

**STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)**

OFF-CHANNEL SITE INVENTORY DATA

General Information:

| | |
|--|------------------------------------|
| Region: North Coast | Observer(s): Powell |
| River System: Sol Duc | Date: 1/27/00 |
| Site Identifier: S-329R-09 | WRIA: 20.0334A |
| River Mile Location: 7.5 | RB/LB: RB |
| Local Name: Unnamed | Trib. to: 20.0329 (Bear Cr) |
| Legal Description: NE¼ Sec16 T30N R11W | County: Clallam |
| Habitat Type: Valley wall tributary | |
| Landowner: (X) Federal () State () County () Other Government () Private - National Forest, USFS | |

Directions to site:

Starting at Forks (Tillicum Park), drive north on Highway 101 for 16.3 miles (mp 208) to West Twin Road (FS 30 Road). Take a left on this road and follow for 4.65 miles. This culvert crossing is S-329R-09.

Site Overview:

This stream has varied characteristics throughout the reaches that were surveyed. The lower reach to the powerlines is ~ 2% gradient. It lacks woody debris and associated pools/cover, and is characterized as a riffle channel. The stream is down cutting below the road crossing and has exposed some clay seams. There is an alder/brush canopy, and some areas of spawning gravel. Upstream of the powerlines, the channel becomes incised and slowly increases in gradient to a series of bedrock falls. Alder and brush are dominant but there are conifers on the steep side slopes which are sloughing in some areas. There are large, old woody debris/deep pools in this reach and some areas of spawning gravel. Bedrock becomes prominent and the survey ended at a series of large bedrock falls. Directly upstream of the falls, the channel becomes less entrenched and the gradient moderates. This stream can support some limited coho spawning opportunity to the falls.

Habitat Information:

Water source: Tributaries and surface runoff

Intermittent/year-around:

- Year-around

Estimated flows (cfs): 3.5

Water temperatures: did not take

Adjacent stream temperature: did not take

Other water observations:

Site area measurements: Indirect Direct Combination

Widths: Channel- 1.5 m - 3 m Ponds- NA Wetlands- NA

Depths: Channel- 10 cm - 30 cm Ponds- NA Wetlands- NA

Total length (includes ponds and wetlands): 675 m (did not survey upstream of the falls)

Total existing habitat area (est.): 1350 m²

Spawning area: 900 m²

Impounded area: 0 m²

Other rearing area: 450 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- Downstream of the road, the channel appears as a long continuous riffle. It has spawning gravel but it lacks resting pools. Also, the channel is downcutting and exposing some clay seams.
- Upstream of the powerlines, the channel has spawning gravel and woody debris/pools. The gradient is initially ~ 3% and gradually climbs to the bedrock area.
- This stream is occasionally monitored for spawning escapement from the egress to RM 0.3.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- Downstream of the road, the channel is down cutting. There is very little woody debris and associated pools/in-stream cover.
- Overhang and brush are the cover structures in the reach downstream of the powerlines. Alder is the prominent canopy.
- Upstream of the power lines, there are large woody debris pieces and deep pools.
- Alder is the dominant species and there are large conifers on the steep side slopes.
- The gradient maintains ~ 2% to the power lines. It then slowly increases to the bedrock falls. Upstream of the barrier falls, the gradient appears to moderate.

Describe unaccessible habitat:

- Upstream of the falls, the channel gradient appears to moderate < 4%.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

- This channel appears to have flashing flows at times.

Fish Information:

Site entry condition to (20.0329): Poor Fair Good

- There is open egress into Bear Creek.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- This stream is occasionally monitored for spawning escapement from the egress to RM 0.3.

Other species access and use: Chum Pink Sockeye Chinook Trout

- Trout can utilize this stream.

Habitat Improvements:

Enhancement opportunities:

- Culvert on the FS 30 Road is undersized but passable.

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

Aerials

Sketch

Maps

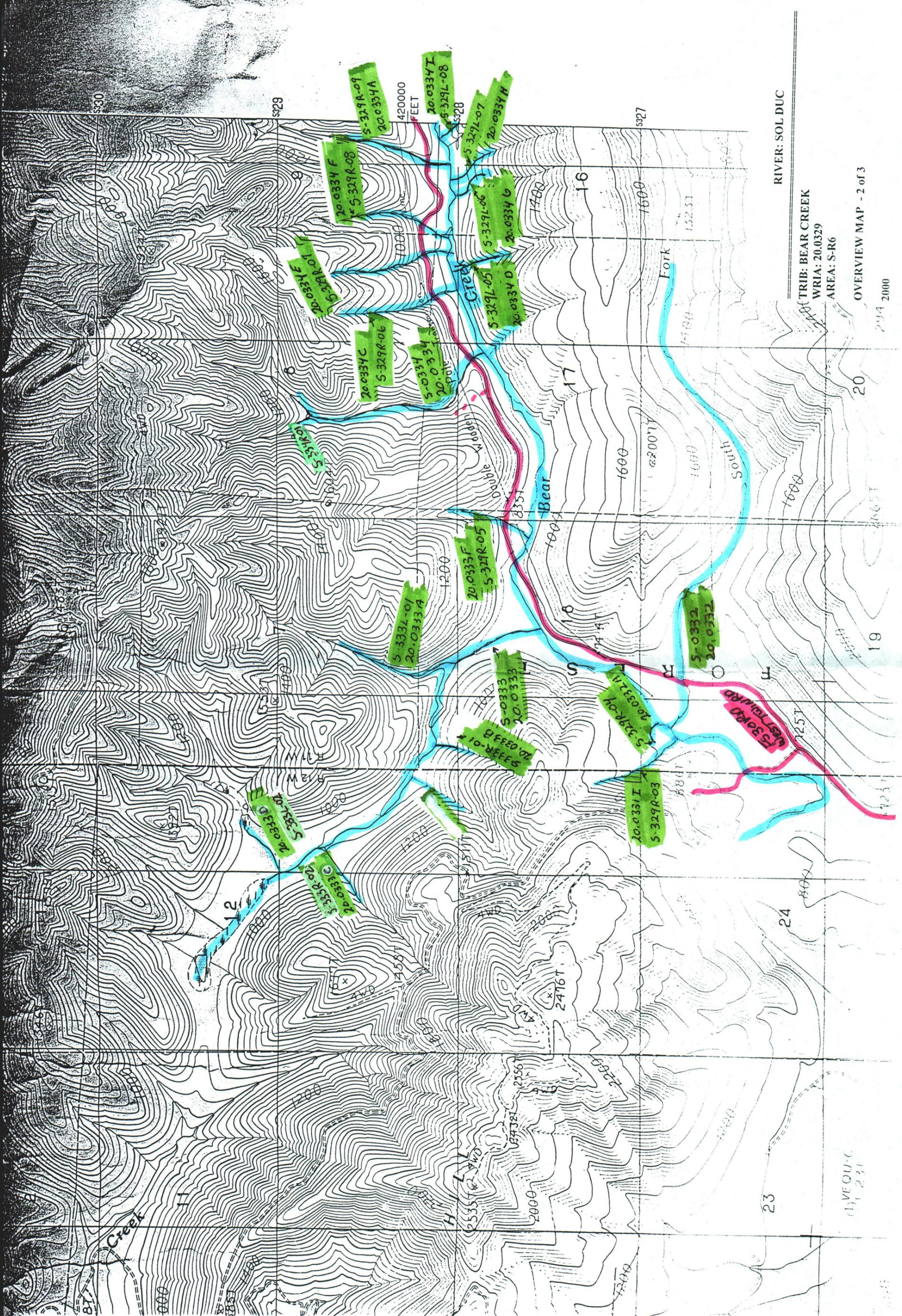
Culvert Report

Other references

Spawning surveys

Juvenile trapping

Fishway Report



RIVER: SOL DUC

TRIB: BEAR CREEK
WRIA: 20.0329
AREA: S-R6

OVERVIEW MAP - 2 of 3

2000

Ransro 2/02

(1) VEQU-C
1-231

20.0334 I
S-329L-08

20.0334 F
S-329R-08

20.0334 E
S-329L-07

20.0334 C
S-329R-06

20.0334 D
S-329L-06

20.0334 G
S-329L-06

20.0333 L
S-329R-05

20.0333 F
S-329R-05

20.0333 I
S-329R-04

20.0333 B
S-329R-04

20.0332 N
S-329R-03

20.0332 I
S-329R-03

20.0332 S
S-329R-02

20.0330 D
S-329L-01

20.0330 A
S-329R-02

S30

S29

S27

24

23

19

20

16

Creel

Double Wood

South Fork

Bear

Creel

42000
FEET