STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION **Permit No:** 74-16630

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: BOHANNON CREEK** **TRIBUTARY: LEMHI RIVER**

B. OVERLAP REVIEW

1. Place of Use: No overlap for the purpose of use

2. Point of Diversion: Diverted in connection with right 74-174.

C. DIVERSION AND DELIVERY SYSTEM

Small surface diversion ditch at POD. A rotating barrel screen allows water to pass though 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:**

BOHANNON CREEK NE¼ NE¼, Sec. 10, Twp 21N, Rge 23E, B.M. LEMHI County

Diversion LBC7
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	
21N	23E	10	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 ft^2 (.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(cfs) = CA*sqrt(2GH) = **0.59 CFS**

F. VOLUME CALCULATIONS

$V_{D.R.}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = 0.59 x 246 x 1.9835 = 290 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 12/11/23 and was due 12/01/24.

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	**0.59 CFS**	**290**
	Totals:	0.59 CFS	290 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

SE
S
SW
120
150
180
210
240
184°S (T)
45.167899°N, 113.710487°W ±216ft
25 Nov 2024, 12:14:19

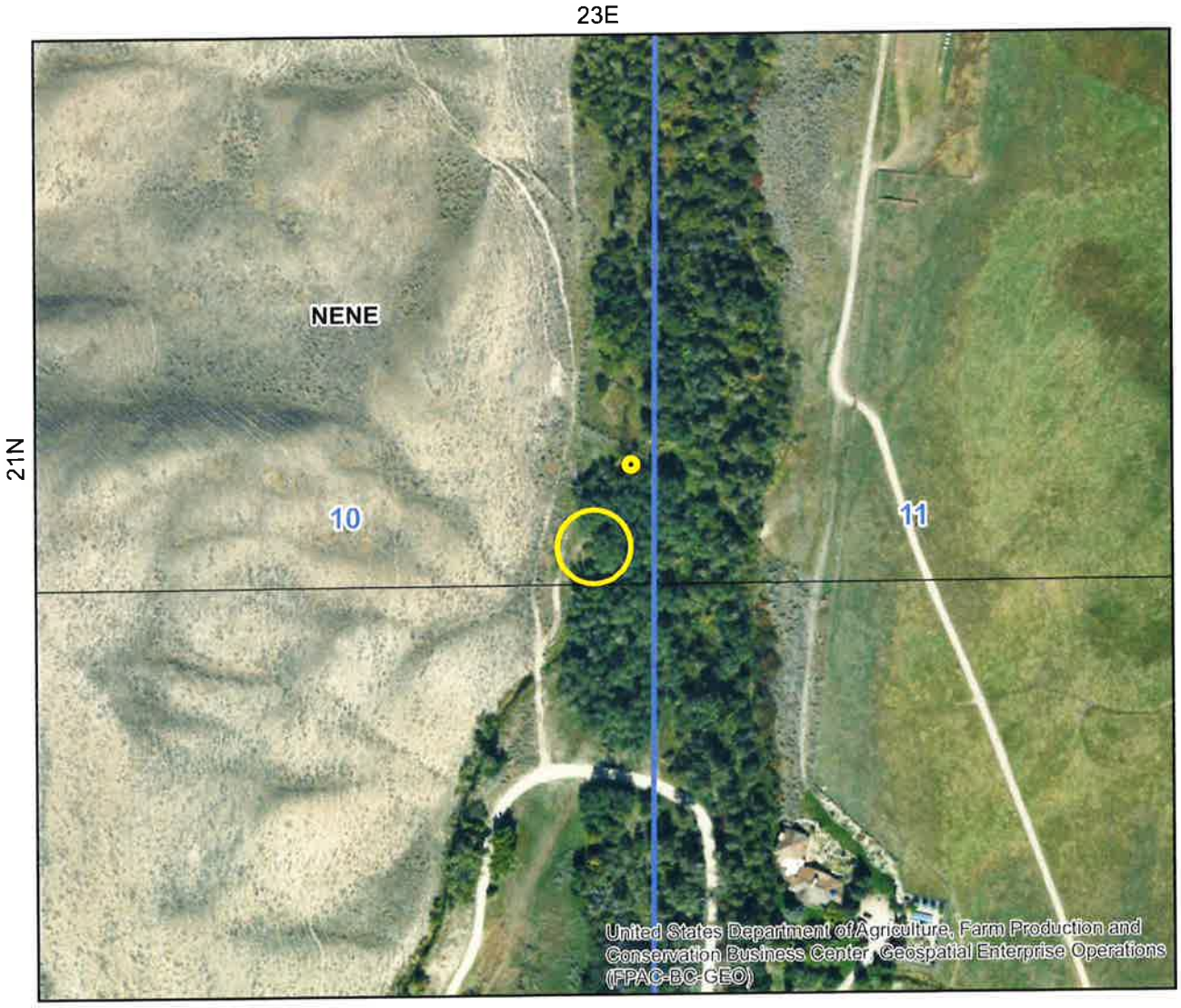
State of Idaho
Department of Water Resources

Water Right

74-16630

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

N