

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17862
Exam Date: 05/28/2024

1. Current Owner:
CAREN MCCUTCHEON FURBEYRE TRUST 1991 2011 S ABRAMS CT SPOKANE WA 99203-3753
2. Accompanied by: ERLE FURBEYRE
Phone No: (509) 701-4555
Address: 3524 W Blackcap Ln, Coeur d'Alene
Relationship to permit Holder: Owner/Trustee

3. **SOURCE:**
COEUR D ALENE LAKE

Tributary
SPOKANE RIVER

Method of Determination: ArcMap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-9208	Groundwater	Municipal	Decreed

Comments: 95-9208 is a decreed water right for municipal use from groundwater for Pilot Rock Development Assn Inc.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

COEUR D ALENE LAKE SE¼ NE¼, Sec. 3, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS; Intake pipelines with pump in lake is located at -116°49.84, 47°32.279.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	3	0.3			0.9													1.2
48N	04W	3	0.1 L1																0.1

Total Acres: 1.3

Method of Determination: Beneficial use field exam and ArcMap aerial imagery.

3.
 - ☒ 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

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Lake Pump Intake	Franklin Electric	1.5	2823008110	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
None						

2. Measurements: I was unable to take flow measurements at time of field examination; water lines buried and goes directly into a pressure tank prior to irrigation system. The pump manufacturer's curve demonstrating the pump capacity for a lift of 100 feet with a 1.5 hp pump is equal to 23 gpm or 0.05 cfs considering department rounding standards.

Measured Method: I acquired topographic elevation readings at the pump house to the lake level, adding an additional 20 ft due to the submersed pump in the lake. The total elevation gain equals 100 ft, and the pump performance curve for the 1.5 hp Franklin Electric pump motor equals 23 gpm or 0.05 cfs using department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.3 \text{ ac} \times 3.0 \text{ afa} = 3.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 14.6$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.9 \text{ af}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field examination. A field exam was performed on May 28, 2024 with the owner Erle Furbeyre to obtain current photographs of the POU to verify irrigation areas and diversion rate. Aerial imagery was used to prove there is irrigation occurring on the property and photographs enabled me to accurately trace out the active irrigation acreage, resulting in sufficient information to license this permit.

The permit was authorized for **0.05 CFS** diversion rate for the irrigation of 1.8 acres. During the exam, the applicant's pump house and lines going into the lake were observed. The lines ran from a submersible pump in Lake Coeur d'Alene up a cliff then the lines were buried and ran up the property to a pump house and into a pressure tank. The pump specification identifies a maximum discharge of 23 gpm or 0.05 cfs. The applicant did not irrigate to the top of the property. I calculated the irrigation to be 1.3 acres using ArcMap to draw out the irrigation. The NENE ¼ ¼ Gov't Lot 1 was reduced from 0.7 acres to 0.01 acres and the SENE ¼ ¼ was increased to 0.9 acres from 0.8 acres, according to ArcMap.

It is reasonable to assume once the diverted water from a submersible pump in the lake approximately 20 feet deep is restricted to two 1 ½ inch poly pipes routed uphill with a 1.5 HP pump which goes to a pressure tank and then to a sprinkler system, that the maximum discharge is greatly reduced. This mitigates concerns for enlargement of the permit due to over diverting. There are 12 stations for the sprinkler system.

The irrigation POU was traced out using Arcmap aerial imagery equaling 1.3 acres in size. The annual volume associated

with irrigating 1.3 acres = 3.9 AF, but as this is a surface water source there is no volume metrics applied to the face of the water right license. There are no overlap concerns for this water right. Condition 26A was removed.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	03/15 to 11/15	0.05 CFS	

Totals: 0.05 CFS

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

I. AUTHENTICATION

Tammy Alleman - Water Resource Agent

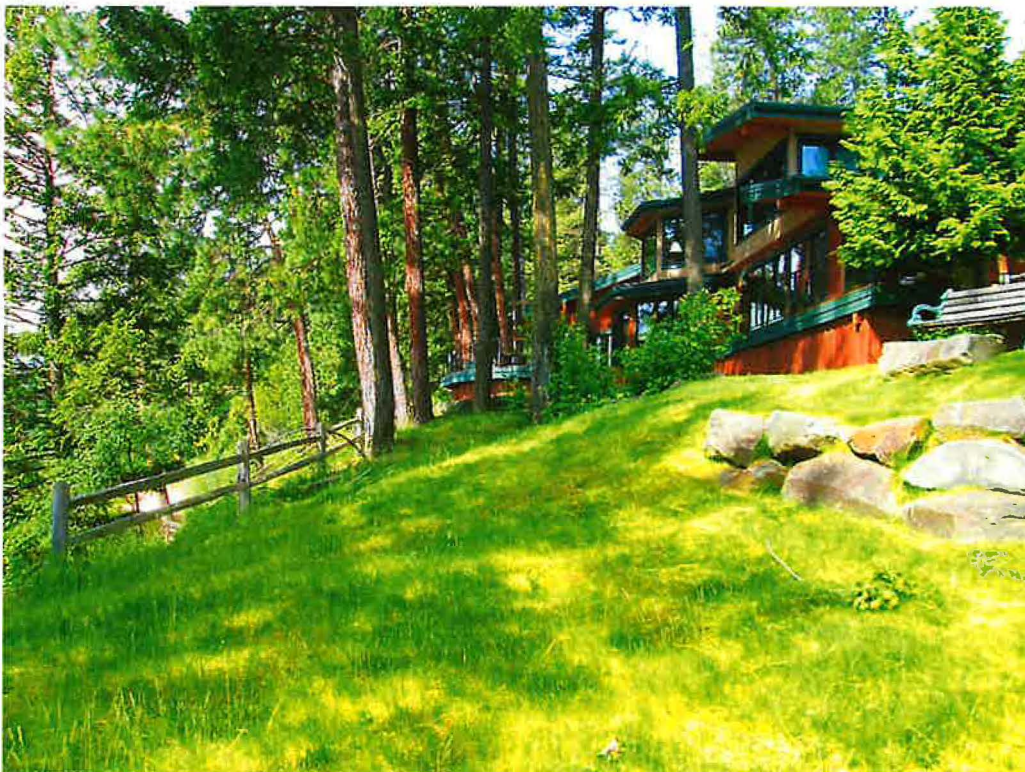
Field Examiner's Name Tammy Alle Date 1/27/2025

Reviewer Chase Belf Date 3/27/2025

95-17862



Intake Lines with lift uphill to pump house





Continued Lift to red pump house with pressure tank inside





Sprinkler system manifold





Landscaping









