

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 82-7187

Exam Date: 11/1/2007

1. Current Owner: UNITED STATES OF AMERICA ACTING THROUGH
USDI BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
1387 S VINNELL WAY
BOISE ID 83709-1657
(208)373-4000

2. Accompanied by: UNACCOMPANIED

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

SOUTH FORK CLEARWATER RIVER

TRIBUTARY

CLEARWATER 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: NONE

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:SOUTH FORK CLEARWATER RIVER SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29, Twp 29N, Rge 08E, B.M. IDAHO CountySOUTH FORK CLEARWATER RIVER SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29, Twp 29N, Rge 08E, B.M. IDAHO County

Method of Determination: GPS

2.

PLACE OF USE: FISH HABITAT

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
29N 08E 29													X				X

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements:

$$Q = \frac{(0.463)(0.83)(5\frac{1}{2})}{N}$$

$$Q = \frac{(0.463)(42.2)(0.01)}{0.021}$$

$$Q = 9.3 \text{ cfs}$$

$$9.3 \times 2 = 18.6 \text{ cfs}$$

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

$$5 \times 365 \times 1.9835 = 3620 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES WATER FROM THE SOUTH FORK CLEARWATER RIVER FOR FISH HABITAT. BLM HAS BUILT TWO SIDE CHANNELS THAT USE THE NATURAL FLOW OF THE RIVER. THE POINT OF DIVERSION FOR EACH CHANNEL IS A 4 FT. CULVERT THAT IS 10 FT. LONG. THE FLOW THROUGH THE CHANNELS DEPENDS ON THE FLOW OF THE RIVER. DURING THE FIELD EXAM THERE WAS NO WATER FLOWING THROUGH THE CHANNELS. THE CHANNELS ARE BUILT IN THE FLOOD PLAIN OF THE RIVER SO THEY CAN RUN COMPLETELY FULL. THE CHANNELS ARE CAPABLE OF CARRYING 5.0 CFS AND THE CULVERTS ARE CAPABLE OF CARRYING 5.0 CFS ALSO. A REQUEST WAS ASKED TO REMOVE THE MEASURING DEVICE CONDITION. THIS REQUEST IS REASONABLE DUE TO THE RIVER OVERFLOWING ITS BANKS AND FLOODING THE FLOODPLAIN ON A YEARLY BASIS. THIS WAS PERMITTED AS FISH PROPAGATION BUT THIS IS MORE FOR FISH TO REST IN AS HABITAT THAN A PLACE FOR FISH REARING.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FISH HABITAT	01/01 to 12/31	5.000 CFS	3,620.00 AF
<u>Totals:</u>		5.000 CFS	3,620.00 AF

2. Recommended Amendments

☐ 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

I. AUTHENTICATION

Field Examiner's Name [Signature] Date 6-19-08
 Reviewer [Signature] Date 9/18/8



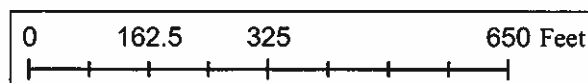
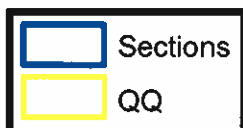
RECEIVED
JUN 16 2008
IDWR/North

South Fork Clearwater River, looking downriver towards lower side channel (underwater).
Located in T.29N., R.8E., Section 29. Photo taken May 19, 2008 (Craig Johnson).

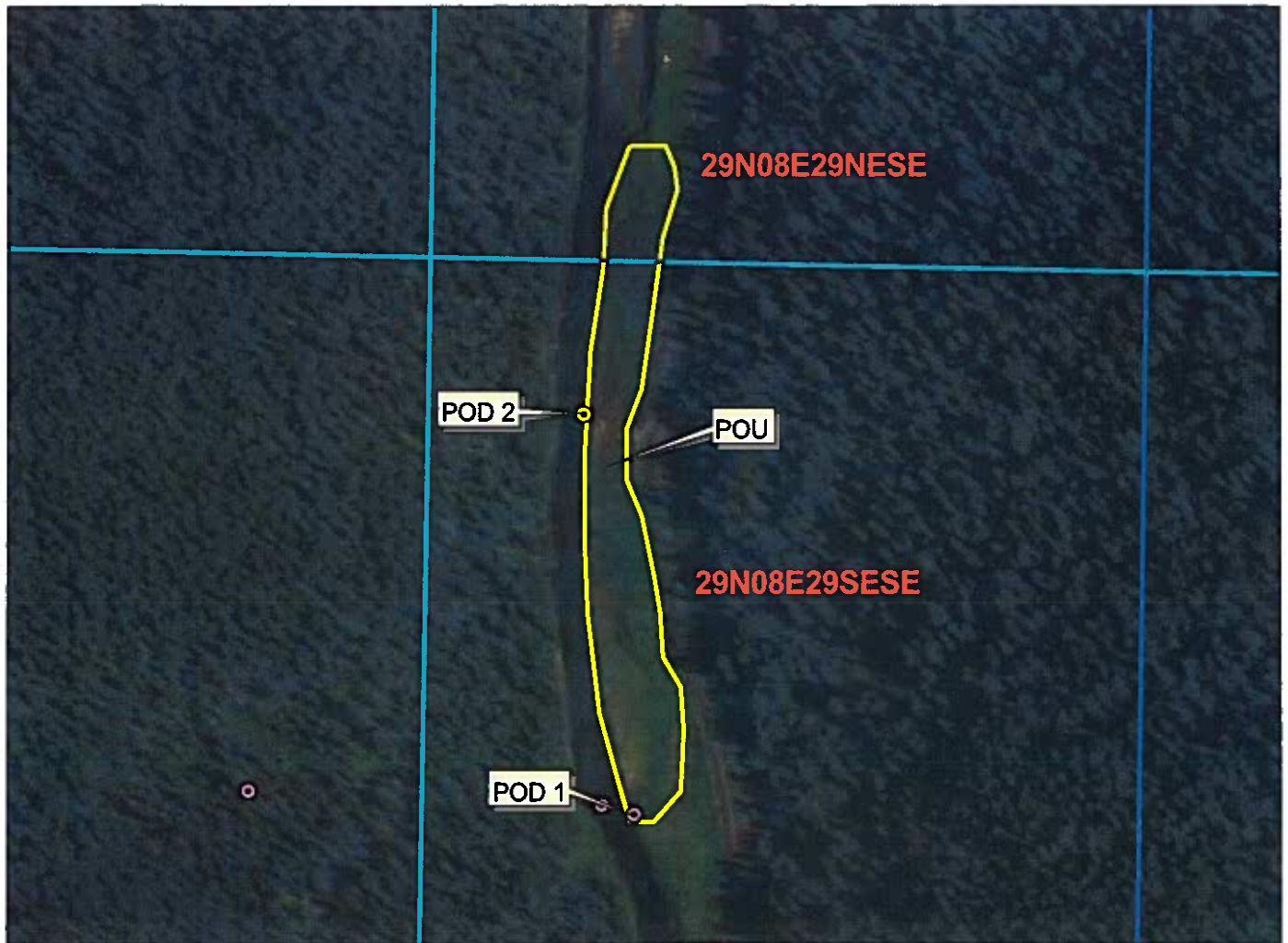


South Fork Clearwater River, looking upriver towards upper side channel area (underwater).
Located in T.29N., R.8E., Section 29. Photo taken May 19, 2008 (Craig Johnson).

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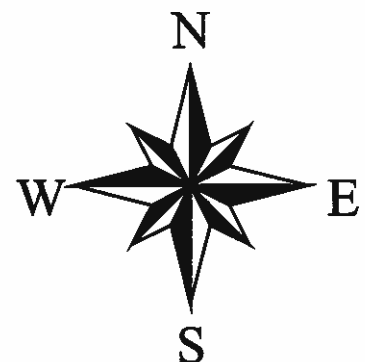


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0.1 0 0.1 0.2 Miles

-  Administrative BasinsAdminbas.shp
-  Township/Range
-  Sections
-  QQ
-  Right POD
-  Pou.shp





1 CHANNEL 2007



2 CHANNEL 2007



CHANNEL 1 INLET 2007



CHANNEL 2 INLET 2007



CHANNEL INLET 1990



CHANNEL INLET WITH
OVERFLOW



CHANNEL OUTLET 1990



CHANNEL OUTLET 2007



CHANNEL WITH
OVERFLOW



CONSTRUCTION OF
CHANNEL



LOWER CHANNEL 1 1990



LOWER CHANNEL 2 1990



SIGN FOR PROJECT AT
SITE



UPPER CHANNEL 1990

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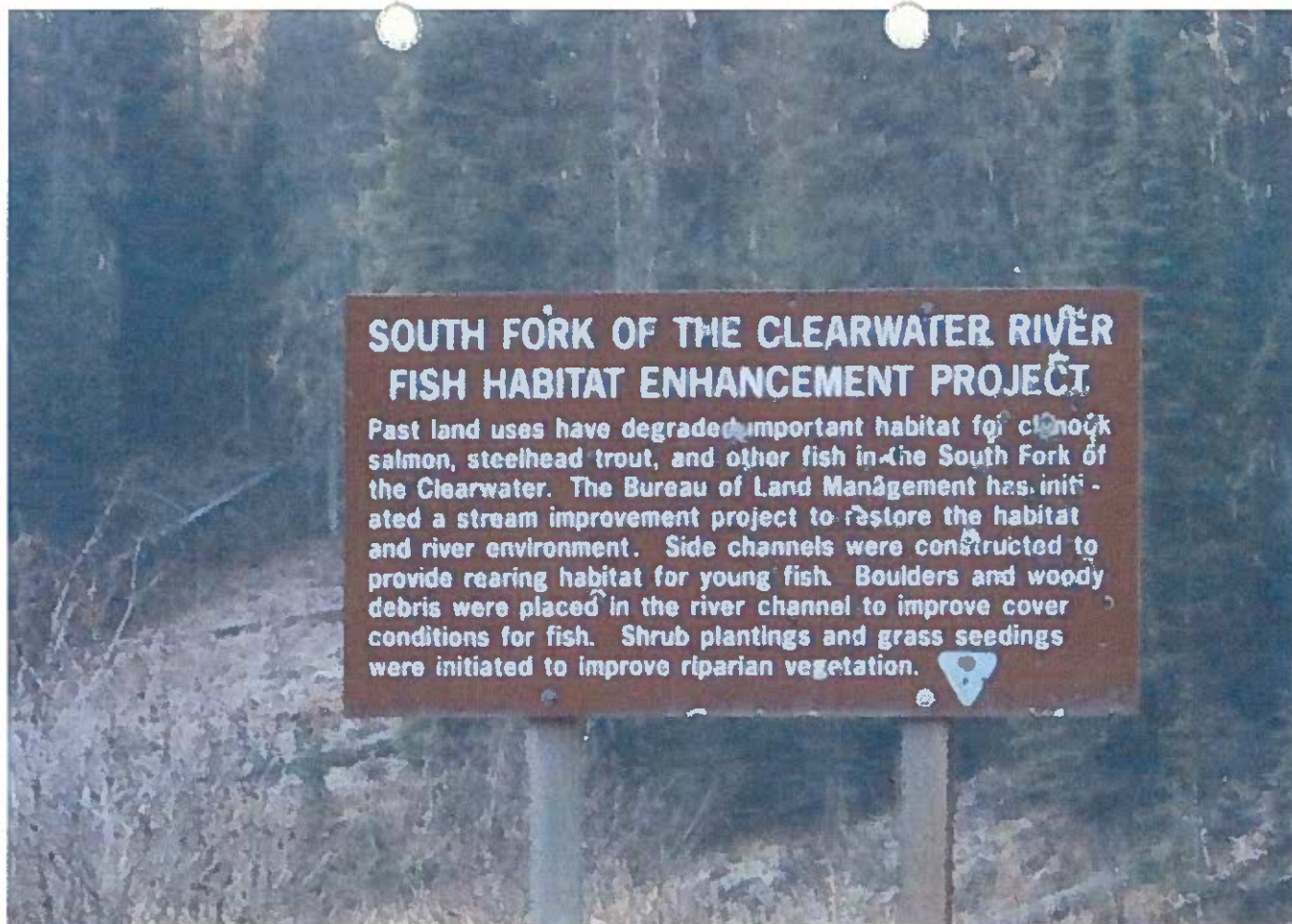
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SOUTH FORK OF THE CLEARWATER RIVER FISH HABITAT ENHANCEMENT PROJECT

Past land uses have degraded important habitat for chinook salmon, steelhead trout, and other fish in the South Fork of the Clearwater. The Bureau of Land Management has initiated a stream improvement project to restore the habitat and river environment. Side channels were constructed to provide rearing habitat for young fish. Boulders and woody debris were placed in the river channel to improve cover conditions for fish. Shrub plantings and grass seedings were initiated to improve riparian vegetation.



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