

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

A. GENERAL INFORMATION

Permit No: 96-9807

Exam Date: 3/4/24

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. N/A Storage of up to 14.6 AF for stockwater purposes only
 c. N/A 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:

ALEX MURRAY 135 HUBBARD LN SAGLE ID 83860-9795

Owner of Record Correct? X Y ___ NAddress of Record Correct? X Y ___ N

If No Explain:

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C1178244. **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
96-7113	SPRING	MUNICIPAL	CLAIM

Comments: Claim from the License 96-7113 has spring tributary to Murphy Creek as the source for municipal use. This water right is for irrigation from Pend Orielle River, which is a different source. The POU does overlap this right's irrigation POU, but they are not from the same source or do they have the same use. There are no overlap concerns with this water right.

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	L3		SE	NW	3	56N	02W	B.M.	BONNER

Method of Determination: GIS and Tax Parcel Data.

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

PLACE OF USE: IRRIGATION

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	02W	3								1.0	1.0								2.0
		Lot #																	
Total Acres =																			2.0

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N**3. Diversion System Information:**

Description: Screened foot valve with 1 inch intake hose attached to a ½ HP pump with a garden hose & sprinkler which is moved around the yard.

 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 Serial No.	Pump Make	Pump Serial No. or Discharge Size
PUMP	UNKNOWN	1/2			

*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
NONE						

2. Measurements: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Measurement = 2.0 ac x 0.03 cfs = 0.06 cfs based on department rounding standards, however the pump discharge is approximately 16 gpm (according to ½ hp pump specs) which equates to what was allowed on the permit of 0.03 cfs.

Comments: The permit identified use of a portable pump used with hose and hand moved sprinklers for irrigation of the POU. Due to flow measurements not being required, I'm recommending a diversion rate based on Administrative Memo – Application Processing No. 17, which authorizes up to 0.03 cfs per acre for small acreage irrigation. Generally, portable pumps used to divert water from a lake or river are slightly oversized regarding diversion capacity; this is required to achieve elevation lift while maintaining adequate head pressure to water using hose and sprinklers. Normally, these portable irrigation pumps are capable of producing **0.03 cfs** or 16.0 gpm, which I'm recommending for licensing purposes.

The permit identified use of a portable pump used with hose and hand moved sprinklers for irrigation of the POU. Due to flow measurements not being required, I'm recommending a diversion rate the permit was approved for, which authorizes 0.03 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \text{ ac} \times 3.0 \text{ afa} = 6 \text{ af}$$

I.R.

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 12.7 \text{ af}$$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6 \text{ af}$

2. Volume Calculations for Other Uses: Surface water (river) source, no volume metrics shall be applied to face of license.

G. PURPOSE OF USE

Irrigation Y N # Stock N/A Domestic # of Homes N/A

Other: < >

Change in Purpose of Use? X N

Method of Determination: Taxlot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There are no overlapping water right concerns toward licensing this permit. Review of aerial imagery from Bonner County GIS maps, Google Earth, and ArcMap software clearly illustrates the irrigated area; there is an apparent shift/drift in aerial imagery which I've considered when designating the irrigation POU shape in AdHoc. Irrigation is for lawn & minor landscape on the property.

IDAPA 37.03.02 Beneficial Use Examination Rules designate irrigation using this surface water river source is exempt from volume reporting requirements. There is no maximum diversion volume or annual diversion volume recommended for licensing. Condition R66 provides annual volume limitations for the recommended irrigation beneficial use.

The permit holder asserts by phone conversation that a fish screen is installed with a back flush, satisfying screening requirements.

I removed conditions 26A & 029 from the permit during licensing review and 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>
IRRIGATION	04/01 to 10/31	0.03 CFS	6 AF

Totals: 0.03 CFS 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

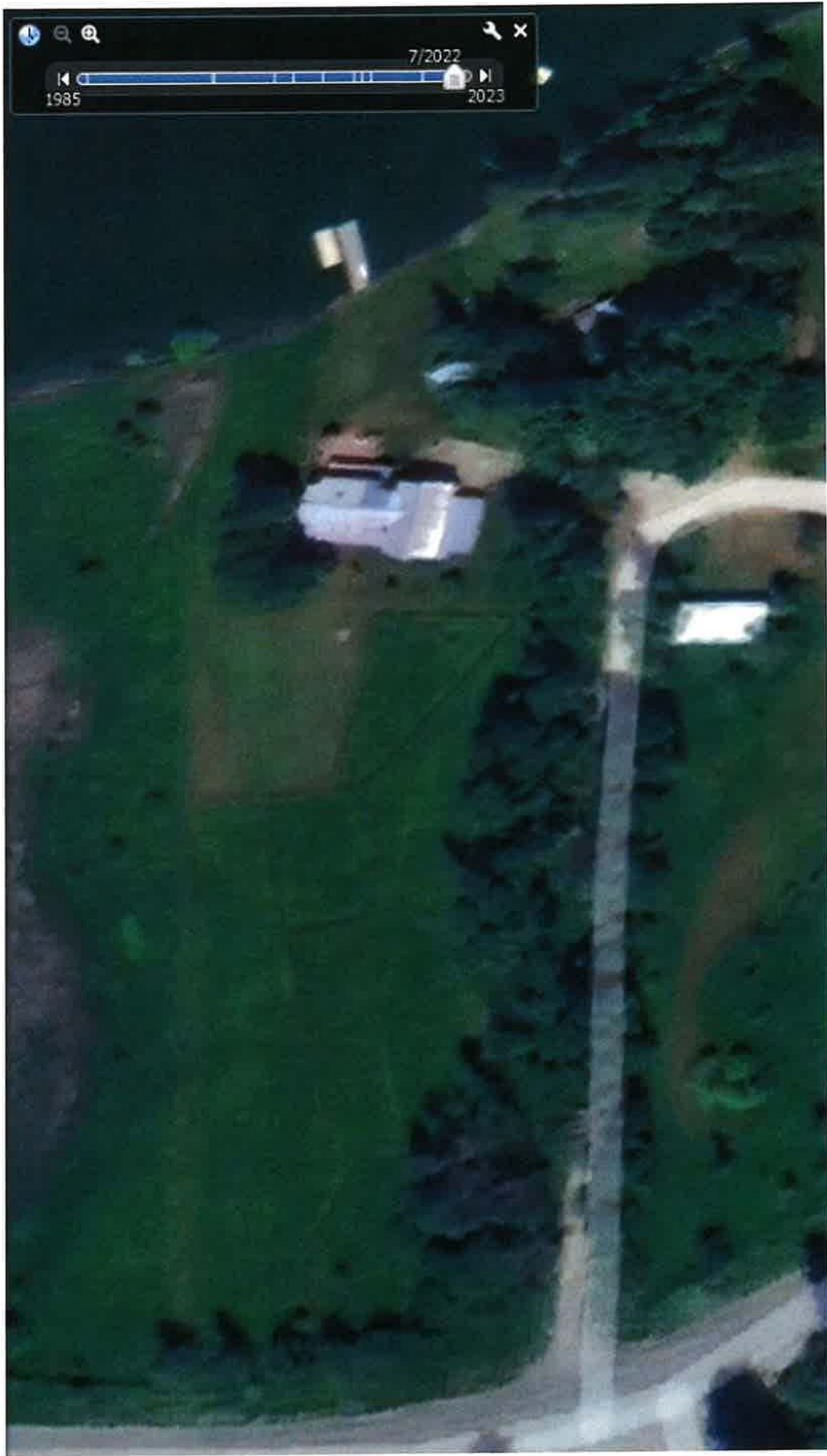
Other: < >

I. AUTHENTICATION

Tammy Alleman -

Field Examiner's Name Sammy Allen Date 5/4/24

Reviewer _____ Date _____





Alleman, Tammy

From: Alleman, Tammy
Sent: Thursday, February 29, 2024 2:09 PM
To: amurrayipp@gmail.com
Subject: In-Office Field Exam

Good afternoon Alex,

I have been given your Water Right to do an In-Office Field Exam. On the original application you listed that you have a 1 inch intake hose with a ½ HP pump. I am just checking to see if that is what you installed. If not, what is the HP of the pump? If you have an irrigation system, do you know how many stations you have? If you have any pictures of the pump or your irrigation system, I could enter it into the file for licensing. It is not required but if you have anything I can add, it just helps. If you have any questions or concerns, I can be reached at (208) 762-2809.

Thank you,



Tammy Alleman | Water Right Agent
Idaho Department of Water Resources
Northern Regional Office
7600 N Mineral Drive, Suite 100
Coeur d'Alene, ID 83815-7763
Phone: (208) 762-2800