

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

A. GENERAL INFORMATION

Permit No: 96-14087

Exam Date: 05/07/2024

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

2. Current Owner: ROBERT & BARBARA JONES 17025 N SADDLE HILL RD, COLBERT, WA 99005-9364

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

- Bonner County Tax Parcel information shows Robert L & Barbara A Jones as the owners of the property RP000410000090A. I don't see any issues with the ownership of this permit or proposed license.

3. Beneficial Use Fees have been paid: X Y N Receipt No: N044348

4. **SOURCE:** Pend Oreille River **TRIBUTARY:** Columbia River

Method of Determination: ArcMap GIS and Tax Parcel Data.

Change in Source: Y X N**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
96-7616	Pend Orielle River	Domestic & Industrial	Active License/No Claim filed

Comments: Active License 96-7616's for LaCleda Water district from Pend Oreille River is for domestic use & industrial use. has not been claimed, as of this date, in the CFRBA Adjudication. The domestic use POU does overlap this right's irrigation POU, but the domestic use is being developed from a separate system. If licensed as permitted, 96-7616's domestic use is a separate water system than this surface source irrigation system and there are no concern for overlap between Right(s).

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

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Lake Pump			SE	SE	30	56N	03W	B.M.	BONNER

Method of Determination: GIS and Tax Parcel Data.

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

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	03W	30																0.3	0.3
		Lot #																L7	
																		Total Acres =	0.3

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Screened intake with portable water pump to hose and sprinkler(s).

 Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo Attached (required) Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Centrifugal Pump	Gould	2 HP			

D. FLOW MEASUREMENTS

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

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Measurement = 0.3 ac x 0.03 cfs = 0.009 or 0.01 cfs based on department rounding standards.
 Permit allowed = 0.03 cfs

Comments: The Statement of Completion identified use of a 2 HP pump and the application stated it was a Gould centrifugal multi-stage pump which goes to a irrigation system to the POU. Due to flow measurements not being required, I'm recommending a diversion rate based on Administrative Memo – Application Processing No. 17, which authorizes up to 0.03 cfs per acre for small acreage irrigation. Generally, portable pumps used to divert water from a lake or river are slightly oversized regarding diversion capacity; this is required to achieve elevation lift while maintaining adequate head pressure to water using hose and sprinklers. This portable irrigation pump is capable of producing **0.01 cfs** or 5 gpm, which I'm recommending for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 12.7$$

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

2. Volume Calculations for Other Uses: Surface water (river) source, no volume metrics shall be applied to face of license.

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

Other: < >

Change in Purpose of Use? X N

Method of Determination: Tax lot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There are no overlapping water right concerns toward licensing this permit. Review of aerial imagery from Bonner County GIS maps, Google Earth, and ArcMap software clearly illustrates the irrigated area; there is an apparent shift/drift in aerial imagery which I've considered when designating the irrigation POU shape in AdHoc. Irrigation is for lawn & minor landscape on the property.

IDAPA 37.03.02 Beneficial Use Examination Rules designate irrigation using this surface water river source is exempt from volume reporting requirements. There is no maximum diversion volume or annual diversion volume recommended for licensing. Condition X31 provides annual volume limitations for the recommended irrigation beneficial use.

The permit holder asserts by description & declaration in step No. 6 on the Proof of Beneficial Use form that a fish is installed satisfying screening requirements.

I removed condition 029 from the permit during licensing review and all other conditions shall be carried to license approval.

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>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.01 CFS	0.9 AF

Totals: 0.01 CFS 0.9 AF

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 Tammy Alleman, Water Resource Agent

Field Examiner's Tammy Alle Date 5/9/24

Reviewer Chase Bell Date 5/14/24



Arcmap, Google Earth & Bonner County Maps

PUMP SPECIFICATIONS



Goulds HSC20, Multi-Stage Centrifugal Pump, HSC Series, 2 HP, 230 Volts, 1 Phase, 3 Stages, 1-1/4" Suction, 1" Discharge, 53 GPM Max., 218 ft. Max.



SKU #: HSC20 Brand: Goulds

[In Stock!](#) (Ships Today!)

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Price:

Qty:

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MAP

\$ LIST PRICE 2,428.00

Disclaimer: See final price in cart

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Ship Weight (75.00 lbs)

DESCRIPTION	MANUALS	SPECIFICATIONS	REPAIR PARTS	REPAIR DIAGRAM	BUYERS GUIDES	ASK A QUESTION ?
Brand		Goulds				
Mfg. Number		HSC20				
Series		HSC				
Product Type		Centrifugal pump				
Application		Water circulation/Booster				
Horsepower		2 HP				
Voltage		230 volts				
Phase		1				
Stages		3				
Frequency		60 Hz				
Speed		3500 RPM				
Design		Multi-stage/Close coupled				
Suction Connection		1-1/4"				
				Discharge Connection	1"	
				Maximum Capacity	53 GPM	
				Maximum Head	218 ft.	
				Impeller Material	Glass-filled thermoplastic	
				Motor Shaft Material	Stainless steel	
				Rotation	Clockwise viewed from motor end	
				Enclosure	ODP	
				Overload Protection	Yes	
				Pressures	100 PSI (230ft.)	
				Max. Working Pressure	125 PSI	
				Max. Temperature (Continuous)	180°F	

PERFORMANCE CURVE

