

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

A. GENERAL INFORMATIONExam Date: 4/2/2024

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: Joe and Paula Brown
- 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: C117975
4. Source: Tributary:
- Groundwater N/A

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
Various	Groundwater, Boise River	Municipal.	Decreed

Comments: Various municipal water rights overlap the permitted place of use. This permit authorizes domestic use and the irrigation of one acre. Therefore, it is likely the property isn't hooked into or uses municipal water and there is no reason to limit permit and the various municipal rights when combined.

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
Groundwater			NE	SE	7	02N	02E	B.M.	Ada
								B.M.	
								B.M.	

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

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

2. Place of Use: Domestic, 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	
02N	02E	7													0.8, D				0.8
		Lot #																	
Total Acres =																			0.8

Method of Determination: GIS, Tax Parcel Data, and 2023 Google Earth Imagery.Change in POU? Y X N Amendment Required? Y X NY Delivery System Diagram Attached (required). Indicate all major components and distances between components.X Aerial Photo indicating the location of the POD, Irrigated POU and Domestic POU.X Aerial Photo Attached (required for irrigation of 10+ acres).Y Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0012947					

*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

Y 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. According to Administrative Processing Memo #22 the standard diversion rate for a single-family home is 0.04 cfs. I am recommending a diversion rate of 0.04 cfs for domestic use and 0.02 cfs for irrigation or 0.06 cfs total.

(0.8 acres) * (0.03 cfs/acre) = 0.024 or 0.02 cfs rounded

Administrative Processing Memo #17 Calculation = 0.02 cfs

Total Recommended Diversion Rate = 0.06 cfs

Permit allowed = 0.07 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.8 \text{ acres}) \times (4.5 \text{ af/acre}) = 3.6 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.02 \text{ cfs}) \times (260 \text{ days}) \times (1.9835 \text{ af/day}) = 10.3 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.6 \text{ af}$$

2. Volume Calculations for Other Uses: According to Administrative Processing Memo #22 the standard volume for a single domestic use is normally 0.6 af for in house use and 0.6 af for up to 1/2 acre of yard irrigation. However, the 1/2 acre of yard irrigation is included under the irrigation portion of the permit. Therefore, I am recommending a volume of 0.6 af for in house domestic use and 3.6 af for irrigation or 4.2 af total.

G. PURPOSE OF USEIrrigation X Y N # Stock N/A Domestic # of Homes 1 Change in Purpose of Use? Y X N Method of Determination: GIS, Tax Parcel Data, 2023 Google Earth Imagery, and the permit holders Statement of Completion for Proof of Beneficial Use.**H. NARRATIVE/REMARKS/COMMENTS**

This permit qualifies for an in-office examination. According to Tax Parcel Data the property was developed in 1994. The permit authorized domestic in house use for one home and the irrigation of 1 acre diverting from groundwater. According to 2023 Google Earth Imagery 0.8 acres of irrigation was confirmed within the development period. The Tax Parcel boundary and visual property boundary were inconsistent. The visual property boundary was used to identify the irrigated place of use. The place of use for domestic use was updated from specifically outlining the home to the entire parcel boundary because domestic use could occur anywhere within the Tax Parcel, including the 1 home on the property.

Since the permit holder did not provide a pump horsepower a diversion rate calculation was not possible. The standards set in Administrative Processing Memo's #17 and #22 were used to determine diversion rate and volume recommendations. All of the conditions have been met and development of permitted beneficial uses were confirmed within authorization on the permit. Therefore, I am recommending a 0.06 cfs total diversion rate and 4.2 af total volume.

Conditions X59 should remain on the license. Conditions WB5 should be changed to 132 because the ½ acre of yard irrigation normally included under domestic use is still included under the irrigation portion of the license. Condition R69 should be changed to X31 because irrigation is less than 1 acre. Condition 121 should be changed to 103 as standard with licensing. Condition 26A should be removed as standard with licensing.

Have conditions of permit approval been met? X Yes No**I. RECOMMENDATIONS**

1. Recommended Amounts:

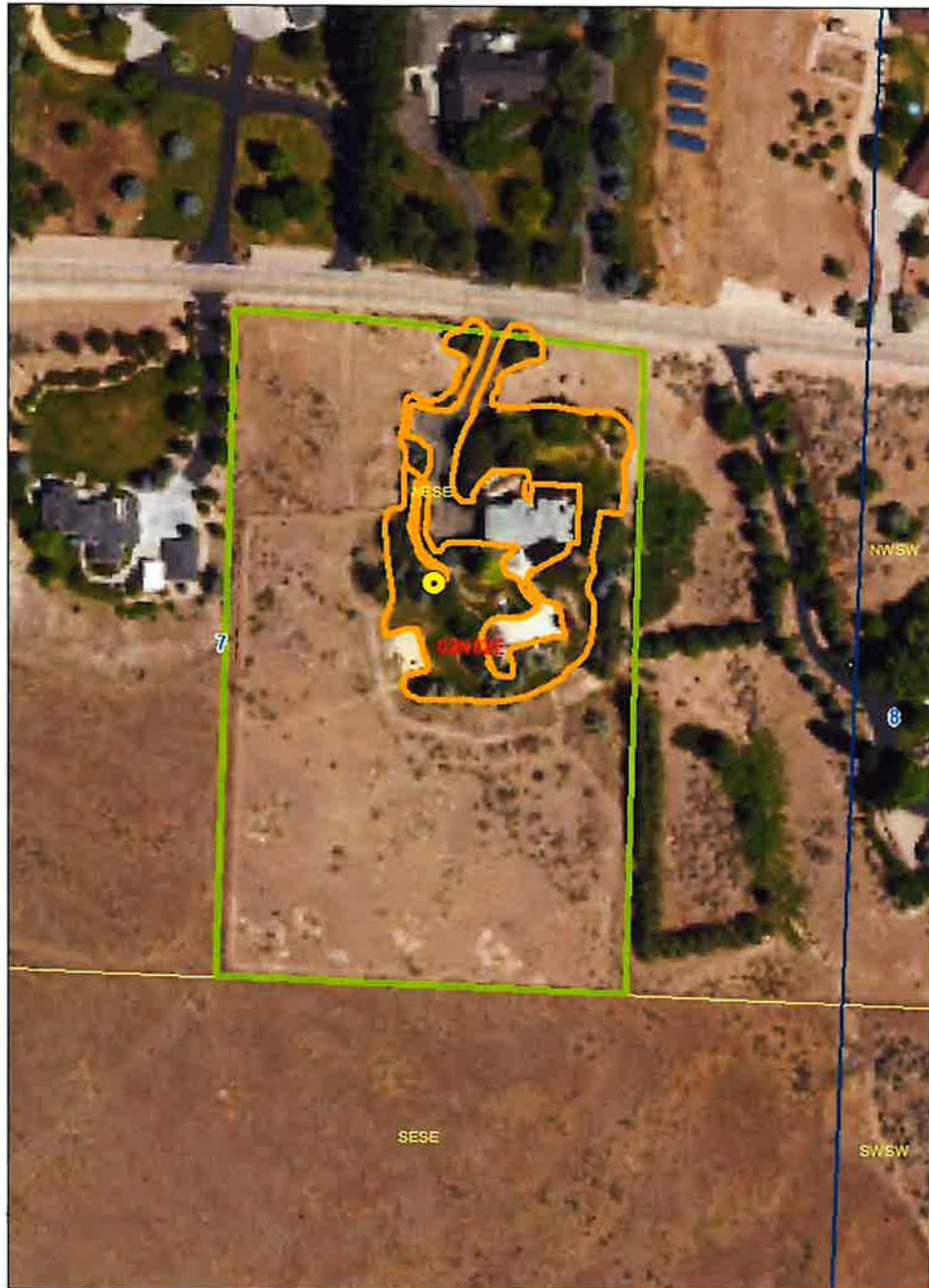
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01-11/15	0.02 CFS	3.6 AF
Domestic	01/01-12/31	0.04 CFS	0.6 AF
	<u>Totals:</u>	0.06 CFS	4.2 AF

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**J. AUTHENTICATION**Field Examiner: **Skyler Cheever – Water Resource Agent**Field Examiner's  Date 4/2/2024Reviewer  Date 4/19/24

Field Exam Map

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



2023 Google Earth Aerial Imagery

Imagery indicated 0.8 acres of irrigation and one home was developed within the development period.

