

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-15901

Exam Dates: 11/25/2024

Accompanied by: NA

Examiner: Christian Stewart, IWDR Water Resource Agent

1. Current Owner:

STATE OF IDAHO
IDAHO FISH & GAME COMMISSION
PO BOX 25
BOISE ID 83707-0025

2. **SOURCE: NORTH FORK SALMON RIVER** **TRIBUTARY: SALMON RIVER**

B. OVERLAP REVIEW

1. Place of Use: No overlap for the purpose of use
2. Point of Diversion: Diverted at same point of diversion as rights 75-10009, 14684, 14685. SNF-06A diversion.

C. DIVERSION AND DELIVERY SYSTEM

Small surface diversion ditch at POD. A rotating barrel screen allows water to pass through the structure for the irrigation rights. A 0.8 ft diameter circular pipe returns water and fish back into the stream at the place of use. A 4-inch diameter plate controls the bypass flow into the pipe.

1. **POINT OF DIVERSION:**

NORTH FORK SALMON RIVER NW¼ NW¼, Sec. 22, Twp 25N, Rge 21E, B.M. LEMHI
County

Method of Determination: Field inspection

2. PLACE OF USE: FISH PROPAGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
25N	21E	21	X																
25N	21E	22						X											

Method of Determination: Site inspection.

D. FLOW MEASUREMENTS

Submerged orifice theoretical calculation (inlet controlled):

H Head from center of orifice: 2.0 ft (measured at high water mark)

A Area: 0.087 ft² (.33ft diameter)

G Gravity: 32.2 ft/s

C Coefficient of Discharge: 0.67 (experimentally determined at similar bypass structures, see memo in 72-16752)

$$Q(\text{cfs}) = CA \cdot \sqrt{2GH} = \mathbf{0.66 \text{ CFS}}$$

F. VOLUME CALCULATIONS

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.66 \times 214 \times 1.9835 = 282 \text{ AF.}$$

G. NARRATIVE/REMARKS/COMMENTS

The diversion meets department requirements for a lockable headgate. Use of water was confirmed to be non-consumptive; all water diverted was returned to the stream below the place of use. Proof of beneficial use was submitted within the permit development timeline.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
FISH PROPAGATION	04/01 to 10/31	0.66 CFS	282 AF
Totals:		0.66 CFS	282 AF

2. Recommended Amendments

<u> </u> Change P.D. as reflected above	<u> </u> Add P.D. as reflected above	<u> X </u> None
<u> </u> Change P.U. as reflected above	<u> </u> Add P.U. as reflected above	<u> X </u> None

I. AUTHENTICATION Christian Stewart, IDWR Water Resource Agent

Field Examiner's Signature Christian J Stewart

Date 12/5/2024



State of Idaho
Department of Water Resources

Water Right

75-15091

State Of Idaho

November 27, 2024



0 0.035 0.07 0.14 Miles

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

