

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

A. GENERAL INFORMATIONPermit No: 63-33800

Exam Date: 07/02/13

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other Domestic Use in compliance with 42-111

2. Current Owner: Name: State Of Idaho Department of Fish and Game
Owner of Record Correct? X Y N
Address of Record Correct? X Y N
If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0

4. SOURCE TRIBUTARY

Ground water

Method of Determination: Well Log and Confirmation from Owner.Change in Source: NO 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
63-29718			

Comments: Water right 63-29718 is an SRBA decree for the same place of use from a spring that gravity fed the facility. Apparently the spring use did not work well, so this permit was filed to provide a more stable water source from ground water.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights overlapping this point of diversion.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Ground water Well			SW	SE	19	3N	4E	B.M.	

Method of Determination: Well driller GPSed the well, and it was manually entered into the Well Driller's database. I used this location, since it was where it should have been per the permit.

Change in POD? N Amendment Required? N

2. PLACE OF USE: Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	4E	19															X		
Total Acres =																			

Method of Determination: GIS and analysis of water right file.Change in POU? NO Amendment Required? NOX Delivery 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).X Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well Pump	Unkonwn	1.5	Unknown	Unknown	Unknown

*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

2. Measurements: This was done as an in-house exam. A theoretical calculation was done to determine the estimated flow rate. The flow calculated was over the permitted amount.**E. FLOW CALCULATIONS**X Additional Computation Sheets Attached

Measured Method:

Theoretical Calculation = 0.05 cfs

Permit allowed = 0.04 cfs

I recommend 0.04 cfs for the license, since the theoretical is very close and a little bit more than the permit amount. The amount allowed by the permit is the most that we can allow.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad X 3.5 \quad} = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\quad X 214 X 1.9835 \quad} = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

This permit was filed after the Department issued the Basin 63 Ground Water Restricted Area. In order to file a water right in this area, the water use must comply with Idaho Code 42-111. A condition was not placed on the permit limiting to the water use to 2500 gallons per day according to Section B of 42-111.

G. PURPOSE OF USE

Irrigation ☐ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: This right was permitted for 1 home and up to ½ acre of yard irrigation. The facility is a modular home, but it is being used for the Boise River Wildlife Management Area Headquarters. Therefore, this is a commercial type use that falls within the description of a domestic use as described in Section B of 42-111.

Change in Purpose of Use? ☐ Y ☐ N

Method of Determination: Email with customer concern the use.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

The biggest issue with this permit is that it was approved without a daily volume limit as required under 42-111. In order for this permit to be approved, it would need a daily volume limit in the conditions or it would need some type of mitigation.

Therefore, this permit will be limited to 2,500 gallons per day. The original permit states one home and up to ½ acre yard irrigation. The actual structure is a modular home, but it is used as an office. Therefore, the domestic use is for the Boise River Wildlife Management Area Headquarters. They will still be able to irrigate up to ½ acres, but the photos sent by the owner suggests that very little if any irrigation occurs at this site.

This license will be licensed at the standard of 0.04 cfs, since it appears as though the well can easily produce that amount of water.

When water rights 63-33800 and 63-29718 are combined, they shall be limited to a single domestic use for the Boise River Wildlife Management Area Headquarters. The partial decree issued in the SRBA for 63-29718 allowed a limit of 13,000 gallons per day. However, water right 63-29718 included stockwater for horses, which wasn't included in this permit. Therefore, the diversion rate will be the actual limiting factor. If they have horses on the site, then they will be limited to 13,000 gallons per day, but if they are just supplying water to the headquarters building, they will be limited to 2,500 gallons per day.

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 to 10/31	0.04 CFS	
	<u>Totals:</u>	0.04 CFS	

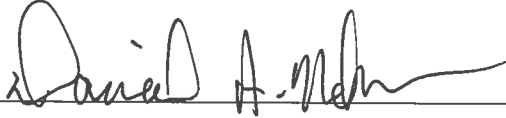
2. Recommended Amendments

☐ 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

Other: _____

J. AUTHENTICATION – Daniel Alan Nelson

Field Examiner's Name  Date 10-7-14

Reviewer _____ Date _____

Nelson, Dan

From: Muller, Krista [krista.muller@idfg.idaho.gov]
Sent: Monday, September 22, 2014 5:44 PM
To: Nelson, Dan
Subject: RE: Permit 63-33800
Attachments: IMG_1561.JPG; IMG_0978.JPG

Hello Dan,

Thank you for your email. I apologize for not emailing you sooner, but I just returned to the office from vacation. I have provided the information that you requested and attached two pictures of the headquarters building for you to view. Please let me know if there is anything else you may require.

Thank you,
Krista

1. The permit states that this use is for one home, but your letter states that use is for the Boise River Wildlife Management Area Headquarters. Is the water used for a home or the headquarters?

The headquarters building is an older modular home that is used for an office. It has 5 rooms in it (approximately 12x12) and a small bathroom (8x8). It is not used overnight or for long periods of stay (please see pictures).

2. If it is for the headquarters, could let me know how the water is used? For example: We use the water to provide water for 4 office people, 2 shop workers, and shop use for cleanup of vehicles and general use.

The water is used for drinking (by two staff people) and flushing the toilet.

3. What is the Horsepower of the pump that you have in the well. You can generally find the horsepower of the well on the pump's power box.

I looked at the power box that is attached to the constant pressure controller and it reads 8Hz, 1.5HP, 3 phase. I believe this is the information you need, but if not, please let me know. The power is located inside the office.

Krista Muller
Wildlife Habitat Biologist
Idaho Department of Fish & Game
Boise River Wildlife Management Area
13000 E Highway 21
Boise, ID 83716
(208) 334-2115
krista.muller@idfg.idaho.gov

"Conservation is a state of harmony between men and land" - Aldo Leopold





From: Nelson, Dan [Dan.Nelson@idwr.idaho.gov]
Sent: Friday, September 19, 2014 9:58 AM
To: Muller, Krista
Subject: Permit 63-33800

Hello Ms. Muller,

Our office received your Proof of Beneficial Use form for 63-33800. The State of Idaho 2012 Legislature approved updates to the Idaho Department of Water Resources' (Department) Rules of Procedure which allowed the Department to perform field exams on certain water rights in the office without physically going to the property and performing a field verification exam. It appears we can perform the field exam and license permit 63-33800 without actually visiting the site. You can request an on sight field exam to be done if you wish, which we would be happy to do. If we can obtain a small amount of information from you, we can license this permit without scheduling a time for us to come out to the site.

Your permit provides most of the information that we need to license this water right, however, there are a couple of items that need to be clarified before I can move forward. These items are:

1. The permit states that this use is for one home, but your letter states that use is for the Boise River Wildlife Management Area Headquarters. Is the water used for a home or the headquarters?
2. If it is for the headquarters, could let me know how the water is used? For example: We use the water to provide water for 4 office people, 2 shop workers, and shop use for cleanup of vehicles and general use.
3. What is the Horsepower of the pump that you have in the well. You can generally find the horsepower of the well on the pump's power box.

If you can supply any or all of this information it would be very helpful in licensing your water right. Any pictures you can provide would also be helpful. If you have any questions, please don't hesitate to contact me.

Daniel Nelson
Staff Hydrologist
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)

State of Idaho
Department of Water Resources
Field Exam Map
63-33800

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

04E



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.0225 0.045 0.09 Miles

