

A. GENERAL INFORMATION

Exam Date: 01/08/2014

2. Accompanied by:
Phone No:
Address:
Relationship to Permit Holder:

TRIBUTARY
COLUMBIA RIVER

1. Other water rights with the same place of use: 03-7051
2. Other water rights with the same point of diversion:

1. LOCATION OF POINT(S) OF DIVERSION:

Method of Determination: Digitized

PLACE OF USE: IRRIGATION

Total Acres: 0.1

[illegible]

Method of Determination:

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
		5			2 inches

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements:

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

Theoretical pump flow rate for 5 HP, 70% efficiency, 40 feet of lift, and 40 psi:
 $Q = (8.8 \times 5.0 \times 0.7) / (40 + (40 \times 2.31)) = 0.23 \text{ cfs}$

The diversion rate to be licensed under this right will be limited to the requested 0.12 cfs for fire prevention.
 Pump discharge for irrigation will be limited to the minimum amount allowable 0.01 cfs (0.1 acres x 0.03 cfs).
 Total maximum diversion will be 0.12 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: Not required for irrigation from surface water

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

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

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

2. Volume Calculations for Other Uses:

Not required for fire prevention

G. NARRATIVE/REMARKS/COMMENTS

This permit was in-office field examined on 01/08/13 by myself, Craig Tesch. This permit authorizes the diversion of surface water to be used for irrigation and fire prevention purposes. Surface water is supplied from the Snake River by an electric pump south of Lewiston, Idaho, in Hells Canyon.

Water is used for irrigating small vegetation areas around the cabin (0.06 acres, rounded to 0.1 acres). Most of the remaining property is exposed rock and sagebrush. The river and pump are located approximately 100 feet west of the cabin. The 5 HP pump delivers water to a 500 gallon storage tank approximately 35 feet east of the cabin. Per the application for permit, the pump power is 5 HP, and theoretical flow rate was calculated using 70% efficiency, 40 feet of lift, and 40 psi resulting in a discharge rate of 0.23 cfs. Pump discharge for fire prevention will be limited to the requested diversion rate of 0.12 cfs. Pump discharge for irrigation will be limited to the minimum amount allowable 0.01 cfs (0.1 acres x 0.03 cfs).

A volume limit is not required for fire prevention or irrigation from surface water. Additionally, a storage right is not necessary as the 500 gallon storage tank can easily be filled in less than 24 hours (500 gallons/54 gpm = 9.3 minutes). Water right 03-7051 has an overlapping POU for a different owner for domestic use from the Snake River on the tax lot for this right (03-10224), but the POD is on a different tax lot.

The license will be conditioned to include a fish screen on the pump intake line. A small system such as this would need a small trash screen on the intake for the pump to operate and not burn out, and the size of the pump shouldnt produce a significant approach velocity.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.010 CFS	
FIRE PROTECTION	01/01 to 12/31	0.120 CFS	
<u>Totals:</u>		0.120 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Craig Tesch Date 1/8/2014
 Reviewer Daniel A. Nelson Date 1-14-14



Water pumped from Snake River
through pvc pipe to storage tank

500 gallon
water tank



[illegible]

Tesch, Craig

From: Rich Rogers [rrogers@rogersmotors.com]
Sent: Wednesday, January 08, 2014 11:44 AM
To: Tesch, Craig
Subject: Emailing: Scan0145
Attachments: Scan0145.pdf

Craig: Sorry to the delay in getting back to in reference to our water right permit on the snake river. I made some notes on the picture showing [2] smaller areas where we water during the last spring, summer, & early fall for vegetation. The main use is fire protection & the tank is ours in picture.

Thank-you,
Rich Rogers

The message is ready to be sent with the following file or link attachments:

Scan0145

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

This email is free from viruses and malware because avast! Antivirus protection is active.
<http://www.avast.com>



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Map Traffic