

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

A. GENERAL INFORMATION

Permit No: 96-10454

Exam Date: 06/17/2024

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: KENNETH E KOVALCHUK AND/OR REBECCA KOVALCHUK
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows Kenneth E & Rebecca Kovalchuk as the current owners of tax parcel RPS070300002A0A. 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: C118401
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: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-7863	Lake Pend Oreille	Municipal	License with Notice of Claim filed in the Clark Fork Pend Oreille River Basin Adjudication
96-8793	Pend Oreille River	Irrigation	License

Comments: License 96-7863 is owned by the City of Sandpoint (City), who is a municipal provider with multiple Right(s) from multiple source(s) that serves the municipalities of Sandpoint, Kootenai, Ponderay, and adjacent areas. The Permit Holders are served water by the municipal provider for in-home use but use their surface water system covered by this Permit to water lawn and landscape. There is no concern for overlap regarding the City's water rights which are municipal in nature vice the separate domestic water used by Permit 96-10454.

License 96-8793 shows current ownership in the name of Christann Manning and has a generic bulk POU shape which overlaps this Permit's domestic POU. No party has filed a Notice of Claim for the license in the ongoing CFPRBA, but in the event 96-8793 is claimed the backfile maps illustrate the water use is for a parcel just west of the Permit Holder's parcel. As the beneficial uses are separate and there is no direct correlation or concern for overlap between the two POUs and I don't recommend inclusion of condition X35 toward licensing this Permit.

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
PEND OREILLE RIVER			SW	SE	22	57N	02W	B.M.	BONNER

Method of Determination: ArcMap aerial imagery.

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

Place of Use: DOMESTIC (external use only)

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	02W	22															X		

Method of Determination: GIS and Tax Parcel data.

Change in POU? ☒ N Amendment Required? ☒ N

3. Diversion System Information:

Description: existing river water diversion system pumping to residence for domestic external water use.

☐ 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 Model No.	Pump Make	Pump Serial No. or Discharge Size
Screened Submersible Pump	Unknown	0.5	Unkown	Vevor	S/N 30B02694120088 Type: 4SSM4/5-2 Pump 1 1/4 Inch discharge

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**

Comments:

Based on pump specifications, if the pump is capable of producing 26.4 gpm dependent on system PSI. Based on this information I've recommended the Department standard diversion rate of **0.04 cfs** toward licensing this Permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Maximum Diversion Volume equals **0.6 af** for Domestic external use only up to 1/2 acre irrigation (as covered under domestic use).

G. PURPOSE OF USEIrrigation N/A N # Stock N/A Domestic # of Homes: **EXTERNAL DOMESTIC WATER USE ONLY**

Other: < N/A >

Change in Purpose of Use? X N

Method of Determination: Bonner County tax lot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. Overlapping water right concerns have been evaluated there are no concerns toward licensing this Permit. I used ArcMap to assign the Pend Oreille River POD using the Permit POD centroid which is associated with the river front dock.

The statement of completion did not provide pump specification data and I reached out by email to the Permit Holders on 6/14/2024 requesting additional information. The Permit Holders responded by email(s) on 6/17/2024 providing the following information related to their surface water system:

- 1) A 4-inch PVC pipe with slits cut into it is used to hold a submersible pump, which connects to a 1 ¼-inch intake pipe.
- 2) The pump includes a ¼-inch mesh screen which covers the intake orifice on the pump, in addition to the slits cut in the 4-inch protection pipe detailed above.
- 3) The river source surface water system isn't connected to the residence for use, only used to water the lawn & landscape.
- 4) Photographs were provided illustrating the 0.5 hp Vevor submersible well pump and close-up of the data plate.
- 5) The City of Sandpoint, municipal provider, serves the home on the parcel with in-home water use.

I reviewed Vevor's website documents and created a single page support document illustrating the pump specifications related to the 0.5 hp pump serving as the diverting works and attached it to this report. The diverting pump maximum capacity is shown as 28 gpm dependent on total head pressure requirements.

I'm recommending domestic water use for external use only, as the home was not service connected in the development period of the Permit and is solely used to water lawn space.

I've assigned the domestic POU within the parcel but excluded the residence and non-irrigated areas with watered areas equal to 0.3 acres according to ESRI ArcMap software calculations. I used aerial imagery, Google Earth software, and Bonner County GIS tax parcel maps as I designated the domestic POU using ArcMap software. I've assigned a maximum diversion volume of **0.6 af** for domestic, external use only, of up to ½ acre irrigation toward licensing this Permit.

The permit holder asserted by declaration in step No. 6 on the Statement of Completion form that no fish screen was installed, but email correspondence & photographic evidence illustrate a fish is installed satisfying screening requirements related to condition 029. I removed condition 029 during licensing review. I replaced condition X01 with 239 to accurately describe that domestic water use is for external use associated with 1 home. 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>
DOMESTIC	04/01 to 10/31	0.04 CFS	0.6 AF
<u>Totals:</u>		0.04 CFS	0.6 AF

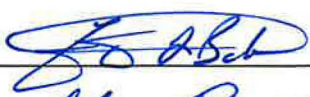
2. Recommended Amendments:

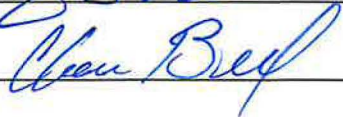
___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

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

Other: < N/A >

J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

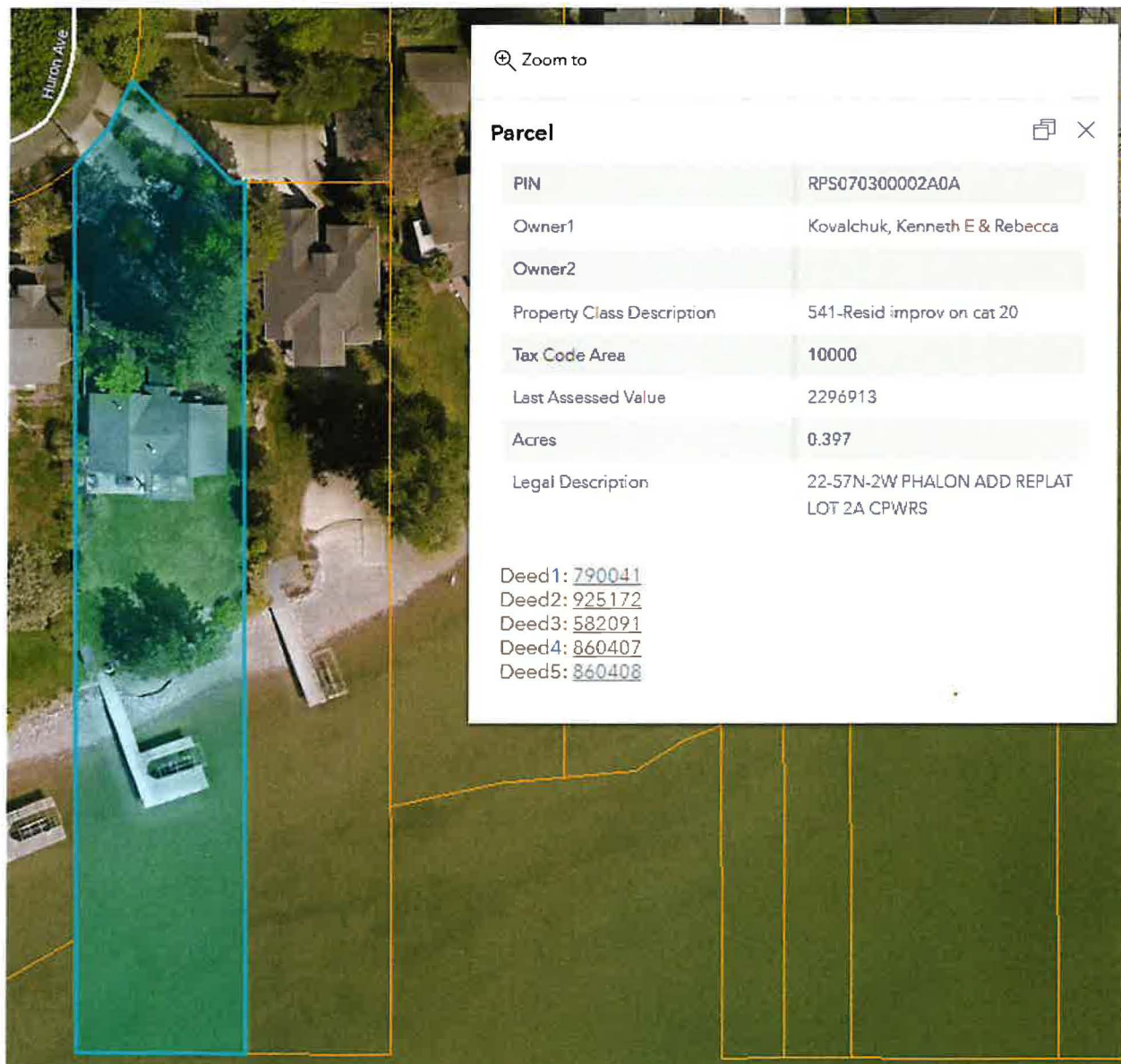
Field Examiner's  Date 6/17/2024

Reviewer  Date 6/26/2024

Field Exam Map(s): 421 Lakeview Blvd, Sandpoint ID 83864. Lot 2A, Phalon Addition to Sandpoint Replat Subdivision.

7/2023 Google Earth imagery of property retrieved on 6/17/2024



Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 6/17/2024

Tax Parcel No. RPS070300002A0A

0.5HP DEEP WELL PUMP

A game changer to solve your water supply problems



33 ft
Electric Cord

VEVOR

LARGE FLOW & HIGH HEAD LIFT

Pump it strong and steady for all your needs



Ground Level

*Hose Not Included

Submersible Pump

Max. Flow:
28 GPM
(105L/min)

Max. Head:
167 ft
(51 m)

⚠ Warning: Running in pure water

DIVERTING WORKS: VEVOR 0.5 HP SUBMERSIBLE PUMP

STAINLESS STEEL CONSTRUCTION

Rust never stood a chance



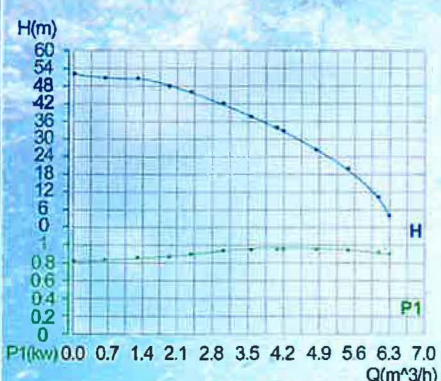
1-1/4" NPT Stainless Steel Discharge

ETL Certification

IP68 Waterproof

Stainless Steel Connection
No Worry About Breakage

PRODUCT SPECIFICATIONS



H(m)

Q(m³/h)

P1(kw)

VEVOR

Power: 0.5HP/0.37KW Max. Head: 167 ft
Voltage: 230V/60Hz Max. Flow: 28 GPM

1-1/4" NPT

28" / 71.2 cm

1.8" / 4.5 cm

4" / 10.2 cm

Bates, Luke

From: Rebecca Kovalchuk <rebeccakovalchuk@hotmail.com>
Sent: Monday, June 17, 2024 10:26 AM
To: Bates, Luke
Subject: Re: IDWR Permit 96-10454

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.

Hi again Luke!

The answers to questions 2 & 3 are as follows:

It is a 4" pvc intake pipe holding a submersible pump connected to a 1-1/4" pipe. The 4"pvc is saw cut that acts like a "screen" but not needed since the pump has a built-in 1/4" screen covering its entire intake. It is for irrigation only, it is not connected to the house.

Please let me know if you require further information.

Thank you,

Rebecca Kovalchuk

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Friday, June 14, 2024 5:17 PM
To: rebeccakovalchuk@hotmail.com <rebeccakovalchuk@hotmail.com>
Subject: IDWR Permit 96-10454

Rebecca & Kenneth Kovalchuk,

Good afternoon. I've been tasked with licensing review for Permit **96-10454**, which authorized development of Pend Oreille River water for Domestic use 1 home with up to ½ acre irrigation. I note your Statement of Completion was received by the Department on 5/31/2024.

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 groundwater well diversion system:

1. Do you have a copy of your river pump invoice which describes the pump make/model & horsepower (HP) of the pump? If not, there should 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?
2. What size PVC pipeline are you routing your intake pipeline with? From the schematic sketch you sent it appears I understand the pipeline system design but am uncertain regarding the pipeline size.
3. Is the intake pipe or intake foot valve screened? Your Permit required a ¼ inch fish screen which is required to be in compliance. If you're able to take a photograph of that fish screen that would be appreciated but I understand if it's completely submerged at this time of year. Your Statement of

Completion was designated as “no” fish screen which leads to additional information requirements for this condition of approval.

4. Please validate whether your home is service connected to the river water system or not; if you just use the river system for yard irrigation that is ok, but clarification will assist me in accurately depicting the water usage. I can use aerial imagery to clearly denote the irrigated areas in conjunction with your system sketch.
5. I note from your application for permit backfile that your home is served water from a municipal provider; may I ask what the name of your in-home water service provider is? I will add it to my report.

Thank you in advance for considering the questions detailed above.

Please do respond to this email within 7 days, NLT 6/21/2024, 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. I will be in office all but Wednesday next week due to the holiday on the 19th and will be happy to discuss any part of this process with you directly.

Thank you,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817



IDAHO DEPARTMENT OF
WATER RESOURCES

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

Bates, Luke

From: Rebecca Kovalchuk <rebeccakovalchuk@hotmail.com>
Sent: Monday, June 17, 2024 10:20 AM
To: Bates, Luke
Subject: Permit 96-10454

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.

Hi Luke!

Attached are pictures of our water pump information as per your request for #1.

4. Our River water system will be for yard irrigation.

5. City of Sandpoint is our water provider.

I will be sending question 2 and 3 answers shortly in a separate email.

Thanks,

RECEIVED

JUN 17 2024

IDWR / NORTH

Pump Screen

96-10454



TOUGH
SUBMERSIBLE PUMP
TYPE: 4SSM4/5-2

230 V~ 60 Hz 1~

0.5 HP

0.37 kW

3450 r/min

20 L/min-60 L/min-100 L/min

51 m - 39 m - 13 m

ENCLOSURE TYPE 3R

BOÎTIER DE TYPE 3R

WARNING: Risk Of Electric Shock-This Pump Has Not Been Investigated For Use In Swimming Pool Or Marine Areas; To Reduce The Risk Of Electric Shock: Connect To A Properly Grounded, Grounding Type Receptacle And Install Only A Circuit Protected By A Ground Fault Circuit Interrupter.

THERMALLY PROTECTED

CAUTION: To Reduce The Risk Of Electric Shock, Pull Plug Before Servicing This Pump And Install With Motor And All Electrical Components Above The Top Grade Level of Sump.

Manufacturer: Zhejiang Doyin Technology Co., Ltd.

Add: No.19, South of Songhang Road, Eastern New District, Wenling City, Taizhou, Zhejiang, China.

S/N: 30802694120088

Made in China

20 L/min = 5.3 gpm

60 L/min = 15.8 gpm

100 L/min = 26.4 gpm

51m = 167 Feet

39m = 130 Feet

13m = 42 Feet

RECEIVED

JUN 17 2024

IDWR / NORTH

96-10454