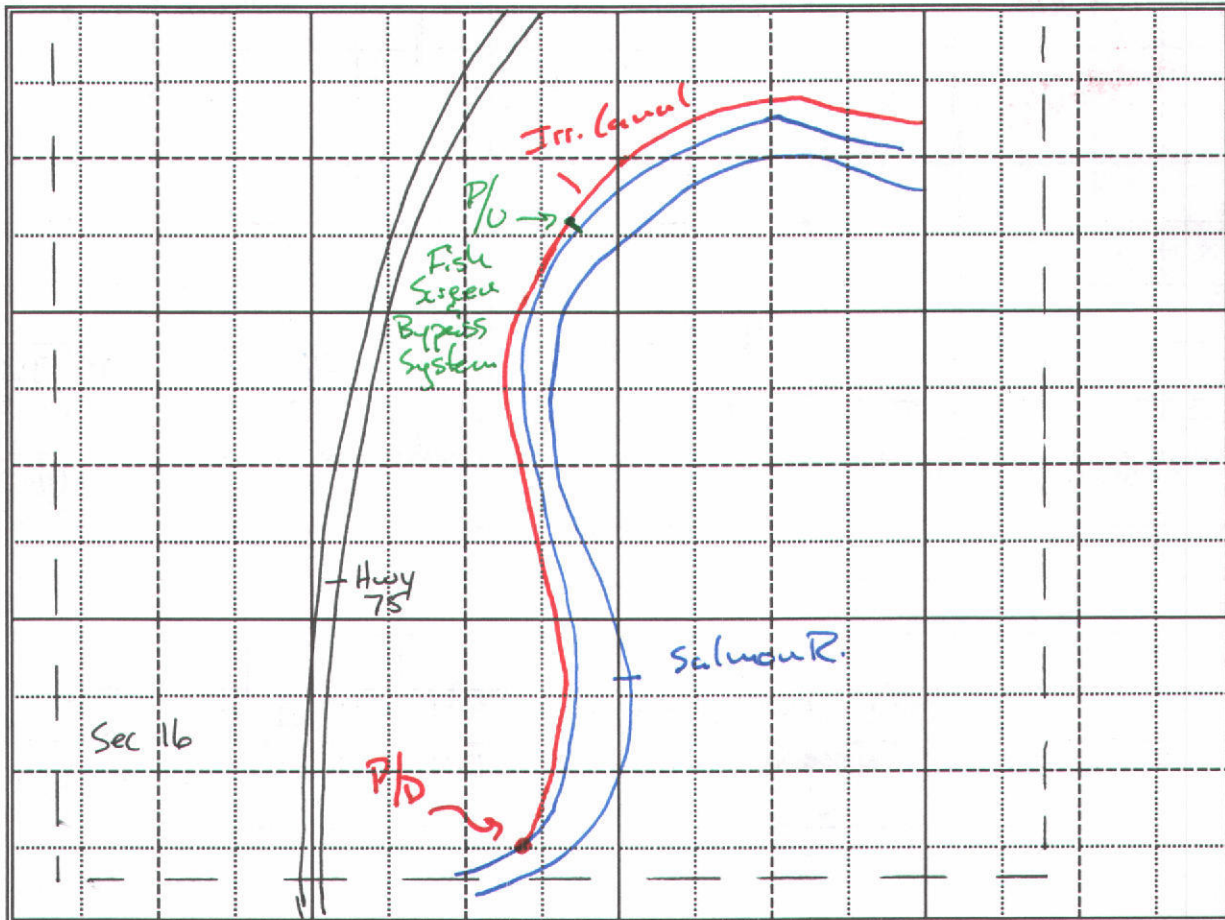


3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. **Measurements:** Measured the size of orifice when steel plate was set out third screw from top - 0.6' wide by 1.2'

W/EGE 5 1994

12-7493 316 13N 19E

'30"

4926

4925

(BAYHORSE)

PERMIT 72-7493 INIT BRB.
T. R. S. Q/Q
P/D 13W 19E 16 SWSE
SCALE
PHOTO ID.

SALMON

RIVER

AUG 15 1994

5010

P/D

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(BAYHORSE)

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13N19E

AUG 15 1994



P72-07493
These photos were
taken on 8-18-93.

Salmon screen

P/D is approximately
5/8 of a mile upstream
at a wing dam on
the Salmon R.

steel plate used vertically
to control discharge



water
travels through a 6" trench
until it runs to a 18" corrugated pipe

corrugated pipe
runs 5' to 6' ft
out, it open
discharges into
the Salmon R.
AUG 15 1994

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE
WATER RIGHT NO. 72-07493

Priority: June 9, 1992

Maximum Diversion Rate:

0.80 CFS

This is to certify, that STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated June 9, 1992; and
has submitted Proof of Beneficial Use on January 13, 1993. An examination indicates
that the works have a diversion capacity of 6.300 cfs of water from:

SALMON RIVER

tributary to **SNAKE RIVER**

source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	04/15 to 10/15	0.80 CFS	

LOCATION OF POINT(S) OF DIVERSION: Lot 6(SWSE), Sec. 16, Township 13N, Range 19E
CUSTER County

PLACE OF USE: FISH PROPAGATION

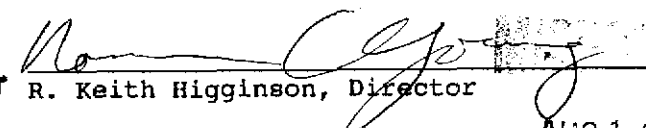
TWN RGE SEC

13N 19E 16 Lot 2(SWNE)

CONDITIONS/REMARKS:

1. This water right is appurtenant to the described place of use.
2. This right is subject to all prior water rights and may be forfeited by five years of non-use.
3. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
4. Use of water under this right shall be non-consumptive.
5. The issuance of this right in no way grants any right-of-way or easement across the land of another.
6. Fish propagation use is for fish protection through the installation of a deflecting screen at a diversion canal entrance and a bypass pipe to flush the fish back to the Salmon River.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 26TH
day of July, 1994.

Acting for  R. Keith Higginson, Director

AUG 15 1994

11/93 RECEIVED

JAN 13 1993

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

OFFICE USE ONLY

Amt. of Fee \$ 100.00Date 1-14-93Receipt No. C026514Receipt by [Signature]

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 72-07493 Telephone No. (208) 334-3700
2. Name(s) of Permit Holder(s): Idaho Department of Fish and Game
3. Mailing Address: 600 S. Walnut, Boise, Idaho 83707
4. Source of Water: Salmon River, tributary of Snake River

If GROUNDWATER, Well Driller's Name: _____ Date Drilled: _____

OPTIONAL:

Pump horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft.): _____

5. Extent of Use (as authorized by the permit):

Domestic _____ (No. of households) Stockwater _____ (No. and type of stock)

Irrigation _____ (No. of acres) Other Fish Propagation

6. Total rate and/or volume for which proof is submitted 0.80 cfs OR _____ acre/feet

7. Refer to the approval conditions on your permit and respond accordingly:

Measuring device: Required? ____ Yes X No Installed? ____ Yes ____ No

OR

Flow Measurement Port: Required? ____ Yes X No Installed? ____ Yes ____ No

8. Fee Enclosed: \$ 100.00 (See License Fee Schedule on back of Instruction Sheet)

9. Person to contact to accompany the Department representative during field examination of the water system.

Name Jim Blake Telephone No. (208) 756-2271

Address P.O. Box 1336, Highway 93 N, Salmon, Idaho 83467

10. The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

Date

Signature (and title, if on behalf of a company or organization)

12-10-92 Jim Blake Const Supervisor & D.F.G. 12-15-1993

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 72-07493

Proposed Priority: June 9, 1992

Maximum Diversion Rate:

0.80 CFS

This is to certify, that **STATE OF IDAHO**
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

has applied for a permit to appropriate water from:

SALMON RIVER

tributary of **SNAKE RIVER**

and a permit is **APPROVED** for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
FISH PROPAGATION	03/15 to 11/15	0.80 CFS

LOCATION OF POINT(S) OF DIVERSION:

SWSE , Sec. 16, Township 13N, Range 19E
CUSTER County

PLACE OF USE: FISH PROPAGATION
TWN RGE SEC

13N 19E 16 SWNE

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **November 1, 1993**.
2. Subject to all prior water rights.
3. Use of water under this right shall be non-consumptive.
4. The issuance of this right in no way grants any right-of-way or easement across the land of another.
5. Fish propagation use is for fish protection through the installation of a deflecting screen at a diversion canal entrance and a bypass pipe to flush the fish back to the Salmon River.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

28th day of September, 1992

[Signature]
for R. Keith Higginson, Director

MICROFILMED

DEC 10 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 72-7493

RECEIVED

JUN 15 1982

To appropriate the public waters of the State of Idaho

Department of Water Resources
Southern Region Office

1. Name of applicant Idaho Department of Fish and Game Phone 334-3700

Post office address 600 S. Walnut, P.O. Box 25, Boise, ID. 83707

2. Source of water supply Salmon River which is a tributary of Snake River

3. Location of point of diversion is _____ 1/4 of SW 1/4 of SE 1/4, Govt. Lot _____

Sec. 16 Township 13N Range 19E B.M. Cluster County; additional

points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 0.8 for fish propagation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 0.80 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Concrete structure in irrigation
ditch, screen and bypass pipe.

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

d. Is ground water with a temperature of greater than 90°F being sought? no

7. Time required for the completion of the works and application of the water to the proposed beneficial use is
Screen was constructed in 1975 and has operated since that time.
1 years (minimum 1 year).

RECEIVED

DEC 10 1992

8. Description of proposed uses (if irrigation only, go to item 9):

- Hydropower; show total feet of head and proposed capacity in KW. _____
- Stockwatering; list number and kind of livestock. _____
- Municipal; show name of municipality. _____
- Domestic; show number of households. _____
- Other; describe fully. Fish propagation - screen prevents fish from entering irrigation ditch and bypass pipe returns fish and water to river

9. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
13N	19E	16			H														

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. _____

11. a. Who owns the property at the point of diversion? see below

b. Who owns the land to be irrigated or place of use? see below

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. Easement agreement 5-28 filed at Custer Co. courthouse

on 4/30/58 pg. 543 & 544, Book 33 and pg. 140-142, Book 34, Ditch owners - L. & V. Wilson, O. & G. Laverly, J. & N. V. Pierson, P. Piva and sons.

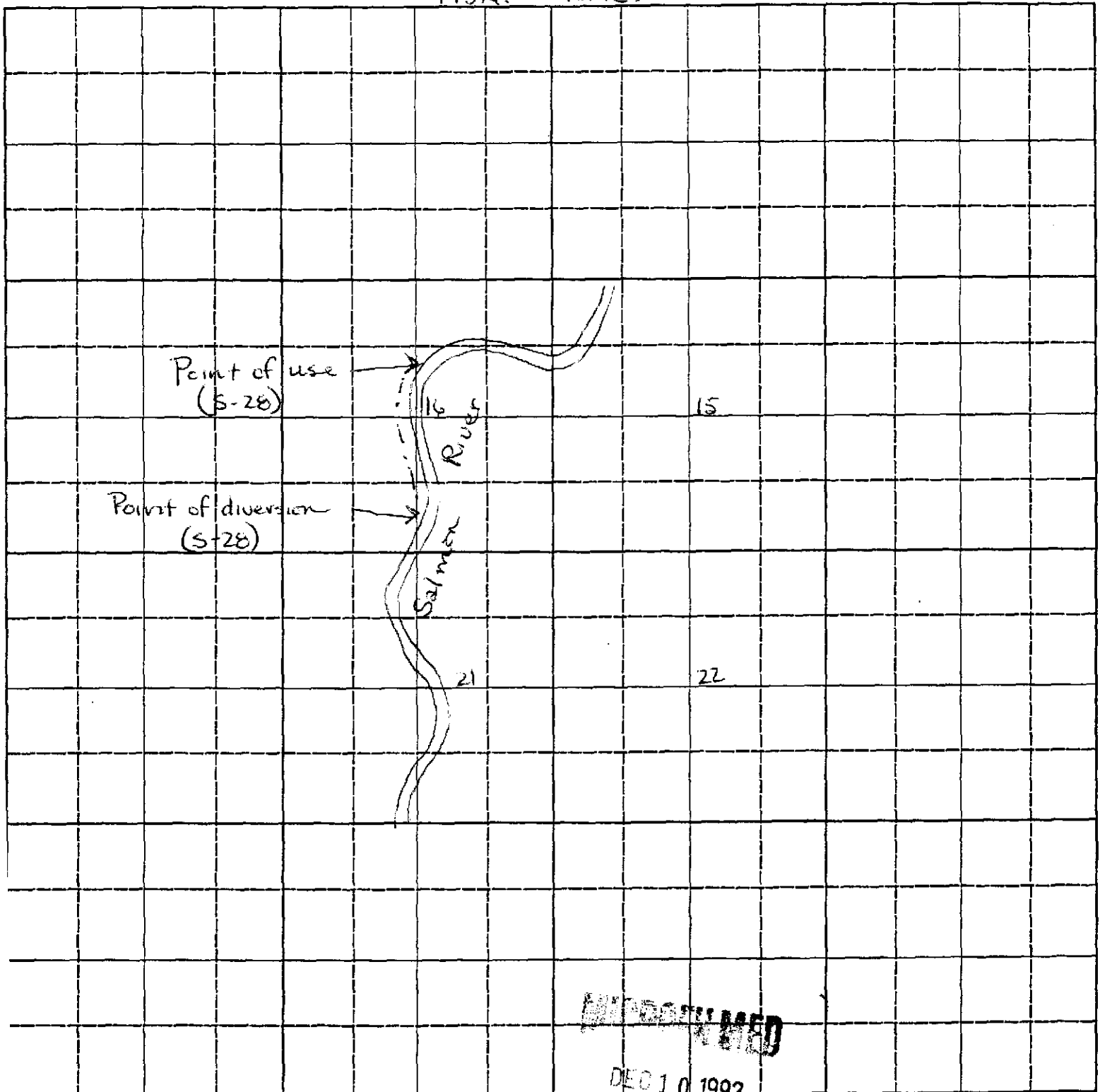
12. Remarks: _____

RECEIVED
DEC 10 1992

72-7493

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

T13N. R19E.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Cynthia Robertson IOFG
(Applicant)



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 28, 1994

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

RE: WATER RIGHT NO. 72-07493

Dear Water Right Holder(s):

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit. If you have any questions, please contact me within 10 days of receipt of this license.

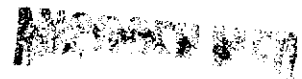
Sincerely,

A handwritten signature in black ink, appearing to read 'Jim Johnson', followed by a horizontal line.

JIM JOHNSON, Manager
Water Right Permits Section

JJ:dc

Enclosure



AUG 15 1994

WR0749NP
No. L72-07493

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 06/21/94
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	STATE OF IDAHO DEPT OF FISH & GAME PO BOX 25 BOISE ID 83707 (208) 334-3700	06/09/1992	FISH PROPAGATION	04-15 10-15	0.80 CFS	
TOTAL DIVERSION:					0.80 CFS	

Water Source: SALMON RIVER

Tributary to: SNAKE RIVER

Stage: LICENSE

Point(s) of Diversion Capacity: 6.30 CFS

Point(s) of Diversion: T13N R19E S16 Lot 06(SWSE)

CUSTER County

Place of use Legal Description for: FISH PROPAGATION

NE				NW				SW				SE												
T	R	S	: Lt Ac Lt Ac Lt Ac Lt Ac	:	NENE	NWNE	SWNE	SENE	:	NENW	NWNW	SWNW	SENW	:	NESW	NWSW	SWSW	SESW	:	NESE	NWSE	SWSE	SESE	:
13N	19E	16	:		:			02-F	:					:					:					:

Pou County: CUSTER

Other Water Rights Listing Overlapping Place(s) of use:
72-00182 72-04021

Conditions of Approval:

- 027 - Use of water under this right shall be non-consumptive.
- 004 - The issuance of this right in no way grants any right-of-way or easement across the land of another.

Remarks: Fish propagation use is for fish protection through the installation of a deflecting screen at a diversion canal entrance and a bypass pipe to flush the fish back to the Salmon River.
This right is subordinate to all existing water rights at the point of diversion.

Dates: App. Received: 06/09/1992 Priority Date: 06/09/1992
Proof Due Date: 11/01/1993 Proof Made Date: 01/13/1993
Exam Made Date: 08/18/1993 Exam Sent to S.O.: 06/16/1994
Licensed Date:

Misc: Water District Number: Field Exam Fee: R (Received)

Comments: Date: 09/22/1992 User-ID: MILLER Subject: MORATORIUM EXEMPTION
This permit falls within the acceptable parameters of the Salmon-Clearwater Moratorium.

Date: 09/22/1992 User-ID: MILLER Subject: SCREEN NUMBER

WR0749NP
No. L72-07493

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 06/21/94
PAGE: 2

Comments: Date: 09/22/1992 User-ID: MILLER Subject: SCREEN NUMBER
The screen number for this permit is S-28.

Audit: 06/21/94 BCHAPMAN 06/21/94 BCHAPMAN

LICENSE REVIEW CHECKLIST

PERMIT NO. 72-7493 DATE 6-21-94



NAME	Yes ☐ No ☒	Or Address Change?
PRIORITY DATE	☐ ☒	Advance? ☐ Advanced to: _____ Order to reinstate needed? _____ Incorrect fee for rate recommended? _____
SOURCE	☐ ☒	Changes or just clarification of originally intended source? _____ Notice of Intent to Void necessary? _____
POINT OF DIV	☐ ☒	Amendment needed? <u>Add GOV Lot #6</u> Overlaps? _____
PLACE OF USE	☐ ☒	Amendment needed? <u>Add GOV Lot #2</u> Overlaps? _____
DIV RATE	☐ ☒	Measurement Q = <u>6.3</u> Theoretical Q = _____
Capacity: _____ Combined rates exceed capacity _____ Permit/fee limits: <u>.80</u> Allowable: <u>.80 CFS</u>		
ANNUAL VOLUME	☐ ☒	Season of use: <u>4-15 to 10-15 (NEW)</u> Calculations: _____
USES	☐ ☒	Flow limit: _____ cfs x _____ x 1.9835 = _____
		Combined volumes exceed capacity/allowable _____
REMARKS	☒ ☒	Change in Nature of Use or additional uses? _____ Amendment necessary? _____
CONDITIONS	☒ ☒	Multiple p/d(s) in 1/4 1/4? _____ Other <u>Subordinating</u> <u>REMARK</u>
COMMENTS:	<u>Flow three only</u> <u>Season of use changed to current chart designation</u>	

RECOMMENDED

CFS

VOLUME

LICENSE ☒

FISH PROP

.80

1ST AMENDMENT LETTER _____

FINAL AMENDMENT LETTER _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JUN 17 1994

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 72-07493

1. Owner: State of Idaho - Dept. of Fish & Game Phone No. 334-3700

Current Address: 600 S. Walnut, P.O. Box 25 Boise 83707

2. Accompanied by: Mel Schulte, IDWR EXAM DATE: 8-18-93

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Salmon R. tributary to Sunk River

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE

2. Other water rights with the same point of diversion: Binai Ditch Assoc. - Numerous adj. claims

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	6		SW	SE	16	13W	19E	Custer	USGS Topo

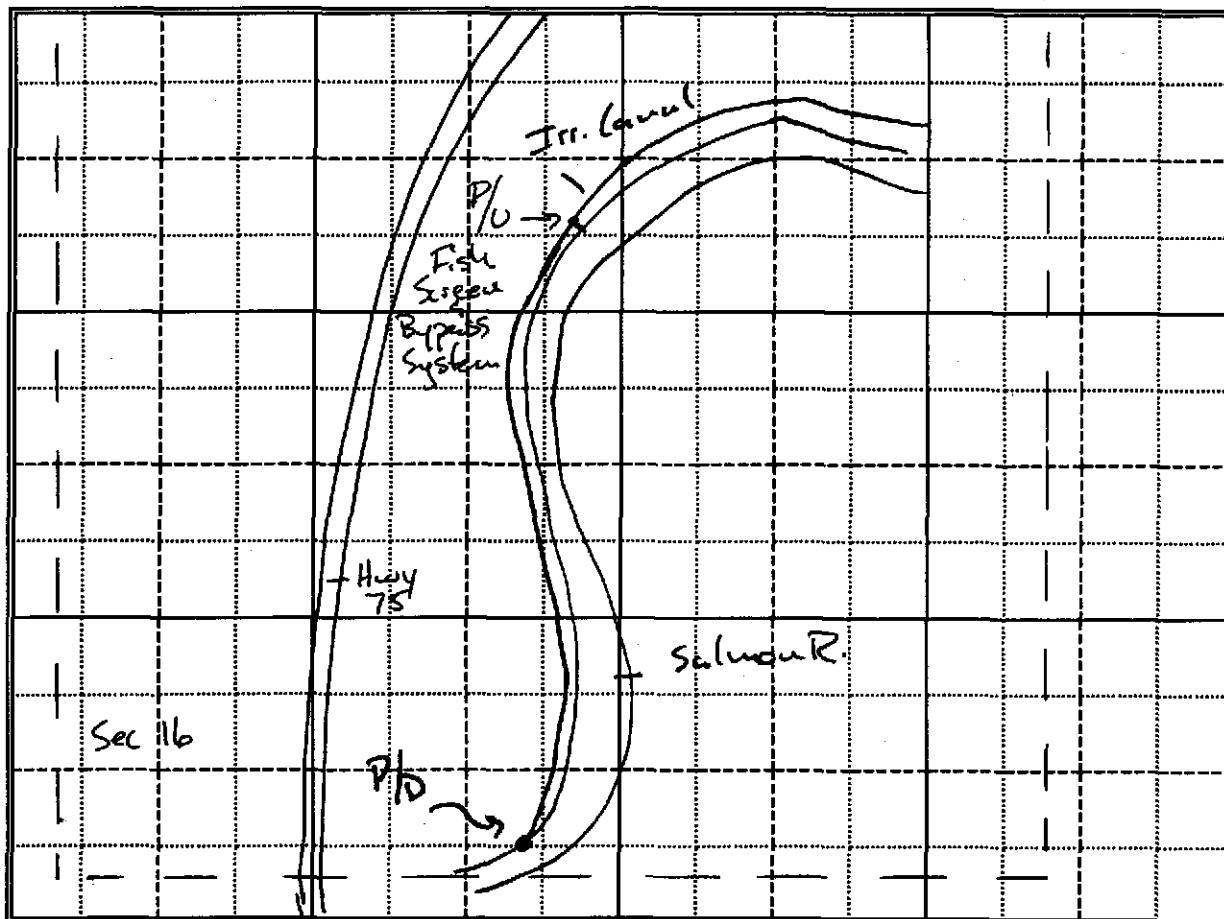
2. Place(s) of Use:

Indicate Method of Determination USGS Topo, Inspection

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13W	19E	16			H														H
					42														

AUG 15 1994

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

☒ Copy of USGS Quadrange 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: Measured the size of orifice when steel plate was set
on third screw from top - 0.6' wide by 1.2'

E. NARRATIVE/REMARKS/COMMENTS

This bypass system is very unique. A steel plate that adjusts vertically controls the inlet. The water flows from under the plate (acting like an orifice) along a 6" wide concrete trench. After the water travels through the concrete trench it enters a 18" corrugated pipe. The corrugated pipe travels 5' to 6' east directly into the Salmon R.

Because a tremendous amount of flow can be bypassed when the steel plate is adjusted vertically, it generates tremendous forces that are harmful to the fish. Therefore, the plate is set usually at the second or third screw from the top. The orifice was measured when the screw was set third from the top.

The H_2O water level from the water surface to the middle of the orifice was 3.2'.

The pipe was about 80 to 90% full at the time of the measurement.

The use of water shall be non-consumptive only.

This water right is subordinate to all existing water rights at the point of diversion.

Season of use is designed to comply with irrigation season.

Water returns to The Salmon River in The SW NE (Lot 2), 13N, 19E, 516.

Have conditions of permit approval been met? ☒ yes ☐ no

AUG 15 1994

☒ Additional Computation Sheets Attached

G. VOLUME CALCULATIONS

$$w/A$$
$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{10em}}$$
$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$
$$V = \text{Smaller of } V_{IB} \text{ and } V_{DB} =$$

For Non-consumptive Use Only

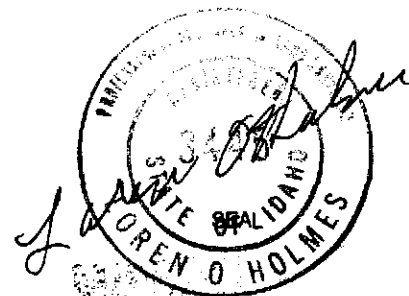
Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Fish Propagation	~~8-15~~	~~11-15~~	0.80 cfs	—
	* ~~4-15~~	~~10-15~~ OK		
	~~5-1~~	~~9-30~~		
Totals:			0.80 cfs	—

___ 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

Field Examiner's Name Brett Baum Date 8-24-93

Reviewer	Date
----------	------

* THAT SEASON is the current one for this area. ~~BC~~



AUG 15 1964

DATE: August 20, 1993
FROM: Brett Barry
TO: Files 72-074: 82,83,84,85,88,90,91,92,93,95
SUBJECT: Fish Screens - Measurement

In the Salmon River drainage basin, the IDFG has built a fish screen on almost every major irrigation canal that diverts water from a river or creek that possess a spawning fish population.

The IDFG filed adjudication claims on these fish screens but then withdrew some of their claims. These permits are taking the place of the withdrawn claims.

On August 16,17, and 18, I conducted the field examinations for the above water permits. Kelly Christenson or Mel Schulte also helped conduct the examination. Each fish screen, or permit, had a unique structure and bypass pipe. The water permit was for the diversion of water from the irrigation canal to the bypass pipe at the fish screen.

Most of the permits contained bypass pipes that were underground from the entrance at the fish screen to the outlet at the river or creek, therefore, a polysonic ultrasound measurement was usually not possible.

Loren Holmes, manager of Southern Regional office, suggested we survey the structure and obtain the difference in elevation between the water surfaces. This enables us to find the amount of head(energy per unit weight) consumed in the bypass pipe. Once the amount of head consumed is found, the flow can be calculated by estimating the relative roughness of the pipe or by estimating a Manning's coefficient.

The actual calculation involves using the Manning's equation for head loss in a pipe and the minor losses caused by inlets, outlets, and transitions, and the velocity head generated by an open discharge. This calculation was completed with the use of a program developed by Allen Merritt and myself on LOTUS 1-2-3.

The program is very useful for calculating the discharge on longer pipes. But, when the bypass pipes are very short, the minor losses control the head loss and cannot be estimated accurately enough for predictable results.

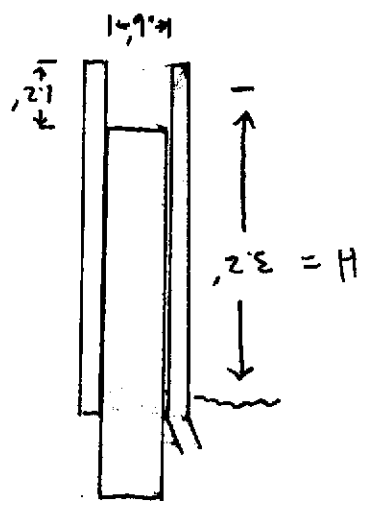
Therefore, on very short bypass pipes and where the discharge at the outlet of the bypass pipe is not full, a measurement was obtained by treating the system as an orifice with a certain amount of head.

AUG 15 1994

AUG 15 1994
 [Stamp]

P72-07493

Calculation



See attached page for orifice relationship
 & orifice coefficients
 $K = 0.613$ square
 edged
 $Q = CA\sqrt{2gH}$
 $Q = 0.61(0.72)\sqrt{2(32.2)(3.2')}$
 $Q = 6.3 \text{ cfs}$

145. Orifice Relations.—Formulas (45) and (46) can be used to develop a formula for flow through an orifice (a hole in the side or bottom of a container of water (fig. 107)). To find the velocity of flow in the orifice, use formula (46), $v = \sqrt{2gh}$. Then using the size or area of the hole, the quantity of water being discharged, Q , can be determined using formula

310

WATER MEASUREMENT MANUAL

(45), $Q = Av$. This can be accomplished in one step, however, if the two formulas are combined.

Inserting the value $\sqrt{2gh}$ for v in $Q = Av$ gives

$$Q = A\sqrt{2gh}, \quad (47)$$

the formula for the *theoretical* discharge through an orifice. This formula assumes that the water is frictionless and is an ideal fluid. Since water is not an ideal fluid, a correction must be made.

The jet of water, after passing through the orifice, continues to contract, and if the orifice edges are sharp, the jet will appear as shown in figure 108. The maximum jet contraction occurs at a distance of one-half the orifice diameter, or $d/2$, downstream from the sharp edge, and the cross-sectional area of the jet will be only about six-tenths of the area of the orifice. Accordingly, formula (47) must contain a coefficient, C , to accurately determine the quantity of water being discharged. Thus, in actual practice,

$$Q = CA\sqrt{2gh} \quad (48)$$

For a sharp-edged orifice where full contraction occurs, the coefficient is about 0.61, and the formula becomes

$$Q = 0.61A\sqrt{2gh}$$

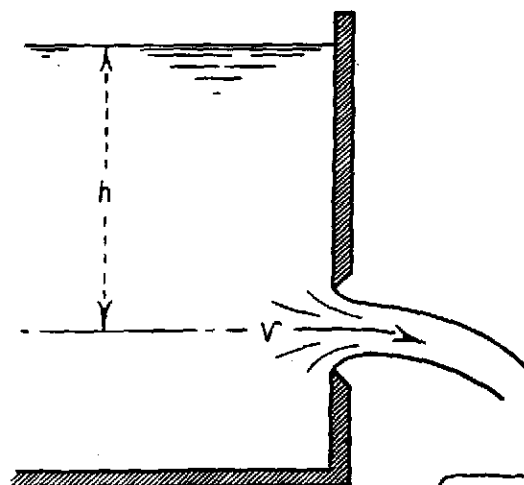


Figure 107.—Orifice flow.

RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	WELL ROUNDED
Length = $\frac{1}{2}$ to 1 DIA.		Stream Clear Sides	Length = 2 1/2 DIA.	Tube Flowing Full	
K = .52	K = .61	K = .61	K = .73	K = .82	K = .98

FIG. 69. Typical orifice coefficients.[†]

2-07493

Water Measurement Manual

United States Department of Interior

Bureau of Reclamation

Denver 1967

Govt Printing Office

Hydraulic Handbook

Colt Industries

Kansas City, Kansas

1979

p-203

5 1994

72-7493 SIL 13N 19E

"30"

(BAYHORSE)

PERMIT 72-7493 INIT BRB.
T. R. S. Q/Q
P/D 13W 19E 16 SWSE
SCALE
PHOTO ID.

RIVER

SALMON

AUG 15 1994

72-07493

AUG 15 1994

p72-07493

13N19E

08 LT04	08 LT02	08 LT02	08 LT01	05 LT04	05 LT03	05 LT02	05 LT01	04 LT04	04 LT02	04 LT02	04 LT01	03 LT04	03 LT03	03 LT02	03 LT01	02 LT04	02 LT03	02 LT02	02 LT01	01 LT04	01 LT03	01 LT02	01 LT01
08 SWNW	08 SENW	08 SWE	08 SENE	05 SWNW	05 SENW	05 SWE	05 SENE	04 SWNW	04 SENW	04 SWE	04 SENE	03 SWNW	03 SENW	03 SWE	03 SENE	02 SWNW	02 SENW	02 SWE	02 SENE	01 SWNW	01 SENW	01 SWE	01 SENE
08 HNW	08 NESW	08 HNE	08 NESE	05 HNW	05 NESW	05 HNE	05 NESE	04 HNW	04 NESW	04 HNE	04 NESE	03 HNW	03 NESW	03 HNE	03 NESE	02 HNW	02 NESW	02 HNE	02 NESE	01 HNW	01 NESW	01 HNE	01 NESE
08 SWW	08 SEW	08 SWE	08 SESE	05 SWW	05 SEW	05 SWE	05 SESE	04 SWW	04 SEW	04 SWE	04 SESE	03 SWW	03 SEW	03 SWE	03 SESE	02 SWW	02 SEW	02 SWE	02 SESE	01 SWW	01 SEW	01 SWE	01 SESE
07 HNW	07 NESW	07 HNE	07 NESE	06 HNW	06 NESW	06 HNE	06 NESE	05 HNW	05 NESW	05 HNE	05 NESE	04 HNW	04 NESW	04 HNE	04 NESE	03 HNW	03 NESW	03 HNE	03 NESE	02 HNW	02 NESW	02 HNE	02 NESE
07 SWW	07 SEW	07 SWE	07 SESE	06 SWW	06 SEW	06 SWE	06 SESE	05 SWW	05 SEW	05 SWE	05 SESE	04 SWW	04 SEW	04 SWE	04 SESE	03 SWW	03 SEW	03 SWE	03 SESE	02 SWW	02 SEW	02 SWE	02 SESE
07 HNW	07 NESW	07 HNE	07 NESE	06 HNW	06 NESW	06 HNE	06 NESE	05 HNW	05 NESW	05 HNE	05 NESE	04 HNW	04 NESW	04 HNE	04 NESE	03 HNW	03 NESW	03 HNE	03 NESE	02 HNW	02 NESW	02 HNE	02 NESE
07 SWW	07 SEW	07 SWE	07 SESE	06 SWW	06 SEW	06 SWE	06 SESE	05 SWW	05 SEW	05 SWE	05 SESE	04 SWW	04 SEW	04 SWE	04 SESE	03 SWW	03 SEW	03 SWE	03 SESE	02 SWW	02 SEW	02 SWE	02 SESE
18 HNW	18 NESW	18 HNE	18 NESE	17 HNW	17 NESW	17 HNE	17 NESE	16 HNW	16 NESW	16 HNE	16 NESE	15 HNW	15 NESW	15 HNE	15 NESE	14 HNW	14 NESW	14 HNE	14 NESE	13 HNW	13 NESW	13 HNE	13 NESE
18 SWW	18 SEW	18 SWE	18 SESE	17 SWW	17 SEW	17 SWE	17 SESE	16 SWW	16 SEW	16 SWE	16 SESE	15 SWW	15 SEW	15 SWE	15 SESE	14 SWW	14 SEW	14 SWE	14 SESE	13 SWW	13 SEW	13 SWE	13 SESE
18 HNW	18 NESW	18 HNE	18 NESE	17 HNW	17 NESW	17 HNE	17 NESE	16 HNW	16 NESW	16 HNE	16 NESE	15 HNW	15 NESW	15 HNE	15 NESE	14 HNW	14 NESW	14 HNE	14 NESE	13 HNW	13 NESW	13 HNE	13 NESE
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21 HNW	21 NESW	21 HNE	21 NESE	22 HNW	22 NESW	22 HNE	22 NESE	23 HNW	23 NESW	23 HNE	23 NESE	24 HNW	24 NESW	24 HNE	24 NESE	25 HNW	25 NESW	25 HNE	25 NESE	26 HNW	26 NESW	26 HNE	26 NESE
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21 SWW	21 SEW	21 SWE	21 SESE	22 SWW	22 SEW	22 SWE	22 SESE	23 SWW	23 SEW	23 SWE	23 SESE	24 SWW	24 SEW	24 SWE	24 SESE	25 SWW	25 SEW	25 SWE	25 SESE	26 SWW	26 SEW	26 SWE	26 SESE

AUG 15 1994



P72-07493
These photos were
taken on 8-18-93.

Screen screen

P/U is approximately
5/8 of a mile upstream
at a wing dam on
the Salmon R.

steel plate used vertically
to control discharge



water
flows through a 6" trench
until it runs to a 18" corrugated pipe



corrugated
was 5' x 6' ft
but got open
discharge into
the Salmon R.

January 15, 1993

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

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 72-07493

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

If you have questions concerning this matter, please feel free to contact the SOUTHERN Regional Office in Twin Falls at (208)736-3033.

Sincerely,

Karen L. Gustafson
Secretary/Records Manager

c: IDWR - Region

RECEIVED

JAN 15 1993



State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 30, 1992

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

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 72-07493

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

Enclosed is a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed is a form entitled "Proof of Beneficial Use". If your project is already completed you should complete and submit this form immediately.

Sincerely,

BRENDA L. MILLER
Water Resource Agent

BLM:cz

Enclosures

RECORDED

DEC 10 1992

Public Notices

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

71-07146

State of Idaho
Dept. of Fish and Game
P.O. Box 25
Boise, ID 83707

Source: Elk Creek Tributary:

Valley Creek

Diversion Pt: NENW Sec 16 T

11N R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/24/1990

In: Custer County

T11N R12E S16 NENW

71-07147

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Elk Creek Tributary:

Valley Creek

Diversion Pt: SESW Sec 11 T

11N R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/24/1990

In: Custer County

T11N R12E S11 SESW

71-07148

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: SESW Sec 3 T 11N

R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/24/1990

In: Custer County

T11N R12E S03 SESW

71-07149

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: Lot 2 (NWNE) Sec 5

T 08N R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T08N R14E S05 NWNE

71-07150

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: Lot 2 (NWNE) Sec 5

T 08N R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T08N R14E S05 NWNE

71-07151

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SESW Sec 10 T

07N R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T07N R14E S10 SESW

71-07152

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SESW Sec 3 T 07N

R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T07N R14E S03 SESW

71-07153

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SESE Sec 8 T 08N

R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T08N R14E S08 NESE

71-07154

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

The People's Right To Know

Source: Salmon River Tributary:

Snake River

Diversion Pt: NESE Sec 8 T 08N

R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T08N R14E S08 NESE

71-07155

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: SWNW Sec 3 T 11N

R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T11N R12E S03 SWNW

71-07156

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: SESE Sec 11 T 11N

R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T11N R12E S11 SESE

71-07157

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: NWNE Sec 13 T

11N R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T11N R12E S13 NWNE

71-07158

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: SENW Sec 13 T

11N R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T11N R12E S13 SENW

71-07159

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Valley Creek Tributary:

Salmon River

Diversion Pt: SENW Sec 13 T

11N R 12E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T11N R12E S13 SENW

71-07160

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SWSW Sec 26 T

07N R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T07N R14E S26 SWSW

71-07161

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SWSW Sec 26 T

07N R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T07N R14E S26 SWSW

71-07162

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: Lot 4 (SENE) Sec

22 T 10N R 13E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T10N R13E S22 SWNE

71-07163

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: Lot 4 (SENE) Sec

22 T 10N R 13E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T10N R13E S22 SWNE

71-07164

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SESE Sec 8 T 08N

R 14E In Custer County

Use: Fish propagation (.800 cfs)

Total Diversion: (.800 cfs)

Date Filed: 6/9/1992

In: Custer County

T08N R14E S08 NESE

71-07165

State of Idaho

Dept. of Fish and Game

P.O. Box 25

Boise, ID 83707

Source: Salmon River Tributary:

Snake River

Diversion Pt: SESE Sec 8 T 08N

R 14E In Custer County

Use:

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STATEMENT

AUG 24 1992



Department of Water Resources

Custer Publishing, Inc.

Phone 879-4445

P.O. Box 405

Challis, Idaho 83226

*Dept. of Water
222 Shoshone St. East
Twin Falls, Id 83301*

Job No.	Date	DESCRIPTION	Amount
544 lines	8-20-92	Notice of Application for Water Right 8/6/13/92 # 71-07146, 71-07147, 71-07148, 71-07149, 71-07150, 71-07151, 71-07152, 71-07153, 71-07154, 71-07155, 71-07156, 71-07157, 71-07158, 71-07159, 71-07161, 71-07162, 71-07163, 71-07164, 71-07317, 71-07318, 72-07482, 72-07483, 72-07484, 72-07485, 72-07486, 72-07487, 72-07488, 72-07489, 72-07490, 72-07491, 72-07492, 72-07493, 72-07494, 72-07495, 72-07496, 72-07497, 72-07498, 72-07499	\$312.80 OK MB 8-24-92

A finance charge of 1½ percent (annual percentage rate of 18%) with a minimum charge of 50¢ will be charged to all accounts not paid within 30 days of billing.

MICROFILMED

DEC 10 1992

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

72-07493

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

Source: SALMON RIVER

Tributary: SNAKE RIVER

Diversion Pt: SWSE Sec 16 T 13N R 19E in CUSTER County.

Use: FISH PROPAGATION (.800 CFS)
Total Diversion: (.800 CFS)

Date Filed: 6/ 9/1992

In: CUSTER County
T13N R19E S16 SWNE

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Southern Region, 222 Shoshone Street East, Twin Falls, ID 83301 on or before AUGUST 24, 1992.

R. KEITH HIGGINSON, Director

Published: 8/ 6/1992 & 8/13/1992

DEC 10 1992

DEC 10 1992

MIRRORED MED

Legal OK
8/6/92
MS
8-11-92
OK
8 cm.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region
222 Shoshone Street East
Twin Falls, ID 83301
(208)736-3033

JULY 8, 1992

CUSTER PUBLISHING COMPANY
PO BOX 405
CHALLIS, ID 83226

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before AUGUST 24, 1992.

Yours truly,

Mary Baldwin
Secretary/Office Coordinator

Enclosure

RECEIVED

DEC 10 1992



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

08-Jul-1992

R. KEITH HIGGINSON
Director

ATTN CINDY ROBERTSON
FISHERY BIOLOGIST
IDAHO FISH & GAME
PO BOX 25
BOISE ID 83707-0025

Re: Applications for Permit Nos. 71-07146 thru 71-07166,
72-07482 thru 72-07499

Dear Ms. Robertson:

The Department of Water Resources acknowledges receipt of 39 water right applications for permit. Each application has been assigned an identification number. Please refer to this number in all further correspondence. A computer produced proof report for each application is enclosed for your information and reference.

This office will be advertising the applications with points of diversion located within Custer County in the Challis Messenger on 8/6 & 8/13/92. Application No. 71-07160 will be advertised in the Wood River Journal on 8/5 & 8/12/92 because it has a point of diversion located within Blaine County. A period of ten days following the second publication will be allowed for the submittal of protests.

If an application is protested you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our State Office in about five weeks. State office personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A

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typical processing time for an unprotested application is about eight weeks.

Please feel free to contact this office if you have any questions regarding this procedure.

Very truly yours,

Mel Schulte
Water Right Agent

MS:MB

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IDAHO FISH & GAME

600 South Walnut
P.O. Box 25
Boise, ID 83707-0025

June 3, 1992

Mr. Jim Johnson
Idaho Department of Water Resources
STATEHOUSE MAIL
Boise, ID 83720

Re: Water Right Application for Fish Screens

Dear Mr. Johnson:

I have enclosed 33 applications for permit and a check for \$1,485.00 for fish screens in the Salmon River Basin. These applications are for nonconsumptive uses of water. The screens prevent fish from entering irrigation ditches and becoming stranded. The fish are shunted into bypass pipes near the screens and are returned back to the stream below the irrigation ditch.

I have had several conversations with Water Resources personnel regarding the need to apply for water right permits for these fish screens and have received conflicting responses. When I filed our Department's claims for the Snake River Basin Adjudication, I was told that we should file claims for existing fish screens and applications for permit for screens that were built after 1971. Conversely, since filing our adjudication claims, I have been told that because the use of the water is nonconsumptive and no additional water is diverted down the ditches to run the screens, we do not need a water right to use them.

Could you clarify for me whether or not we need to file applications for the fish screens? If we do not need to file the enclosed applications, please return them to me with the check. If we are required to file applications, then you have them and the payment for processing them. If I can provide you with any further information regarding these applications, please call me at 334-2597. Thank you in advance for your help in this matter.

Sincerely,

Cindy Robertson

Cindy Robertson
Fishery Biologist

CR:tlv

Enclosure

cc: Jim Blake, Salmon
Lee VanDeBogart, Engineering

Cecil D. Andrus / Governor
Jerry M. Conley / Director

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APPLICATIONS FOR WATER RIGHT PERMITS FOR FISH SCREENS
IN THE SALMON RIVER BASIN

<u>Screen Number</u>	<u>Cost</u>
EF-14 ✓	\$45.00
EF-20	45.00
EF-22	45.00
EF-24	45.00
EF-HC-3	45.00
S-1	45.00
S-8	45.00
S-20	45.00
S-21	45.00
S-21A	45.00
S-23	45.00
S-24	45.00
S-28	45.00
S-32	45.00
S-33	45.00
S-38	45.00
S-39	45.00
S-39A	45.00
S-40	45.00
S-41	45.00
S-42	45.00
S-43	45.00
S-44	45.00
S-45	45.00
S-47	45.00
S-PC-1	45.00
S-VC-1	45.00
S-VC-2	45.00
S-VC-3	45.00
S-VC-4	45.00
S-VC-6	45.00
S-WSC-1	45.00
S-WCS-2	45.00

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