

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34243
Exam Date: 05/15/2025

1. Current Owner:
DOUGLAS M POGUE 6954 W HOLLILYNN DR BOISE ID 83709-7268 AND/OR
PAMELA J POGUE 6954 W HOLLILYNN DR BOISE ID 83709-7268
2. Accompanied by: Douglas Pogue
Phone No: (208) 631-9278
Address: 6954 W Hollilynn Dr Boise ID 83709-7268
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Beneficial use exam and Department Well Driller Reports.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
63-9366	Ground Water	Irrigation/domestic	Decreed
63-34143	Ground Water	Irrigation	License
63-32827	Ground Water	Irrigation	License
63-31097	Ground Water	Domestic	Decreed
63-12592	Ground Water	Irrigation	License
63-11563	Ground Water	Irrigation	License

Comments: Same quarter-quarter but different parcels.

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

Water Right No.	Source	Purpose of Use	Basis
63-9366	Ground Water	Irrigation/domestic	Decreed
63-34143	Ground Water	Irrigation	License
63-32827	Ground Water	Irrigation	License
63-31097	Ground Water	Domestic	Decreed
63-11563	Ground Water	Irrigation	License

Comments: Same quarter-quarter but different parcels.

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

GROUND WATER L3 (NW¼ SW¼), Sec. 7, Twp 02N, Rge 02E, B.M. ADA County

Method of Determination: Well permit records, field examination, and aerial imagery. The point of diversions legal descriptions are correct and match the actual on-th-ground point of diversion.

PLACE OF USE: DOMESTIC

Twp	Rng	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										X L3							

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	
02N	02E	7										1.0 L3							1.0

Total Acres: 1.0

PLACE OF USE: RECREATION

Twp	Rng	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										X L3							

Method of Determination: Aerial Imagery, ArcMap Tools, Tax Parcel layers, and observations during field exam.

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
D0001260	Unknown	5	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

The delivery system from the well was completely underground, therefore a direct measurement could not be taken. A theoretical diversion rate was calculated based on the horsepower provided by the permit holder.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

A theoretical diversion rate was calculated based on horsepower to determine if the well could produce the rate requested on the permit.

Theoretical Method – Given 5 hp submersible pump set at 270 feet with a lift of 260 feet and estimated 80% efficiency.

$$Q = (8.8) \times (5 \text{ hp}) \times 80\% / [(260 \text{ ft}) + (80 \text{ psi} \times 2.31)] = 0.08 \text{ cfs (36 gpm)}$$

Recommendation Standard: Irrigation Standard Rate - 0.03 cfs = 0.03 cfs/acre x 1.0 acres

Domestic Standard Rate – 0.04 cfs based on beneficial use standard

Recreation (Dust Abatement) Rate – 0.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \text{ acres} \times 4.5 \text{ af} = 4.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 15.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ af}$$

2. Volume Calculations for Other Uses:

Domestic use is 0.6 af per household without irrigation per application processing Memo 22.

Recreation: 2 uses per day for 30 minutes at 9 gpm for 5 days/week and 26 weeks/year

$$V_{Rec} = 2 \text{ uses/day} \times (9 \text{ gal/min} \times 30 \text{ min/day}) \times (5 \text{ days/wk} \times 26 \text{ wk/yr}) = 70,200 \text{ gpy} / 325,850 \text{ g/af} = 0.22 \text{ afa}$$

G. NARRATIVE/REMARKS/COMMENTS

On November 10, 2016, a permit was approved for 0.11 cfs to irrigate 1.5 acres and provide for domestic and recreational uses. The Proof of Beneficial use was received on September 23, 2021. The field exam was conducted on May 15, 2025, accompanied by the owner, Douglas Pogue.

The domestic system delivers water from a 8-inch well head, well number D000126, through a buried pipe to the home, a buried sprinkler irrigation system, and recreation area. The irrigated area consists of 11 zones which irrigates the lawn, landscaping, and garden/orchard areas around the home with a combination of fixed set impact sprinklers, rotor sprinklers, Rainbird 5000, and drip lines. The permit owner did not know the number of heads per zone. The recreational area consists a dirt racetrack. There are three valves equipped with 1.5-inch diameter fire hose connections for dust abatement within the recreational area. Using tools in Google Earth and ArcGIS the irrigated area was calculated at one acre. Aerial imagery confirms the irrigation, domestic, and recreational uses were established during the development period of November 10, 2016 to September 23, 2021.

The well was drilled in 1998 to a depth of 333 feet and static water level of 210 feet. The permit holder was unable to provide pump brand or model or pump curves but was able to provide pump set and horsepower. The system is supplied by a 5 Hp submersible pump set at 270 feet. The permit holder stated the pumping pressure was 80 psi. Using the theoretical horsepower equation worksheet calculations were estimated using a pumping level of 260 feet with efficiencies between 70% and 80%. Given these parameters the pump is potentially capable of providing an irrigation rate of 0.07 to 0.08 cfs if operating between 70 to 80% efficiency. Due to the lack of pump specific information and uncertain operating pressure, I am recommending the standard rate for irrigation of 0.03 cfs with a volume of 4.5 af, the standard rate for a single residence domestic use of 0.04 cfs with a volume of 0.6 af, and a rate of 0.02 cfs for recreation with a volume 0.22 afa. I am recommending a total rate of 0.09 cfs with a volume of 5.3 afa.

Condition 046 was removed, since the well was drilled during the development period. Condition 26A was removed, as per Department standards. In accordance with Department standards, condition 121 was replaced with 103.

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>Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AFA
IRRIGATION	03/01 to 11/15	0.03 CFS	4.5 AFA
RECREATION	01/01 to 12/31	0.02 CFS	0.22 AFA
<u>Totals:</u>		0.09 CFS	5.3 AFA

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

Allen Bradbury - Water Resource Agent, Senior

Field Examiner's Name Allen Bradbury Date 10/2/25

Reviewer [Signature] Date 10/7/25

Delivery System Diagram

Water Right No. 63-34243 Pogue

- GW-Irrigation (0.03 cfs, 1.0 ac), Recreation (0.02 cfs), Domestic (0.04 cfs); Total Diversion Rate: 0.09 cfs



The USDA-FSAAerial Photography Field office asks to be credited in derived products.



Point of Diversion



Irrigation



Recreation



Domestic

0

0.02

0.04 Miles

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-34243 Pogue
 Reviewer: AB
 Date of Review: 5/15/2025

Pump Efficiency Est.	70%	75%	80%
P/D No.:	Well #1	Well #1	Well #1
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	260	260	260
DISCHARGE PRESSURE	80	80	80
RATE OF FLOW (cfs)	0.07	0.07	0.08
	31	33	36

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions:

No Friction

Examiners Notes:

The well was drilled in 1998 to a depth of 333 feet and static water level of 210 feet. The permit holder was unable to provide pump brand or model or pump curves but was able to provide pump set and horsepower. The system is supplied by a 5 Hp submersible pump set at 270 feet. The permit holder stated the pumping pressure was 80 psi. Using the theoretical horsepower equation worksheet calculations were estimated using a pumping level of 260 feet with efficiencies between 70% and 80%. Given these parameters the pump is potentially capable of providing an irrigation rate of 0.07 to 0.08 cfs if operating between 70 to 80% efficiency.



Figure 1.
Landscaping and
well located in
front of house.



Figure 2. Well
number D000126
is the source for
water right 63-
34243, located in
front of house.



Figure 3. Hunter Pro-C sprinkler control box.

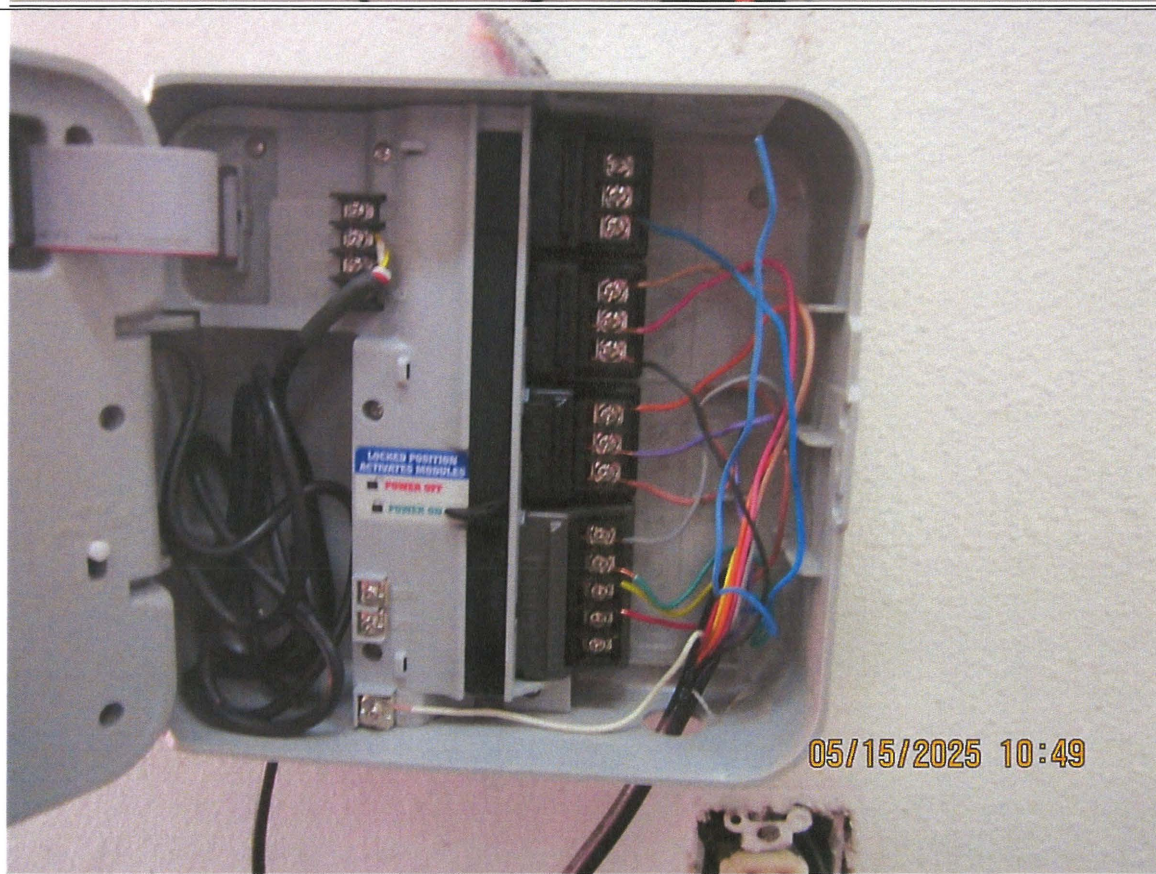


Figure 4. Wiring inside controller showing it is wired up for 11 zones.



Figure 5. Looking north from the house at recreation dust abatement area used for motorcycle riding.



Figure 6. Looking south towards house from dust abatement valves.



Figure 7. Three dust abatement valves.



Figure 8. Close up of dust abatement valve capable of accepting a fire hose type connection.



Figure 9. Lawn and landscaping around the house.



Figure 10. Rainbird 5000 sprinklers for lawn irrigation.



Figure 11.
Landscaping with
drip lines.



Figure 12. Garden
area with fixed
sprinkler heads.



IDAHO DEPARTMENT OF
WATER RESOURCES

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Governor Brad Little

Director Mathew Weaver

April 28, 2025

DOUGLAS AND/OR PAMELA POGUE
6954 W HOLLILYNN DR
BOISE, ID 83709-7268

RE: Scheduling Field Exam for Water Right Permit No. 63-34243

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use to issue a water right license.

The above-referenced permit authorizes **0.11 cfs from ground water for irrigation, recreation, and domestic uses**. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued, and the permit should be relinquished. If that use was developed but you have ceased using the water and currently carry no interest in it, please relinquish the permit by submitting a Relinquishment of Permit form (no fee required).

If you developed a beneficial use of water under the permit but no longer own the place of use property identified in the permit, please submit an Ownership Change form with the applicable \$25 processing fee. The Relinquishment of Permit and Notice of Change of Water Right Ownership forms can be found at this link: <https://idwr.idaho.gov/form/water-rights-forms/>

Please contact me within the next **thirty (30) days** at (208) 605-4623 to either schedule an examination or submit a Relinquishment of Permit and Notice of Change of Water Right Ownership form. If you no longer own the place of use property and/or do not respond to this letter, the Department will work with the current property owner to issue a license or void the permit.

Sincerely,

Allen Bradbury
Water Resource Agent, Sr.
IDWR Western Region

Enclosure: Proof Report and Map