

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-16620

Exam Dates: 11/25/2024

Accompanied by: NA

Examiner: Christian Stewart, IWDR Water Resource Agent

1. Current Owner:

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

2. **SOURCE:** PRATT CREEK

TRIBUTARY: LEMHI 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 74-198 and 74-16061 at LPC-01.

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:

PRATT CREEK SW¼ SE¼, Sec. 1, Twp 20N, Rge 23E, B.M. LEMHI County

LPC-01 diversion

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	
20N	23E	1															X		

Method of Determination: Site inspection.

D. FLOW MEASUREMENTS

Submerged orifice theoretical calculation (inlet controlled):

H Head from center of orifice: 2.3 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)

$$Q(\text{cfs}) = CA \cdot \sqrt{2GH} = \mathbf{.85 \text{ CFS}}$$

The diversion capacity exceeds the permitted diversion rate, and will be licensed for 0.8 CFS.

F. VOLUME CALCULATIONS

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.8 \times 246 \times 1.9835 = 390 \text{ AF.}$$

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	03/15 to 11/15	0.8 CFS	390

Totals: 0.8 CFS 390 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Christian Stewart, IDWR Water Resource Agent

Field Examiner's Signature Christian J Stewart

Date 12/5/2024

North West Elevation

☉ 152°SE (T) ● 45.088132°N, 113.676378°W ±32ft



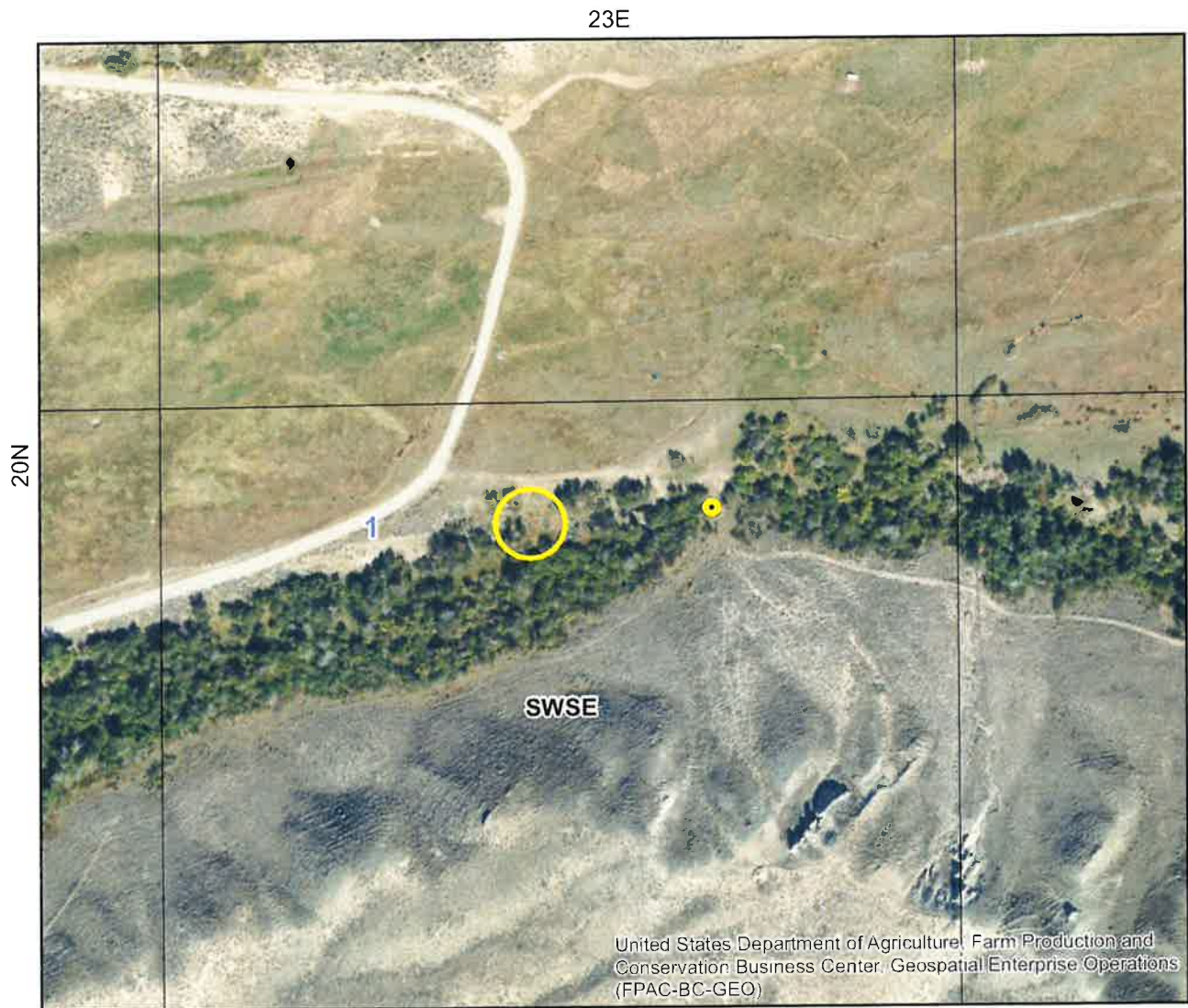
State of Idaho
Department of Water Resources

Water Right

74-16620

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

