

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23047
Exam Date: 07/10/2024

1. Current Owner:
US DEPT OF INTERIOR BUREAU OF RECLAMATION
1150 N CURTIS RD STE 100 BOISE ID 83706-1234

2. Accompanied by: None

3. **SOURCE:**
GROUND WATER

Method of Determination: Aerial Imagery, well report, and site visit.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

Water Right No.	Source	Purpose of Use	Basis

Comments:

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

Water Right No.	Source	Purpose of Use	Basis
65-7796	Groundwater	Domestic	Decree

Comments: Water right 65-7796 is for domestic use in the SWSW. This permit is for domestic use in the NWSW. Both water rights are served by the same well.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼ SW¼, Sec. 35, Twp 15N, Rge 03E, B.M. VALLEY County

Method of Determination:

2. **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	
15N	03E	35										X							

Method of Determination: Aerial imagery and site visit.

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
Well ID 852643		1/2			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 gallon bucket						

2. Measurements: Five measurements were taken by timing how long it took to fill a 5 gallon bucket. Each measurement was taken from a different spigot located on the campsite.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Timing how long it takes to fill a 5 gallon bucket.

Several measurements were taken during the exam from spigots located around the campground. Because the spigots are served by the well it seems reasonable that assuming no other spigots are running and the valve is fully open, that the flow rate should be a reasonable estimation of the max flow rate.

I measured 5 different spigots located around the campground. Two of the spigots filled the 5 gallon bucket in approximately 32 seconds, which were also the two fastest fillings out of all five measurements. Therefore, the flow rate, in cfs, can be calculated as follows.

$$\frac{5 \text{ gallons}}{32 \text{ seconds} \left(\frac{1 \text{ minute}}{60 \text{ seconds}} \right)} \times \left(\frac{1 \text{ cfs}}{448.83 \text{ gpm}} \right) = 0.02089 \text{ cfs or approximately } 0.021 \text{ cfs.}$$

Because the measured value is greater than the permitted value of 0.020, I recommend licensing 0.020 cfs for domestic use.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: Because the irrigation system pulls water from Lake Cascade instead of the well, there will be no irrigation component to this water right.

2. Volume Calculations for Other Uses:

I recommend that no volume be assigned to the domestic portion of this right because the flow rate for domestic use will be limited to 0.02 cfs. A flow rate of 0.02 cfs will only produce 12,926.3 gallons in a 24 hour period, which is less than a domestic use defined in Section 42-111, Idaho code. Domestic uses as defined by Idaho Code 42-111 are exempt from the volume reporting requirement per the beneficial use examination rule 37.03.02.035.01.j.ii.

G. NARRATIVE/REMARKS/COMMENTS

Permit 65-23047 was approved on March 20, 2007 authorizing the diversion of 0.20 cfs groundwater for irrigation and domestic uses. Proof of beneficial use was submitted March 1, 2012. A beneficial use field exam took place on September 9, 2019. On October 31, 2019 the license for 65-23047 was issued. Following the issuing of the license, a request for reconsideration was submitted on November 15, 2019 by E. Gail McGarry, the program manager at the Bureau of Reclamation, because the irrigation portion was omitted from the license. An order granting a petition for reconsideration in part was issued on December 5th, 2019.

I conducted the re-licensing field exam for 65-23047 on July 10, 2024. I spoke with the camp host, who was new to the position and mentioned this was her first year as camp host. She had a binder that was put together by a previous camp host dated August 2015. The information in the binder mentioned that,

"The irrigation water comes straight out of the lake (as opposed to the water from all the faucets in the campground and down at the boat ramp which comes from a well and storage tanks located down at the boat ramp)."

Additionally, I spoke with Blake Parker, the current park manager, who indicated that he did not think that the well was ever used for irrigation because of 1) The worry of cross contamination from the irrigation system getting into the culinary system and 2) the separation distance between where the well is located and the location of the pump from the lake that serves the irrigation system.

Based on these findings it appears that the well only services the drinking fountains and spigots located around the campground. The bathrooms are simple vault toilets (non-flushing) and therefore do not contribute to the water usage. For these reasons I recommend that the license be issued for just domestic use with a flow rate of 0.02 cfs and no volume limitation.

The well, which did not have a site tag number, is located on the southwest end of the boat parking area, near the boat ramp. The pump that takes water out of Lake Cascade for irrigation is located near the northeast end of the boat parking lot area. Flow rate measurements were taken using a 5 gallon bucket to determine max flow rate. Right 65-7796 also shares the same well and point of diversion as 65-23047.

Currently, the irrigation is achieved using water from Cascade Lake. The permit holder does not have a separate water right for the Cascade Lake diversion.

Have conditions of permit approval been met? ☒ 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>
DOMESTIC	01/01 to 12/31	0.02 CFS	
Totals:		0.02 CFS	

2. Recommended Amendments

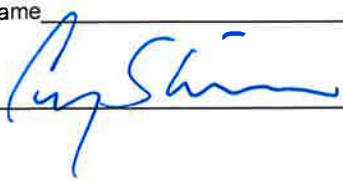
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Tyler Wallace - Engineer Associate

Field Examiner's Name _____ Date _____

Reviewer  _____ Date 7/26/2024

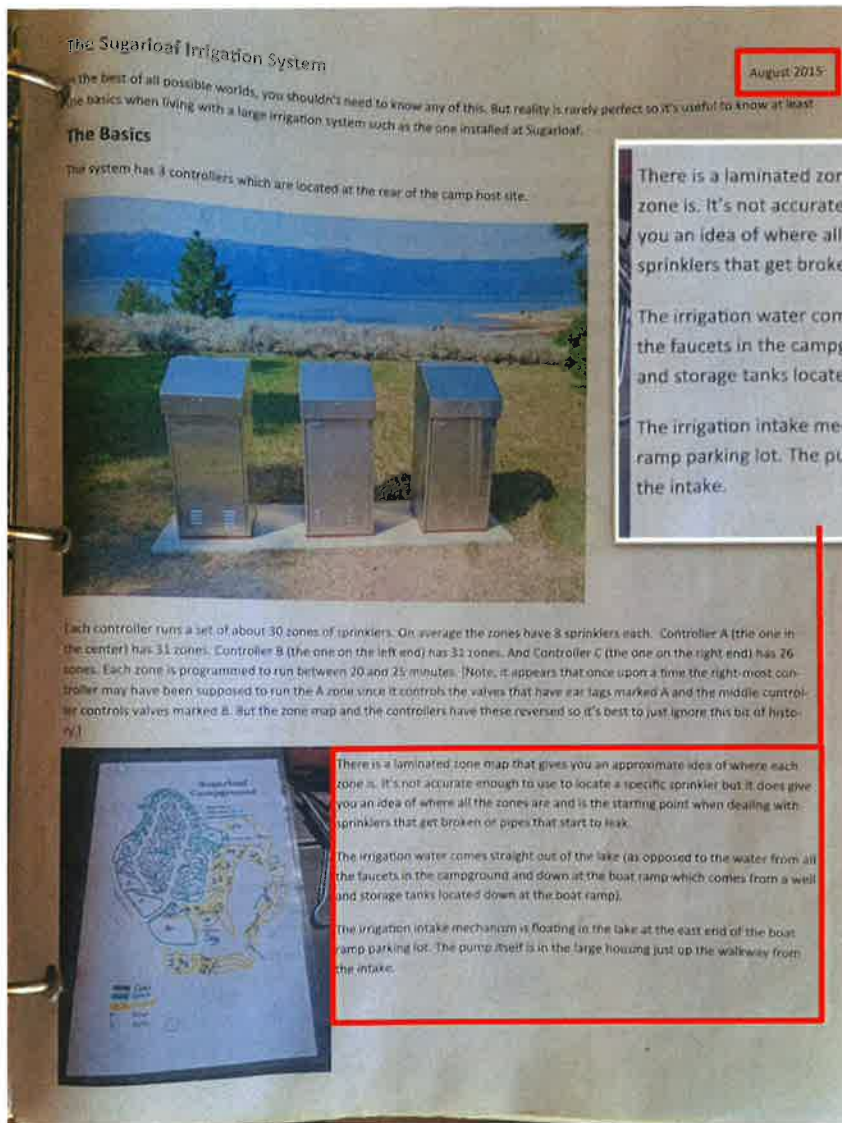


Photo 1 (left). Image taken of one of the pages from the camp host's helpful binder. Note that the page is dated August 2015 in the top right corner. The page indicates that the irrigation comes from the lake, not the well.

Photo 2 (bottom left). Image of the well showing the location of the well near the boat ramp.

Photo 3 (bottom right). Image of one of the spigots measured during the field exam.





Figure 1. Left image is an aerial image taken from google earth 2023 imagery showing the location of the sugarloaf unit campground for which water right 65-23047 is pertinent to. The right image offers a closer view of the campground and its appurtenant features. The yellow faucet icons are approximate locations where a spigot was measured using the 5 gallon bucket.

Field Exam 65-23047