

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-15624

Exam Date: 8/22/2012

1. Current Owner: JOHN ALFRED SIMPSON
And/Or
SUSAN ISLEY SIMPSON
774 LEMHI RD
SALMON ID 83467
(208)756-6845
2. Accompanied by: Al Simpson
Phone No: (208)756-6845
Address: 774 Lemhi Road; Salmon ID 83467
Relationship to Permit Holder: Permit holder

3. **SOURCE**

WASTEWATER

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: none
2. Other water rights with the same point of diversion: none

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

WASTE WATER SE1/4NE1/4 Sec. 29, Twp 21N, Rge 23E, B.M.LEMHI County

Method of Determination: GPS and visual inspection

2.

PLACE OF USE:

		IRRIGATION																	
Twp Rge Sec		NE				NW				SW				SE					
21N	23E	29	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
					5.0														5.0
Total Acres:		5																	

Method of Determination:

3.

YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

YES Aerial Photo Attached

YES Photo of Diversion and System Attached

4. none

Well or Diversion**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge Size****D. FLOW MEASUREMENTS**

1. none

D. FLOW MEASUREMENTS

1. none

Measurement

<u>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: none

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method: none

Manning's Equation: 3.54 cfs

5 acres X 0.02 = 0.1

Permit for 0.24 cfs

Recommended rate 0.1 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 \times 3.5 = 17.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.1 \times 246 \times 1.9835 = 48.79$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 17.5 \text{ AF}$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

Eagle Valley Ranch diverts water from Bohannon Creek in T21N R23E Section 15 SESE. Excess irrigation water flows from the Ranch downhill to the southwest. Water collects in a small pond in the valley to the northwest of the Simpson house. There is headgate just below the pond that allows water to be diverted into a pipe that supplies water for a ditch. The pipe runs under the road and opens to a ditch that flows east, southeast through the Simpson property. Mr. Simpson puts tarps into the ditch to flood irrigate the 5 acres around his house. According to Mr. Simpson there is only enough water to irrigate 2 times a year for 4 or 5 days.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.10 CFS	
<u>Totals:</u>		0.10 CFS	17.5 AF

2. Recommended AmendmentsX 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. AUTHENTICATIONField Examiner's Name Sandra Thiel Date 5/6/2013

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
74-15624

This map depicts the IRRIGATION 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.

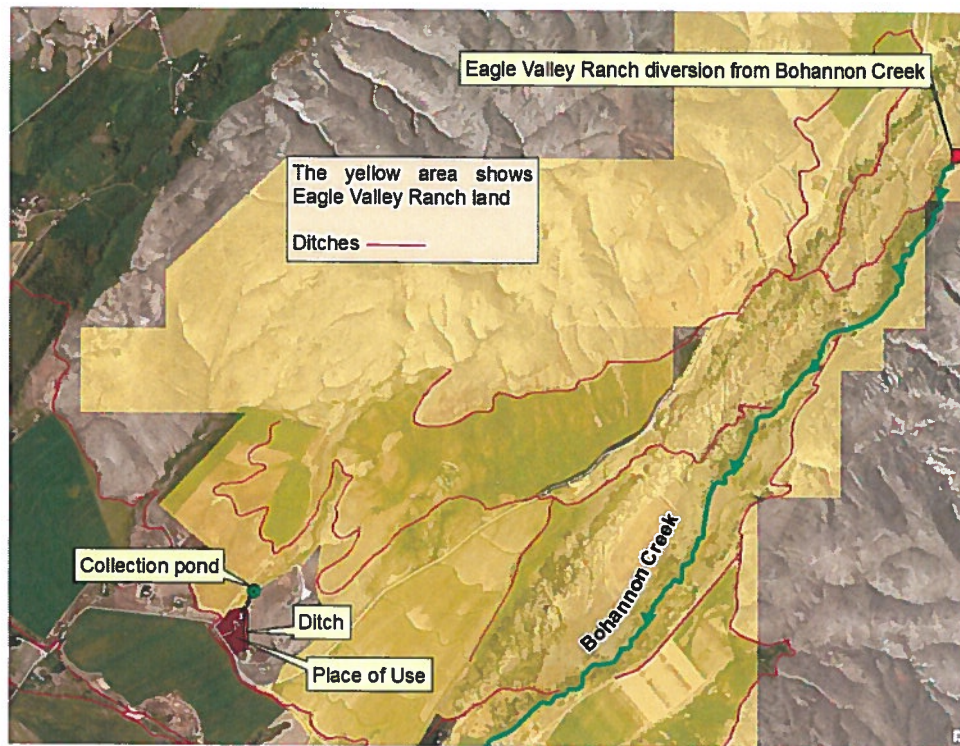


- Point of Diversion
- PLS Sections
- Place Of Use Boundary
- Quarter Quarters
- Townships



0 Miles
0.25

Water Distribution System Water Right 74-15634

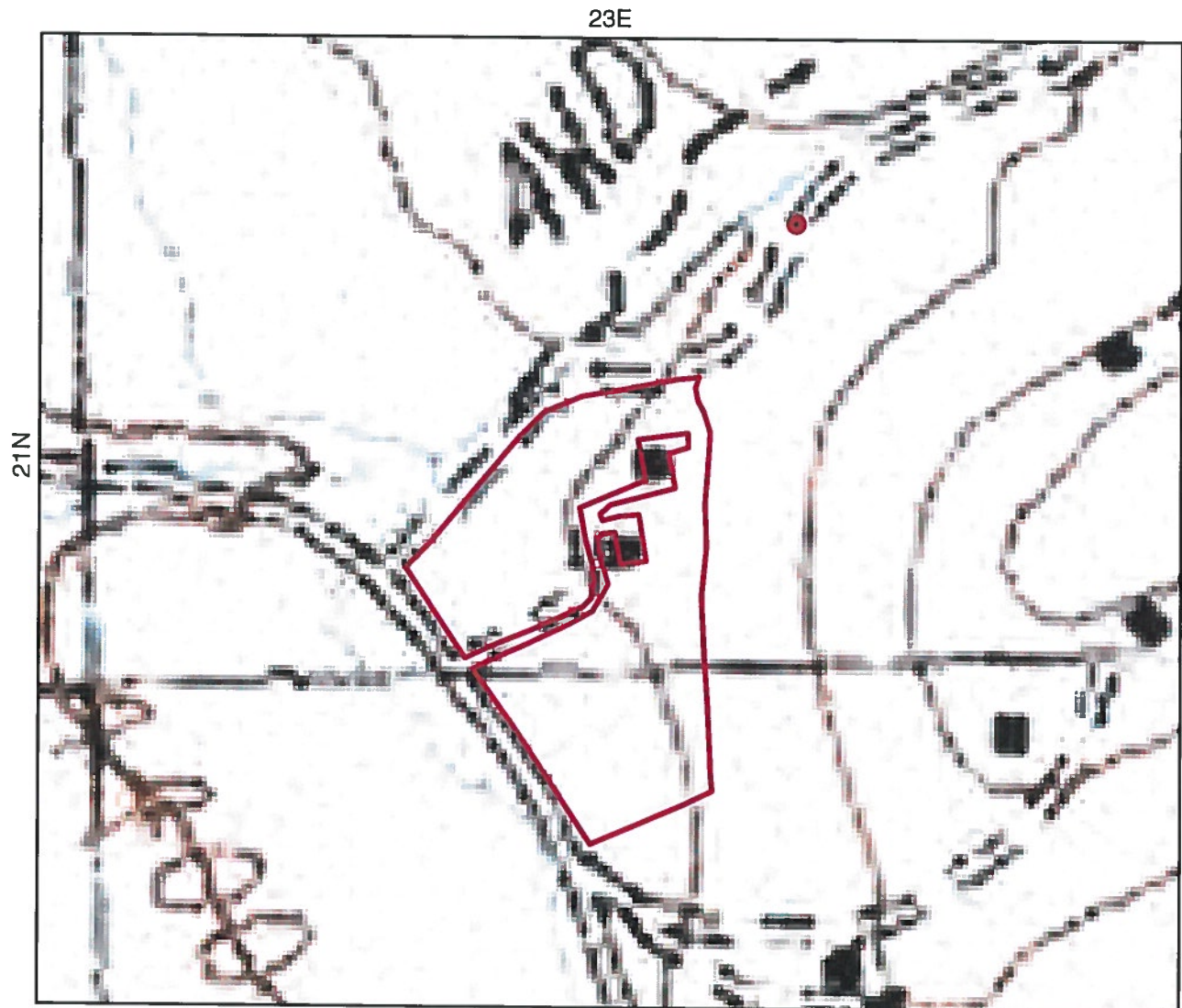


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- Point of Diversion
- Place Of Use Boundary



0 Miles
0.25

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- Point of Diversion
- Place Of Use Boundary



0 Miles 0.25

From: Al Simpson [mailto:jas4358@gmail.com]
Sent: Monday, March 04, 2013 8:19 AM
To: Thiel, Sandra
Subject: Re: Water right permit 74-15624

Good Morning Sandra:

Here are those measurements you requested. They are only approximate as the ditches still have snow in them.

Width, top of ditch = 5 ft, Width, bottom of ditch = 1 ft Depth = 18 in.

Width @ high water mark = 15 in and depth 3 in

Maximum capacity of headgate ? It is limited to whatever the 8 in PVC pipe can convey for the first 150 ft or so until the water flows into the ditch.

Sorry I cannot provide more accurate measurements at this time.

Al

On Fri, Mar 1, 2013 at 3:27 PM, Thiel, Sandra <Sandra.Thiel@idwr.idaho.gov> wrote:

Thank you. Aside from the extra work, have a good weekend

From: Al Simpson [mailto:jas4358@gmail.com]
Sent: Friday, March 01, 2013 3:26 PM
To: Thiel, Sandra
Subject: Re: Water right permit 74-15624

Hi Sandra:

I failed to check my email last evening after I got home. I'll get those measurements for you over the weekend.

Al

On Thu, Feb 28, 2013 at 10:52 AM, Thiel, Sandra <Sandra.Thiel@idwr.idaho.gov> wrote:

Hello, Thanks for calling and answering my questions about your water right permit. I do have another question. Since I was unable to take a measurement while I was visiting you place last August, I wondered if you might be able to provide me with the dimensions of the ditch? Could you please measure the width and depth at the high water mark? If possible could you also provide me with the maximum capacity of your headgate? This information would greatly help me in licensing your water right. Thank you.

Sandra Beer Thiel
Idaho Department of Water Resources
322 East Front Street
Boise, Idaho 83720-0098
(208)287-4881
sandra.thiel@idwr.idaho.gov

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full

READ ME

S = 0.0414 ft/ft
n = 0.009 manning's coefficient
d = 8.0 pipe diameter (inches)
D = 0.67 pipe diameter (feet)
r = 0.33 pipe radius (feet)
A = 0.35 area (ft²)
WP = 2.09 wetted perimeter (ft)
R = 0.17 hydraulic radius (ft)

Q = 3.54 flow rate (CFS)

Channel Slope

Slope Options

☐ Manual Entry ☒ Slope Calculator

Slope Calculator

Rise = 12 feet

Run = 290 feet

Slope, S = 0.0414 ft/ft

Pipe Material, (n):

plastic (pvc, abs)

Pipe Diameter (inches)

8.0 inches

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, August 22, 2012
FILE NUMBER 74-15624



Wastewater
collection

The arrow shows
direction of flow



Collection trough

Diversion works
downstream from
the collection trough



Diversion
works

Collection trough



Looking
downstream



Collection
trough

Looking upstream



House surrounded
by irrigated land