

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-9825
Exam Date: 09/24/2025

1. Current Owner:
KOKANEE PARK HOA 25831 HWY 57 PRIEST LAKE ID 83856-8630
2. Accompanied by: Rick Horey
Phone No: 509-710-8938
Address: 226 N Kokanee Park Loop, Priest Lake ID 83856
Relationship to permit Holder: HOA's Representative
3. **SOURCE:**
PRIEST LAKE

Tributary
PRIEST RIVER

Method of Determination: ArcMap and DRG Layer.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
97-7291 & 97-7521	Ground Water (for both)	Municipal	License with Claim filed in CFRBA (Recommendation status)
97-4082	Priest Lake	Irrigation	Beneficial use Notice of Claim filed in CFRBA (Recommendation status)
97-4083	Ground Water	Domestic	Beneficial use Notice of Claim filed in CFRBA (Recommendation status)
97-9826	Ground Water	Domestic	Permit in process Licensing review

- 97-7291 & 97-7521 are owned by Outlet Water Assn, which is a municipal purveyor historically serving multiple subdivision(s) which include Kokanee Park Subdivision. There is direct overlap from the municipal provider which uses separate ground water source(s) in their water system than the water system infrastructure developed by Kokanee Park HOA; there is a single point pipeline connection valve which facilitates water service from the municipal water system to serve water to the Subdivision as needed to satisfy in-home water use(s), but there are external "BLUE" handled hydrants for municipal water usage that have potential to be used for irrigation under the municipal water delivery. I have added condition X35 to my license recommendation to mitigate overlapping water right concern limiting 97-7291, 97-7521, and 97-9825 to 5 acres irrigation within the Kokanee Park Subdivision.
- Notice of Claim 97-4082 was filed by the Applicant for historic Priest Lake water use from the same water system as developed within Kokanee Park Subdivision. Based on initial Department recommendation to the Courts of Idaho, the beneficial use is for a portion of the total 5.0 acres irrigation use which will supersede a part of this Permit's irrigation use. I have added condition 928 to mitigate overlap concerns and prevent stacking of water rights; 928 will diminish this Permit (Junior WR in priority) the same amount as the final Decree for 97-4082 designates.
- Notice of Claim 97-4083 was filed by the Applicant for historic ground water use from a separate water system which uses a ground water well source to serve in-home domestic use only by the Permit Holder. As there is no interconnection in water system between the groundwater source and this Permit's Lake water irrigation system there is no concern for overlap between 97-4083 & 97-9825.
- Permit 97-9826 is currently being recommended for licensing along with this Permit but is for a separate water system which uses a ground water well source to serve in-home domestic use only by the Permit Holder. As there is no interconnection in water system between the groundwater source and this Permit's Lake water irrigation system there is no concern for overlap between 97-9826 & 97-9825.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
97-4082	Ground Water	Irrigation	Beneficial use Notice of Claim filed in CFRBA (Recommendation status)

- Historic use Notice of Claim 97-4082 filed by the Applicant in the CFRBA uses the same Priest Lake diversion POD as this Permit. While still in a claim status, the claim has been recommended by IDWR toward court Decree, and I've recommended licensing this Permit with condition F06 to describe the shared POD between 97-4082 and 97-9826.

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

PRIEST LAKE L7 (NW¼ SE¼), Sec. 6, Twp 59N, Rge 04W, B.M. BONNER County

Method of Determination: GPS. POD is located at -116°54.1259, 48°29.4559

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	
59N	04W	6														5.0 L7			5.0

Total Acres: 5.0

Method of Determination: Beneficial use field exam, ArcMap aerial imagery, Google Earth, and Bonner County tax parcel maps.

- 3.
- X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
- X Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X 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
CENTRIFUGAL PUMP	BALDOR MOTOR	5	JPL1409T 36E774-190	BERKELEY	M7975 2-INCH DISCHARGE

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow Meter	Transit Time	GE PANAMETRIC	PT900	M06210067	CLAMP-ON	4/1/2025

2. Measurements: I performed a flow measurement for 11 minutes in an un-earthed section of 2-inch polypipe directly behind the lake pump house. The average diversion rate observed was 79.9 gpm or 0.18 cfs considering Department rounding standards.

E. FLOW CALCULATIONS X Additional Computation Sheets Attached

Measured Method: Department Panametric PT900 flow meter.

- Permit authorized diversion rate = 0.24 cfs based on Department standard rate for 12.0 acres as permitted.
- Flow meter evaluated average flow rate = 79.9 gpm or 0.18 cfs considering Department rounding standards.
- Recommended Maximum diversion rate for licensing purposes = **0.15 cfs**.
 - Total irrigated acreage validated during field exam and license review = 5.0 acres, and the Department authorizes 0.03 cfs per acre for up to 5.0 acres = 0.03 cfs x 5.0 ac = 0.15 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.0 \text{ ac} \times 3.0 \text{ afa} = 15.0 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.15 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 63.7 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{15.0 \text{ af}}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

I conducted the beneficial use field examination on 9/24/2025 with the Permit Holder's representative, Rick Horey, which showed Priest Lake water being diverted for irrigation water use. At the POD, a 5 hp centrifugal pump with 2-inch flexible pipe screened intake is installed along the lake frontage with a 2-inch poly pipe main pipeline conveying water from the POD to POU. I collected photographs of the diverting works which include a Berkeley brand centrifugal pump and paired with a Baldor brand motor. I captured flow measurements using the Department's GE PT900 Panametric flow meter during the exam.

Initially I attempted to get 5-gallon bucket measurements from irrigation riser pipe w/hydrants, but flow was restricted which severely limited pump capacity and inaccurate measurements. During the exam just prior to initiating flowmeter measurements a group of homeowners on site went through the subdivision and opened irrigation hydrants to ensure the diverting pump was achieving maximum capacity. The flow measurement validated that the 5-hp pump can produce 80 gpm which is slightly larger than the recommended 0.15 cfs (67 gpm). Due to the 80 gpm being accomplished with ALL the hydrants for 36 residences being opened simultaneously during the flow measurement, it is reasonable that during daily operation not all residents are irrigated at the same time which will result in a lower diversion rate requirement. I've recommended the **0.15 cfs** based on Department standard allowances for the 5.0 acres of observed irrigation acreage.

The 2-inch main water conveyance pipeline routes along the roadway(s) throughout the subdivision and have lateral runs which serve a couple or more parcels each with dedicated "RED" handled irrigation risers to hose and portable sprinklers or pressurized irrigation systems for a few of the parcels. It's important to note that the irrigation system is completely separate from the subdivision's groundwater domestic use system which incorporates "BLUE" handled hydrants and there is no cross contamination or use between the systems.

I relied on Bonner County tax parcel maps, Google Earth, and ArcMap aerial imagery prior to the exam to review visible irrigation areas and pinpoint treed areas that were questionable; during the exam I walked the subdivision and validated questionable acreage to firm up the irrigation Place of Use, which was accurately traced out during licensing review using ArcMap aerial imagery and equaling 5.0 acres in total. Irrigation was very manicured and photographs represent only a few

of the parcels to serve as examples for the entire subdivision. The annual volume and maximum diversion volume recommended for licensing is 5.0 ac x 3.0 afa = **15.0 af**; the diverting pump is capable of producing this volume throughout the irrigation season of use.

During licensing review, I removed condition 029 based on compliance by the Permit Holder with a fish screen installed on the intake pipe in the lake. I replaced condition R62 (>5 ac irrigation) with condition R66 to accurately describe irrigation requirements for 5.0 acres or less. I've added conditions F06, 928, and X35 based on discussions documented on PG1 and PG2 in this report. All other conditions on the Permit are being carried forward to the License recommendation. Aside from overlap discussed on PG1 and PG2 of this report, there are no additional overlapping water right concerns toward licensing Permit 97-9825.

Have conditions of permit approval been met? X Yes No

H. 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	0.15 CFS	15.0 AF

Totals: 0.15 CFS 15.0 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

I. AUTHENTICATION

Luke Bates – Sr Water Resource Agent

Field Examiner's Name J. O. P. Date 11/04/2025

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Attachment to Field Exam
97-9825

This map depicts the IRRIGATION system diagram.

04W

59N



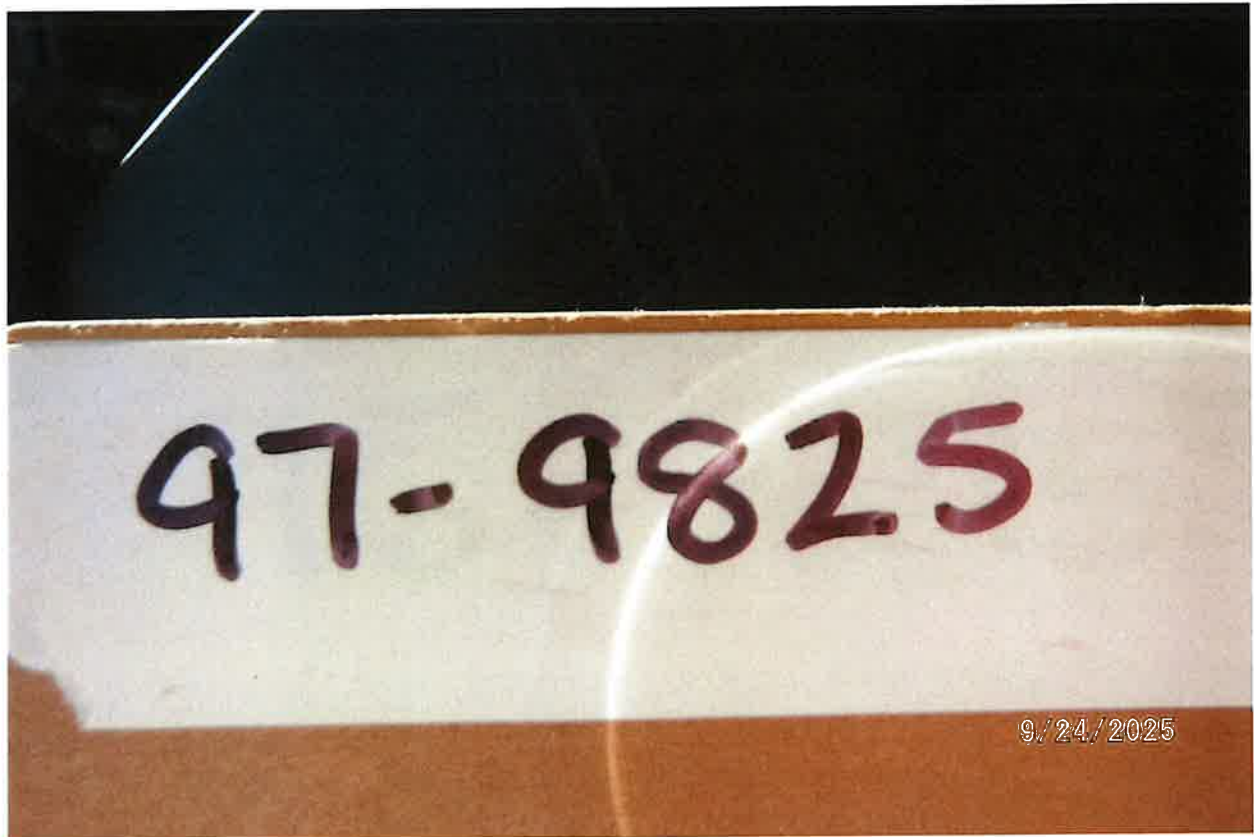
0 0.04 0.08 0.16 Miles

- Place Of Use Boundary
- Point of Diversion
- Taxlots
- Townships
- PLS Sections
- Quarter Quarters



Flow Measurement Beneficial Use Field Exam 97-9825

Date/Time 9/24/2025	Velocity ft/s	Volume Gallons/min	Fwd Totalizer Fwd Gallons	Error
12:09:00	7.3974	77.3692	0	Error:0
12:10:00	7.5878	79.3612	0	Error:0
12:11:00	7.6232	79.7311	69.8136	Error:0
12:12:00	7.6354	79.8588	149.5933	Error:0
12:13:00	7.6044	79.5351	229.4968	Error:0
12:14:00	7.629	79.7919	309.6186	Error:0
12:15:00	7.6678	80.1975	389.4608	Error:0
12:16:00	7.65	80.0113	469.4239	Error:0
12:17:00	7.6386	79.892	549.169	Error:0
12:18:00	7.6273	79.7743	629.1181	Error:0
12:19:00	7.6489	79.9997	709.0892	Error:0
Average Velocity	7.61	BERKELY PUMP 5 HP S/N M7975 CENTRIFUGAL PUMP		
Max Velocity	7.6678			
Min Velocity	7.3974			
Average GPM	79.6	Max CFS0.180		
Max GPM	80.2			
Min GPM	77.4			
Beginning Reading			69.8136	
Ending Reading			709.0892	
Difference in Readings			639.276	
Difference / 10 readings			79.909 GPM	
Conversion from GPM to CFS (/448.83)			0.18 CFS	
Measure Device: GE PT900 S/N M06210067			Last Calibration Date: 4/1/2025	



BENEFICIAL USE FIELD EXAM DATE 9/24/2025

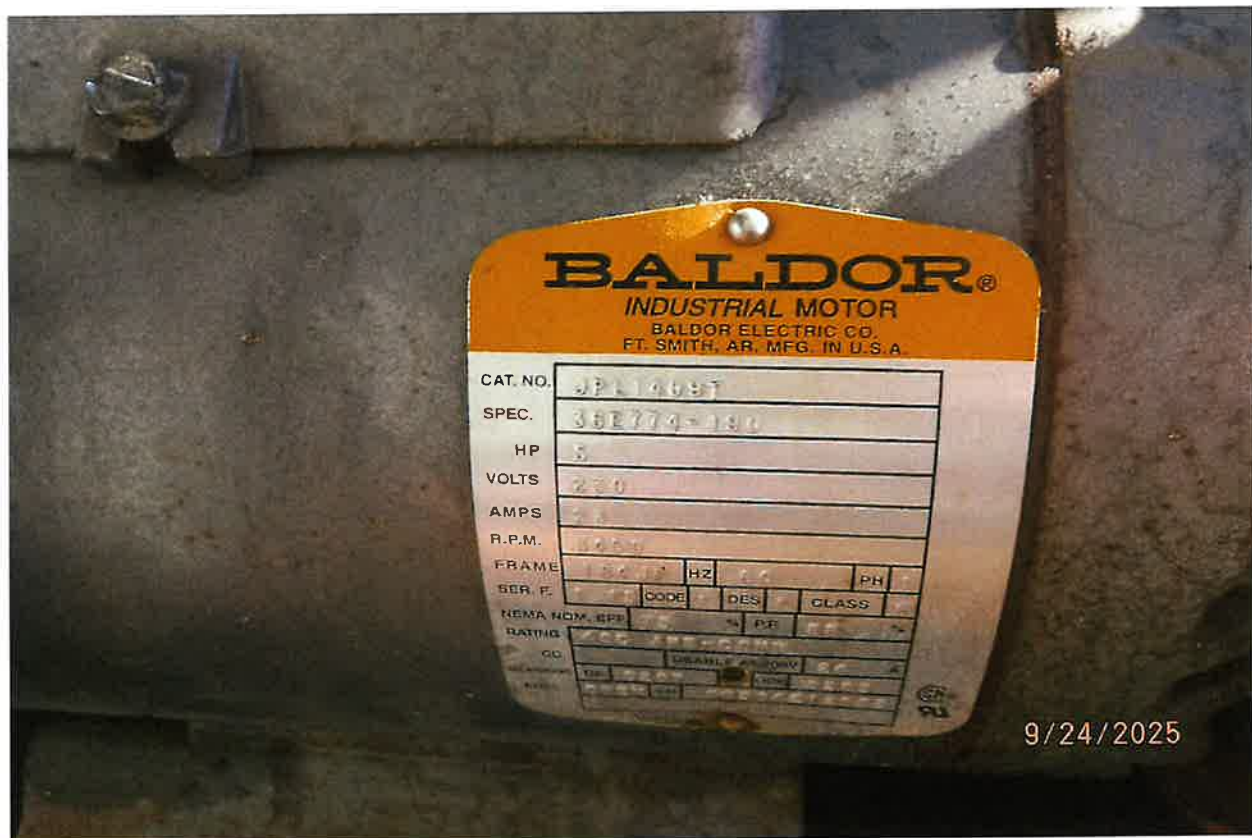


POD – 2-INCH FLEXIBLE SCREENED INTAKE PIPE IN PRIEST LAKE



POD – FLEXIBLE INTAKE PIPE TO SHORE FRONT PUMP STATION







DIVERTING WORKS – 5 HP BERKELEY PUMP, S/N M7975 WITH 2-INCH DISCHARGE



PUMP CAPACITY FLOW MEASUREMENT TAKEN NEAR PUMP STATION
ATTACHING GE PT900 FLOWMETER TO SECTION OF 2-INCH MAIN PIPELINE



EXAMPLE OF FLOW MEASUREMENT CAPTURED FOR 11 MINUTE TIMED EVENT
ILLUSTRATES 80.1 GPM PUMP CAPACITY



IRRIGATION POU – EXAMPLE OF RED IRRIGATION RISER W/HYDRANT TO HOSE
AND SPRINKLER FOR SMALL LOT IRRIGATION



IRRIGATION POU – LAKE FRONT LOTS IRRIGATION, WHICH INCLUDES AROUND HOMES



IRRIGATION POU



IRRIGATION POU – EXAMPLE OF SMALL LOT IRRIGATION PRACTICES



IRRIGATION POU



IRRIGATION POU



IRRIGATION POU



IRRIGATION POU



IRRIGATION POU



IRRIGATION POU



ILLUSTRATION OF FLOWMETER INSTALLATION USED TO MEASURE PUMP
CAPACITY AT TIME OF FIELD EXAM