

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

**A. GENERAL INFORMATION**Exam Date: 2/28/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. X Irrigation of 5 acres or less
- b.      Storage of up to 14.6 AF for stockwater purposes only
- c.      Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d.      Other <     >

2. Current Owner: Ronald Abaro
- Owner of Record Correct?      N
- Address of Record Correct?      N
- If No Explain: N/A

3. Beneficial Use Fees have been paid: X Y N Receipt No: C117755

4. Source: Lake Pend Oreille Tributary: Pend Oreille River

Method of Determination: GIS, Tax Parcel Data, and the permit holders Statement of Completion for Proof of Beneficial Use.

Change in Source:      Y X N

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:      No Overlap

| Water Right No. | Source            | Purpose of Use | Basis   |
|-----------------|-------------------|----------------|---------|
| 96-7115         | Lake Pend Oreille | Domestic       | License |
|                 |                   |                |         |

Comments: Water right 96-7115 overlaps the proposed place of use according to Department records. However, the water right backfile indicates the right does not overlap.

2. Other water rights with the same point of diversion: X No Overlap

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| N/A             |        |                |       |
|                 |        |                |       |

Comments: N/A

**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 | 3         |   | SW | NW | 25   | 57N  | 02W  | B.M. | Bonner |
|                   |           |   |    |    |      |      |      | B.M. |        |
|                   |           |   |    |    |      |      |      | B.M. |        |

Method of Determination: GIS and Tax Parcel Data.

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

## 2. Place of Use:

| 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 | 25    |    |    |    |    |    |    | 0.1 |    |    |    |    |    |    |    |    |    | 0.1    |
|               |     | Lot # |    |    |    |    |    |    | 3   |    |    |    |    |    |    |    |    |    |        |
| Total Acres = |     |       |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    | 0.1    |

Method of Determination: GIS, Tax Parcel Data, and 2023 Bonner County Aerial Imagery.Change in POU? Y X N Amendment Required? Y X NDelivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable:

X Aerial Photo Attached (required for irrigation of 10+ acres).Photo of Diversion and System Attached

| 3. Diversion Id No.* | Motor Make | HP | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|----------------------|------------|----|------------------|-----------|-----------------------------------|
| N/A                  |            |    |                  |           |                                   |

\*Code to correspond with No. on map and aerial photo

## D. FLOW MEASUREMENTS

| 1. Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|--------------------------|------|------|-----------|------------|------|-------------|
| N/A                      |      |      |           |            |      |             |
|                          |      |      |           |            |      |             |

2. Measurement Comments: The permit holder did not provide a pump horsepower. Therefore, a diversion rate calculation is not possible.

## E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. According to Administrative Processing Memo #17 the standard diversion rate/acre for the irrigation of 5 acres or less is 0.03 cfs/acre. The permit authorized a 0.03 cfs diversion rate. I am recommending a 0.01 cfs diversion rate.

(0.1 acres) \* (0.03 cfs/acre) = 0.003 cfs or 0.01 cfs rounded.

## F. VOLUME CALCULATIONS

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.1 \text{ acres}) \times (3.0 \text{ af/acre}) = 0.3 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.01 \text{ cfs}) \times (214 \text{ days}) \times (1.9835 \text{ af/day}) = 4.2 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 0.3 \text{ af}$$

## G. PURPOSE OF USE

Irrigation X Y N # Stock N/A Domestic # of Homes N/AChange in Purpose of Use? Y X NMethod of Determination: GIS, Tax Parcel Data, 2023 Bonner County Aerial Imagery.

**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 2008. The permit authorized the irrigation of 0.4 acres. 2023 Bonner County Aerial Imagery indicated 0.1 acres of irrigation occurred within the development period. Condition 029 on the permit requires the permit holder to install a fish screen meeting the fish screening and passage requirements of the Idaho Department of Fish and Game. The permit holder confirmed on their Statement of Completion for Proof of Beneficial Use a fish screen was installed. Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Processing Memo #17 were used to determine a diversion rate recommendation. All of the conditions of the permit approval were met and developed of beneficial use was confirmed within authorization on the permit. Therefore, I am recommending a 0.01 cfs diversion rate and 0.3 af diversion volume.

Conditions X60, X31, and 004 should remain on the license. Condition X31 should be updated to match the recommended diversion rate and volume. Condition 029 should be removed because the permit holder installed a fish screen meeting the fish screening and passage requirements of the Idaho Department of Fish and Game.

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

**I. RECOMMENDATIONS****1. Recommended Amounts:**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| Irrigation            | 04/01-10/31          | 0.01 CFS              | 0.3 AF               |
|                       | <u>Totals:</u>       | 0.01 CFS              | 0.3 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: < >

**J. AUTHENTICATION**

**Field Examiner: Skyler Cheever – Water Resource Agent**

Field Examiner's  Date 2/28/2024

Reviewer  Date 4/15/24

Field Exam Map

Map showing the authorized point of diversion (yellow point) and irrigated place of use (orange outline).



2023 Bonner County Aerial Imagery

Imagery confirmed 0.1 acres of irrigation occurred within the development period of the permit.

### 96-14665 Irrigation Map



2/28/2024

#### Road Centerlines

- Primary
- Secondary
- Local; Ramp

#### Parcels

- World Boundaries and Places
- World Imagery
- Low Resolution 15m Imagery

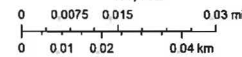
High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

30cm Resolution Metadata

1:1,102



Esri, HERE, Garmin, (c) OpenStreetMap