

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-15090

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:** TOWER CREEK

TRIBUTARY: SALMON RIVER

B. OVERLAP REVIEW

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

2. Point of Diversion: Diverted at same location as 75- 2004A, 7142, 4067, 2004D, 4141, 4497, 2004F, 2004K, 2004L, 14707, 14708, 14719, 14720, 14947.

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:

TOWER CREEK SW¼ NW¼, Sec. 17, Twp 23N, Rge 22E, B.M. LEMHI County

SToC-03

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	
23N	22E	17							X										

Method of Determination: Site inspection.

D. FLOW MEASUREMENTS

Submerged orifice theoretical calculation(inlet controlled):

H Head from center of orifice: 1.3ft (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)

$$Q(\text{cfs}) = CA \cdot \sqrt{2GH} = \mathbf{0.53 \text{ CFS}}$$

F. VOLUME CALCULATIONS

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.53 \times 214 \times 1.9835 = 227 \text{ AF.}$$

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	0.53 CFS	227

Totals: 0.53 CFS 227 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



☉ 260°W (T) ● 45.325245°N, 113.889534°W ±32ft



State of Idaho
Department of Water Resources
Water Right
75-15090
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

