrigating 0.4 acres, I am authorizing a diversion rate of 0.01 cfs. See the calculation below

$$0.03 \text{ cfs} * 0.4 \text{ acres} = 0.01 \text{ cfs}$$

Permitted Rate = 0.03cfs**Theoretical Rate = 0.01 cfs****B.U Limit = 0.01 cfs****Recommended Rate = 0.01 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.4 \text{ acres} \times 3 \text{ afa} = 1.2 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \text{ cfs} \times 214 \times 1.9835 = 4.24 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ afa}$$

G. PURPOSE OF USEIrrigation X Y N # Stock Domestic # of Homes

Other: < >

Change in Purpose of Use? Y X N

Method of Determination:

If Yes: From Use To Use Amount CFS AFA **H. NARRATIVE/REMARKS/COMMENTS**

Permit 96-12624 qualifies for an in-office examination because the permitted rate is less than 0.24 cfs and there is no storage component.

The information for the current permit holder matches the information on the statement of completion provided to the Department. No pictures of the diversion works were provided. The permit holder described the delivery system as a "pump for irrigation" and prior application documentation states that the diversion works are pre-existing. The irrigation place of use shape was updated using Bonner County Assessor GIS maps to exclude the driveway and house located on the property, however the polygon is still approximately 0.4 acres. Guidance from application processing memo #17 permits a diversion rate of 0.03 cfs per acre for irrigation of 5 acres or less. I am recommending a diversion rate of 0.01 cfs and a volume of 1.2 afa for the irrigation of 0.4 acres.

Condition X31 will be retained because the irrigated area is under 1. Condition 029 has been satisfied and will be removed at licensing. Condition 004 will be retained because the point of diversion is outside of the parcel pertinent to the place of use. Condition X60 will be retained for the sake of clarity and record keeping.

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>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 to 10/31	0.01 cfs	1.2 afa
<u>Totals:</u>		0.01 cfs	1.2 afa

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- Water Resources Agent- Jacob Caraig

Field Examiner's

Jacob Caraig

Date

10/29/2024

Reviewer

TH

Date

10/30/24Supporting Imagery –

1. Bonner County Assessor GIS view of property



2. Map of Place of use and Point of Diversion for irrigation beneficial use.

State of Idaho
Department of Water Resources
Attachment to Water Right
96-12624

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.035 0.07 0.14 Miles



Caraig, Jacob

From: Caraig, Jacob
Sent: Wednesday, September 25, 2024 4:50 PM
To: DEMPSEY & ASSOCIATES
Subject: RE: Fish Screen on Point of Diversion for Permit 96-12624

Certainly, happy to! It sounds like a fish screen is already installed from your description of the intake. Thanks for letting me know.

-Jacob Caraig

From: DEMPSEY & ASSOCIATES <dempseyandassociates@live.com>
Sent: Wednesday, September 25, 2024 3:59 PM
To: Caraig, Jacob <jacob.caraig@idwr.idaho.gov>
Subject: Re: Fish Screen on Point of Diversion for Permit 96-12624

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Hello Caraig , Its been awhile since i've inspected the intake but it had a tapered stainless end on it with little holes the last time i looked when the water was down. I'll double check after the water goes down to confirm proper maintenance . Thanks for checking in and your help on this

From: Caraig, Jacob <jacob.caraig@idwr.idaho.gov>
Sent: Wednesday, September 25, 2024 12:23 PM
To: dempseyandassociates@live.com <dempseyandassociates@live.com>
Subject: Fish Screen on Point of Diversion for Permit 96-12624

Good afternoon Mr. and Mrs. Dempsey,

I am currently in the process of converting your permit for irrigation water into a license and wanted to inquire about whether or not a fish screen is installed on the intake pipe for your diversion from Boyer Slough per the conditions of your issued permit (see attached). No pictures are required, just confirmation from either of you.

Have an excellent day,

-Jacob Caraig



Jacob Caraig

Idaho Dept. of Water Resources

Engineer Intern

Office # 208-287-4879

Jacob.Caraig@idwr.idaho.gov

<https://www.idwr.idaho.gov/water-rights/>