

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14083

Exam Date: 8/22/2012

1. Current Owner: DEER CREEK LLC
501 BAYBROOK CT
BOISE ID 83706
208-424-3865
2. Accompanied by: Bob Payne
Phone No: (208) 413-0277
Address: 831 6th Avenue, Lewiston, ID 83501
Relationship to Permit Holder: Property Manager

3. SOURCE

SALMON RIVER

TRIBUTARY

SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 79-14220
2. Other water rights with the same point of diversion: 79-14220

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SALMON RIVER

L1 SE1/4NW1/4

Sec. 27, Twp 31N, Rge 03W, B.M.

LEWIS County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: FIRE PROTECTION

[illegible]

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
N/A	Unknown	2		Gould	(2" & 1 1/2")

*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>
Pitot Tube						

2. Measurements: Pitot tube pressure measurement of 48 psi. Pitot tube did not fit the 3/16" sprinkler head nozzle, so the pressure measurement is lower than the normal operating pressure. Therefore, assuming an operating pressure of 60 psi, the sprinkler discharge for a 3/16" nozzle equals 8.12 gpm (IDWR Sprinkler Discharge Table). Four sprinklers are in operation per station. $Q = 4 \times 8.12 \text{ gpm} = 32.5 \text{ gpm}$ (0.07 cfs). As indicated on the 'IDWR Expected Flows for Pipe Diameters', the flow capacity for a 1 1/2" pipe is 0.07 cfs, which confirms that the estimated operating pressure of 60 psi was a correct assumption.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 2/50 + (2.31 \times 60) = 12.32/188.6 = 0.07 \text{ cfs}$$

(Sprinkler Head Discharge Table: 4 - 3/16" heads @ 60 psi)

$$Q = 4 \text{ heads} \times 8.12 \text{ gpm} = 32.5 \text{ gpm} (0.07 \text{ cfs})$$

$$Q(\text{theoretical}) = 0.07 \text{ cfs} = Q(\text{sprinkler heads}) > 0.04 \text{ cfs } Q(\text{permit})$$

$$P = 60 \text{ psi (Estimated)}$$

$$Z = 50' \text{ (Estimated)}$$

$$HP = 2$$

Appears that the current pumping system is capable of attaining the permit beneficial use diversion rate of 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 2-hp submersible pump, which is attached to the end of the 2" PVC suction line, is used to divert water from the Salmon River for fire protection. Water is pumped through a 2" PVC screened suction line to the 1" PVC fire protection main lines. The suction line, which reduces to 1 1/2" PVC at the beach, extends northerly to the top of the river bank and connecting to the 1" fire protection main line adjacent to the main landing strip. The suction line is approximately 100-feet in length. The estimated pump lift from the bank of the Salmon River is 50-feet.

The pump controls consist of a manual 'on' and 'off' switch on a small control panel pedestal located at the top of the river bank near the river/beach access road.

FIRE PROTECTION SYSTEM:

The fire protection system is comprised of a 1" PVC main line and 3/16" Rainbird sprinkler heads located on the southerly edge of the main landing strip and the parcel area east of the home site.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 79-14220 and Water Right Permit No. 79-14083 have the same point of diversion from the Salmon River.

Place of Use: The places of use for Water Right Permit No. 79-14220 (Irrigation) and Water Right Permit No. 79-14083 (Fire Protection), overlap.

MAPPING DEFICIENCY/CLARIFICATION:

The location of the quarter-quarter lines as shown on the attached aerial photo are not shown in the proper locations. By inspection of the aerial photo quarter-quarter lines and tax lot lines, it appears that a portion of the right holder's parcel is located within the NENW and NWNE 1/4 of Section 27.

The right holder's warranty deed confirms that the aerial maps representation of the location of the quarter-quarter lines is incorrect. According to the aerial photo, the right holder's fire protection main line and valve boxes are located north of the quarter-quarter lines on land owned by the Idaho Fish & Game Department. The legal description from the warranty deed indicates that the 'Point of Beginning' is the Center North 1/16 corner, which is located on the quarter-quarter line. The aerial photo shows that the Center North 1/16 corner and the quarter-quarter lines are located within the right holder's property.

BENEFICIAL USE:

Domestic use is not applicable for this permit. Domestic beneficial use removed from permit. Right holder will need to be notified of a required amendment to the permit. The residence and lawn are served by a domestic well located northeast of the residence.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.04	&/or	N/A
System Measurement	0.07(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION	01/01 to 12/31	0.040 CFS	N/A
<u>Totals:</u>		0.040 CFS	N/A

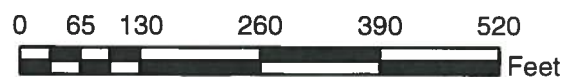
2. Recommended Amendments

☐ 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

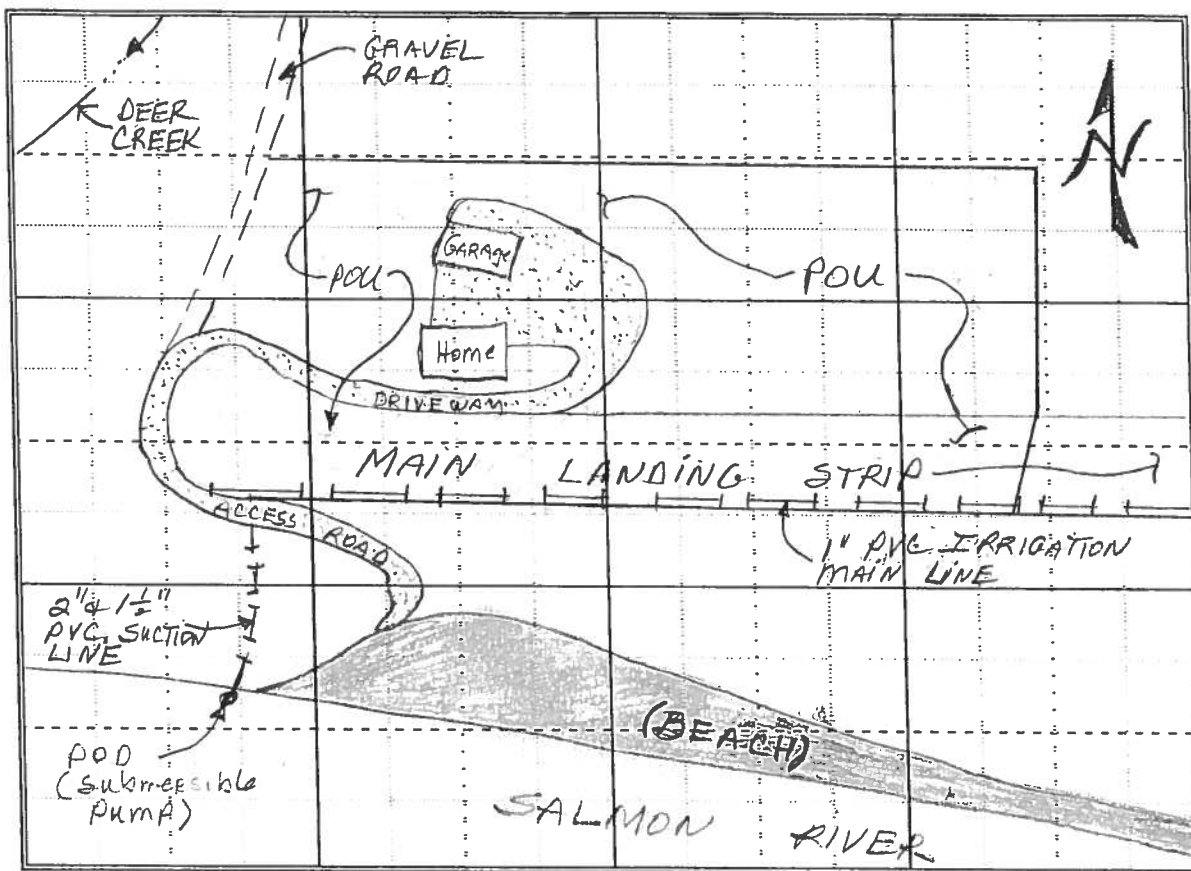
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 1/30/13
 Reviewer _____ Date _____

BING AERIAL PHOTO - 2011



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PRIVATE CLAIMS

General Land Office Records

Search Documents Reference Center Support

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DM ID: 39361 Survey Type: [Original Survey](#) Survey Title: [Retracement And Resurvey East And North Boundaries](#) State: [Idaho](#)

Survey Plat Details [Plat Image](#) [Related Documents](#)

Sheet: 1 Description: ---

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FIELD EXAM PHOTOS

Water Right Permit: 79-14083

Field Exam Date: 8-22-12

PLS: SE1/4, NW1/4 Section 27, T.31N, R.03W.

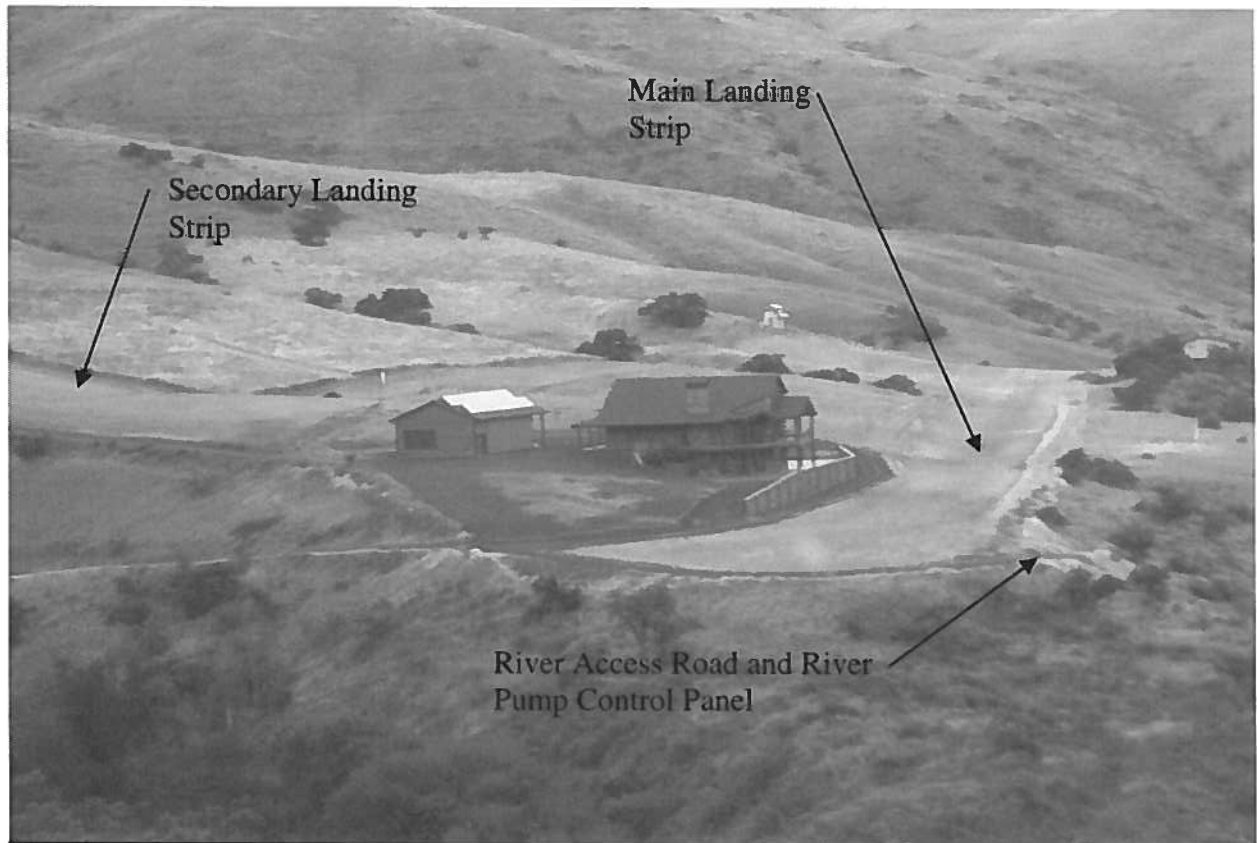
Field Examiner: RC



Point of Diversion: View of screened 2-hp submersible pump and 2" suction line on north bank of the Salmon River. The 2" PVC suction line extends to the beach where it is reduced to 1 1/2" PVC before extending up the river bank to the 1" irrigation main line.



Place of Use: View easterly of the Rainbird sprinklers irrigating the main landing strip. Approximately 1,000 lineal feet of 1" PVC main line extends easterly to the end of the landing strip. The control panel for the 2-hp submersible pump is located near the access road shown at the right.



Place of Use: View easterly of the irrigable area surrounding the Deer Creek, LLC structures and access roads. The main landing strip is shown to the right, while the southerly end of the secondary landing strip is shown to the left.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 6, 2012

Deer Creek, LLC
501 Baybrook Ct.
Boise, ID 83706

RE: Scheduling Field Exam for Water Right Permit No. 79-14083

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.04 cfs of surface water from the Salmon River for domestic use for one home and fire protection.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 14, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.