

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

A. GENERAL INFORMATION

Permit No: 96-10862

Exam Date: 08/05/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N

- a. N/A Irrigation of 5 acres or less
 b. N/A Storage of up to 14.6 AF for stockwater purposes only
 c. X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 d. N/A Other < >

2. Current Owner: MORIARTY TRUST

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

If No Explain:

- Bonner County Tax Parcel information shows Moriarty Trust as the owner of parcel RP007990000050A. 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: C1183344. **SOURCE:** Lake Pend Oreille**TRIBUTARY:** Pend Oreille 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: 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:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
LAKE PEND OREILLE			NW	NE	3	56N	01E	B.M.	BONNER

Method of Determination: ArcMap aerial imagery, Google Earth imagery, and Bonner County GIS tax parcel maps.

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

2. Place of 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	
56N	01E	3		X															

Method of Determination: GIS and tax parcel data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Screened intake pipe with pump diverting from the lake to domestic water system.

☐ Delivery System Diagram Attached. (mark all major components and distances between components)☒ 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
LAKE PUMP	Unknown	1.5	Unknown	Goulds	Model 25GS15432; 1-1/4 INCH

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

Domestic:

Measurement = 1 home authorized a diversion rate of 0.04 cfs based on Administrator's Memorandum, Application Processing No. 22: Definition of "Domestic".

Permit allowed = 0.04 cfs

License Recommendation = **0.04 cfs**

Comments:

I requested water system diverting works information and the applicant supplied details by email asserting a Goulds 1.5 HP pump is installed in the diversion system. The maximum pump capacity is 25 gpm demonstrates the pump is capable of diverting 0.04 cfs as recommended for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Maximum Diversion Volume = **1.2 af**.

G. PURPOSE OF USE

Irrigation ☐ N/A ☐ # Stock ☐ N/A ☐ Domestic # of Homes: 1

Other: < N/A >

Change in Purpose of Use? ☒ N ☐ Y

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 this Permit. I used the ArcMap Permit POD centroid to assign the License POD. The Permit Holders diversion works includes a 1.5 HP Goulds submersible lake pump, screened with 1-1/4-inch intake pipe routing up slope on the parcel to the residence for domestic water usage. I reviewed Department records for groundwater well information applicable to the QQ/Q legal description and there are no wells on record in the NW1/4NE1/4 QQ/Q legal description. This indicates the surface water source is the Permit Holders' only domestic water source for their property. I've recommended 0.04 cfs for licensing the domestic beneficial use.

I used ArcMap aerial imagery, Google Earth software, and Bonner County GIS tax parcel maps to evaluate the domestic POU. Bonner County tax information reflects a year-built date of 1990 for parcel RP007990000050A. There is apparent aerial shift/drift in the aerial imagery, but a primary residence is clearly illustrated reviewing Bonner County GIS tax parcel imagery. I've recommended the annual diversion volume of **1.2 af** which equals the Maximum Diversion Volume designated for licensing purposes.

The permit holder asserts by declaration in step No. 7 on the Statement of Completion form No. 217 12/15 (old form) that a fish screen was required and has been installed; I've removed condition 029 from the permit based on this information. I added condition X60 to the Permit describing the domestic POU being on a parcel within a named subdivision. All other conditions shall be carried to license approval.

Have conditions of permit approval been met? ☒ 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>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
<u>Totals:</u>		0.04 CFS	1.2 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

Other: < N/A >

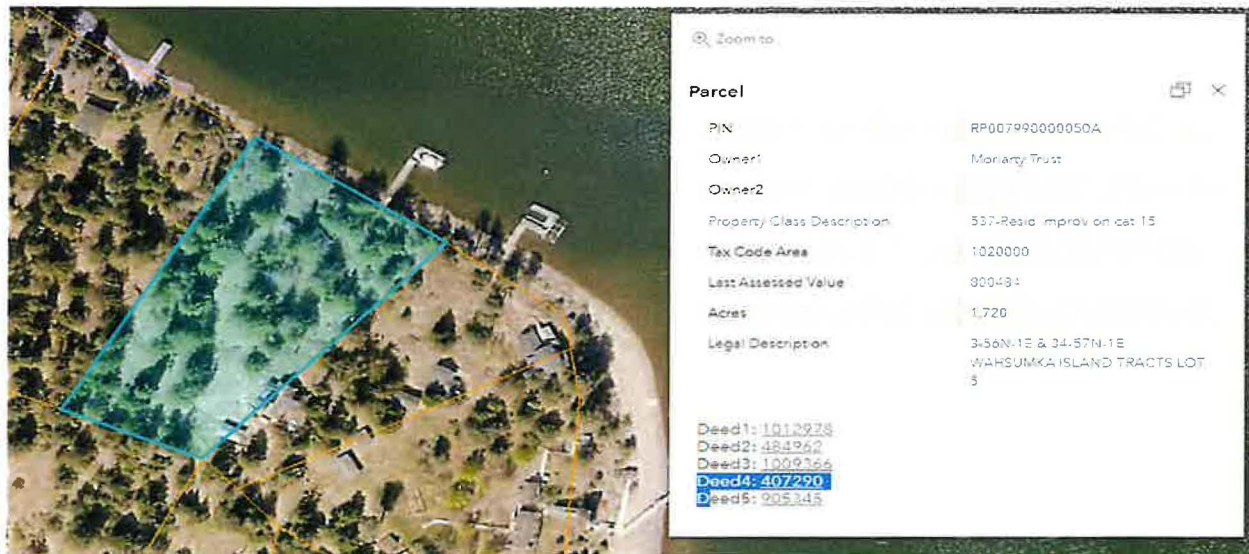
J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's  Date 8/5/2024

Reviewer  Date 1/15/2025

Field Exam Map(s): 1392 Warren Is Shr, Hope ID 83836. Lot 5; Wahsumka Island Tracts Subdivision.

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 6/28/2024



Tax Parcel No. RP007990000050A – SHIFT IN AERIAL IMAGERY



😊 ↩ Reply ↩ Reply All → Forward 🏠 ...

Mon 8/5/2024 3:02 PM

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.

Pete

SCIENCE

		Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																			
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460
25GS10	1	0			32.8	30.8	28.6	26.2	23.5	20.0	16.2	11.0									
		20	31.8	30.0	27.5	25.2	22.0	19.0	15.0	8.0											
		30	29.6	27.2	25.0	21.6	18.0	14.0													
		40	27.1	24.9	21.5	17.9	13.9														
		50	24.3	21.0	17.5	13.0															
		60	20.0	16.2	11.0																
Shut-off PSI			82	74	65	56	48	39	30	22	13	4									
25GS15	1½	0				33.0	31.8	30.3	28.8	26.9	24.8	22.0	19.8	16.5	11.0						
		20		32.6	31.2	29.6	28.0	26.0	23.8	21.0	18.1	14.8	8.0								
		30	32.5	31.0	29.5	27.6	25.6	23.2	20.9	17.9	14.0										
		40	30.9	29.4	27.5	25.5	23.1	20.8	17.7	13.6											
		50	29.0	27.2	25.1	22.9	20.4	17.2	13.0												
		60	26.9	24.8	22.0	19.8	16.5	11.0													
Shut-off PSI			111	103	94	85	77	68	59	51	42	33	25	16	7						

Bates, Luke

From: Peter Moriarty <pmoriarty@mac.com>
Sent: Friday, August 2, 2024 6:52 PM
To: Bates, Luke
Subject: Re: IDWR water permit 96-10862

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.

Luke,

I got a response from our contractor who subcontracted the work. They installed a Gould pump 25gs15432, 25 gpm 1 1/2 hp.

Please let me know if your need anything else.

Pete

Sent from my iPhone

On Aug 1, 2024, at 2:43 PM, Bates, Luke <Luke.Bates@idwr.idaho.gov> wrote:

Mr. Peter Moriarty,

Thank you for sending this information forward; I'm still interested in determining the HP of the pump, as the Aquavar Solo 2 pump motor controller 3AS20 is capable of several different pump sizes. This style of pump controller doesn't typically have data plates on them because they can be coupled to a variety of different HP pumps, so they leave that info off. The invoice will be the best place to seek information on pump motor or pump end which may be a Goulds brand pump end that commonly pair with the Centripro pump motor.

Thank you for your assistance in pursuit of this information; the HP is the last piece of the system I need to finalize your permit for licensing purposes.

V/r,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817

<image001.jpg>

7600 N. Mineral Dr., Suite 100
Coeur D'Alene, ID 83815-7763

Bates, Luke

From: Peter Moriarty <pmoriarty@mac.com>
Sent: Wednesday, July 10, 2024 3:02 PM
To: Bates, Luke
Subject: Re: IDWR water permit 96-10862

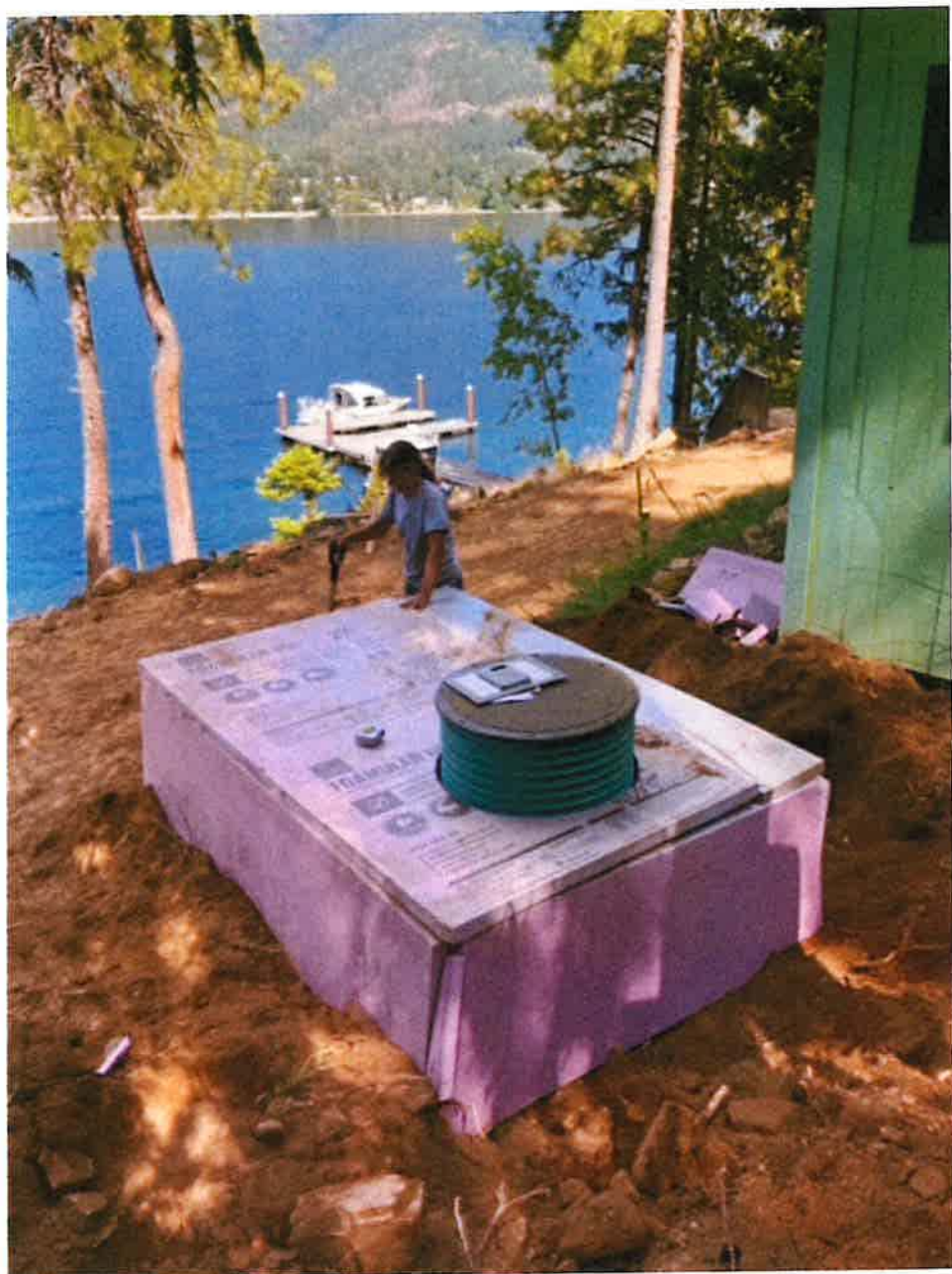
CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Luke,

For item 1, I'm still waiting for the make/model/hp of the pump from my contractor. He's checking the subcontractor's invoice and will call the sub if it's not on the invoice. This is a photo of the pump controller. I didn't see a nameplate for the pump on it or inside it. Also some photos of the vault.



For item 2, here are some additional photos in the vault where we set up the pressure tank and filtration.





For item 3, we are not hooked up to any other community system or private well source.

Hope to have some additional info from you by tomorrow.

Pete

Sent from my iPhone

On Jun 18, 2024, at 8:19 AM, Bates, Luke <Luke.Bates@idwr.idaho.gov> wrote:

Thank you for the follow-up Pete, I appreciate the info and will await pump information in the week following the 28th.

Regards,
Luke Bates
Sr. Water Resource Agent
Northern Region
P: 208-762-2817
<image001.jpg>

7600 N. Mineral Dr., Suite 100
Coeur D'Alene, ID 83815-7763

From: Peter Moriarty <pmoriarty@mac.com>
Sent: Tuesday, June 18, 2024 8:16 AM
To: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Subject: Re: IDWR water permit 96-10862

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.

Luke,

We have numerous project photos, but I wasn't there the day the pump was installed so I missed the opportunity to capture any of the pump components. I will reach out to the contractor to get the specs. I will be on the property 6/28 and will be able to get the nameplate photos on that date.

Pete

Sent from my iPhone

On Jun 12, 2024, at 6:36 PM, Bates, Luke <Luke.Bates@idwr.idaho.gov> wrote:

Mr. Peter Moriarty,

Good evening. I've been tasked with licensing review for Permit **96-10862**, which authorized development of Lake Pend Oreille water for Domestic use 1 home with up to ½ acre irrigation. I note your Statement of Completion was received by the Department on 5/17/2024.

The next step is a beneficial use field examination, which I plan to attempt accomplishing via an In-Office exam process. To expedite finalizing this permit for license approval I'm requesting additional water system information related to the lake water pumping diversion system:

1. Do you have a copy of your pump install invoice which describes the pump make/model & horsepower (HP) of the pump? If not, there may be a gray relay control panel associated with the pump motor which typically has a data plate describing the HP paired with the pump. If possible, could you send me a photograph of the relay control panel box and close up of the data plate (not required but helpful)?
2. If you have any photographs taken from during the project install that illustrate pump components I would appreciate if you're able to send a couple forward for use in the beneficial use report (not required but beneficial to the licensing file).

3. Please verify that your home is not service connected to any other community water systems and/or a private groundwater well source.

Thank you in advance for considering the questions detailed above.

Please do respond to this email within 7 days, NLT 6/19/2024, as I work to finalize it for license approval. If I'm unable to obtain adequate information I may need to complete a site visit to complete the field examination process.

Thank you,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817

<image001.jpg>

7600 N. Mineral Dr., Suite 100
Coeur D'Alene, ID 83815-7763