

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

A. GENERAL INFORMATION

Permit No: 95-17880

Exam Date: 06/26/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- N/A Irrigation of 5 acres or less
 - N/A Storage of up to 14.6 AF for stockwater purposes only
 - X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 - N/A Other < >
2. Current Owner: **MICHAEL WILKERSON AND MAGALIE WILKERSON**
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Kootenai County Tax Parcel information shows Michael Wilkerson as the owner of tax parcel RP50N04W369050. 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: C118402
4. **SOURCE:** Coeur D Alene Lake **TRIBUTARY:** Spokane 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
COEUR D ALENE LAKE			NE	SE	36	50N	04W	B.M.	KOOTENAI

Method of Determination: ArcMap aerial imagery.

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

Note: POD centroid changed from one side of small peninsula to other based on hand drawn field map provided by the Permit Holder with submission of Statement of Completion. Shift of POD doesn't change the legal description for the Right.

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	
50N	04W	36													X				
		Lot#													L4				

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Screened 4-inch intake with 1 hp submersible Flowise brand pump installed in Lake diverting to pressure tank.

___ 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 Model No.	Pump Make	Pump Serial No. or Discharge Size
Lake Pump	PENTEK	1	MTR4"; 230v 3ph	FLOWISE	18gpm SS pump end paired with motor 1 ¼" discharge size.

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** for 2 homes.
- Developed water system = diversion serves 1 home and 1 recreation vehicle.

Comments:

The Permit Holders provided detailed information related to the diversion works for the water system attached to their Statement of Completion form submission. The 1 hp Flowise pump paired with 1 hp Pentek motor are rated by the pump's manufacturer at 18 gpm = 0.04 cfs. This flow rate is consistent with Administrator's Memo – Application Processing No.22. I'm recommending the diversion rate & maximum diversion rate for licensing as Permit approved for **0.04 cfs**.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Maximum Diversion Volume =

- 1 home (bunkhouse) with ½ ac irrigation included = 1.2 af
- 1 recreation vehicle water use = 50 gpd per person x 3-person factor x 365 days = 54,750 gal annually / 325,850 gal per acre-feet = 0.17 af or 0.2 af considering Department rounding standards. I used a slightly larger factor due to rounding conventions using a 2.5-person value being greater than 0.1 af but just under the rounding requirement to increase the rate to 0.2 af. This evaluation ensures the Right holder doesn't enlarge their volume based on a rounding convention.
- Domestic annual volume = **1.4 af** = Maximum diversion volume.

G. PURPOSE OF USE

Irrigation ___N/A___ N # Stock ___N/A___ Domestic # of Homes: **1 and 1 recreation vehicle**

Other: < N/A >

Change in Purpose of Use? ☒ N

Method of Determination: Kootenai County tax lot data, information assessed on the Statement of Completion form, and Permit backfile information.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There are no overlapping water right concerns toward licensing this Permit. I used ArcMap to assign the Coeur D Alene Lake POD but moved the centroid from the east side of the Permit Holder's Lake front lot to the west side based on supporting documentation provided by the Permit Holders. This change in POD location doesn't result in a legal description change but rather clarifies which side of the Lake the water system diverts from. The diversion rate of 0.04 cfs is recommended for licensing.

The applicants' parcel shows a year-built date of 1985 according to Kootenai Co. tax parcel data and ArcMap imagery year 2023 along with Kootenai Co. GIS tax parcel maps clearly illustrate the small bunkhouse (home) and RV. I've assigned the domestic POU as the entire parcel as the Right authorizes up to ½ acre irrigation covered by domestic. The Application backfile asserts domestic use is for "1 RV and 1 Bunkhouse" indicating the RV may be the primary dwelling on the property; additionally, the Application designates the bunkhouse may be replaced by an updated residence, but aerial imagery doesn't support this remodel occurred in the development period.

I used aerial imagery, Google Earth software, and Kootenai County GIS tax parcel maps as I designated the domestic POU using ArcMap software. I've assigned a maximum diversion volume of **1.4 af** for 1 home with ½ acre irrigation and year-round RV usage that has a 50 gpd per person allowance considering sewer & water connections.

The permit holder asserts by declaration in step No. 6 on the Statement of Completion form that a fish is installed satisfying screening requirements related to condition X15. I revised condition X04 to accurately describe the domestic use associated with 1 home and 1 recreation vehicle vice the Permit conditional language stating 2 homes. All other conditions shall be carried to license approval.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

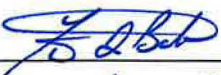
<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.4 AF
<u>Totals:</u>		0.04 CFS	1.4 AF

2. Recommended Amendments:

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

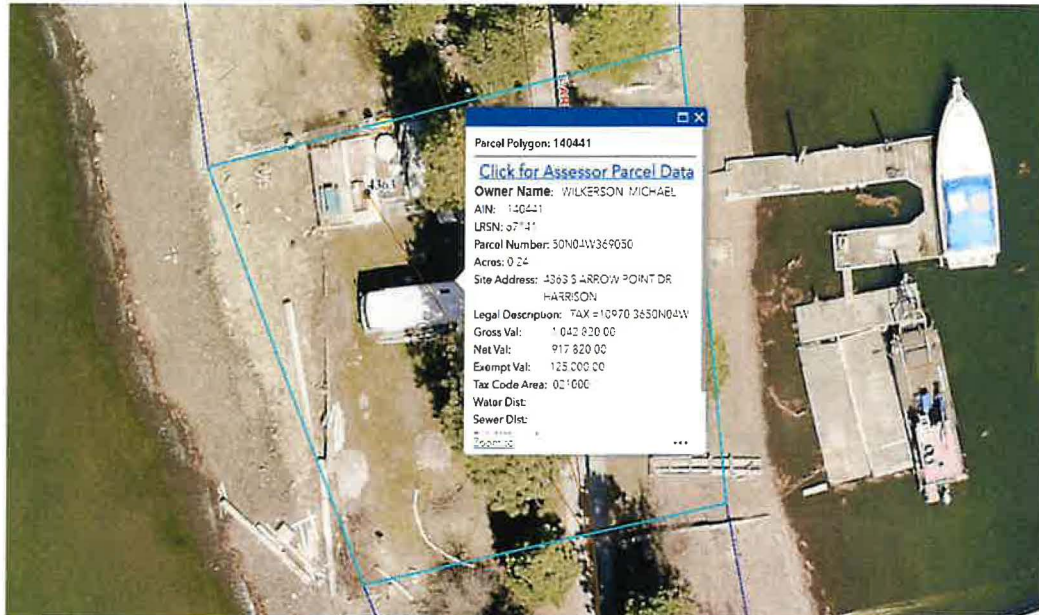
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other: < N/A >

J. AUTHENTICATION Luke Bates – Sr Water Resource AgentField Examiner's  Date 6/26/2024Reviewer  Date 6/26/2024

Field Exam Map(s): 4363 S Arrow Point Dr, Harrison ID 83833.

Kootenai County Tax Parcel map retrieved from <https://gis.kcgov.us/app/kcearth/> on 6/26/2024

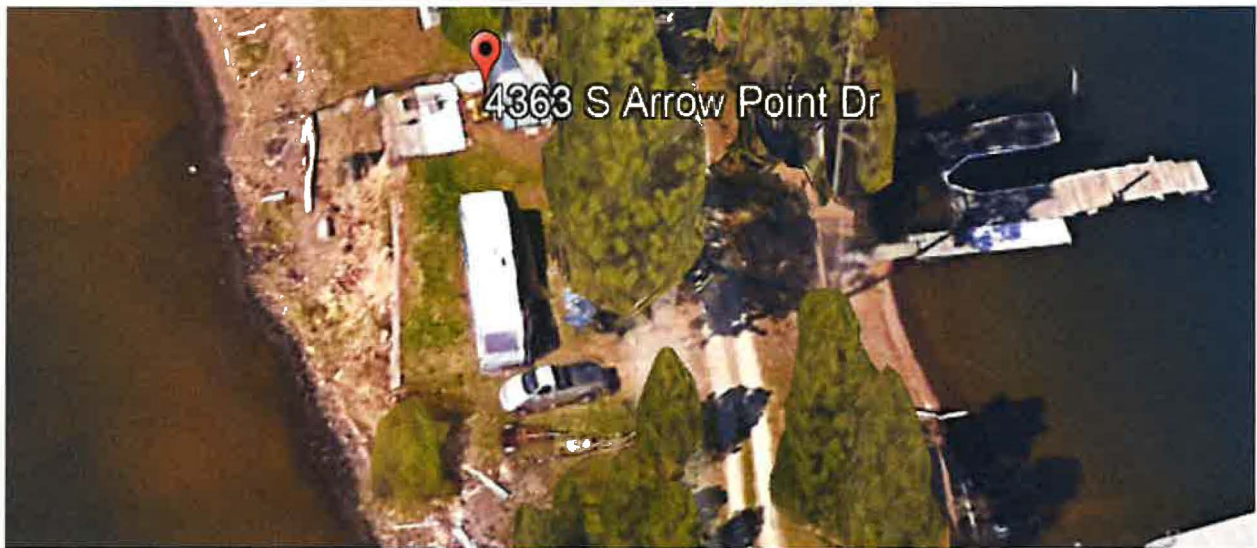


Tax Parcel No. RP50N04W369050

4/2023 imagery date - Google Earth imagery of parcel



Google Earth software current year imagery



Imagery retrieved on 6/26/2024