

**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: 2/29/00
Site Identifier: S-329R-01	WRIA: 20.0329A
River Mile Location: 0.7	RB/LB: RB
Local Name: Wahlgren Creek	Trib. to: Bear Cr (20.0329)
Legal Description: SE¼ Sec27 T30N R12W	County: Clallam
Habitat Type: Spring creek, terrace tributary	

Landowner: () Federal (X) State () County () Other Government (X) Private
- Washington Dept of Natural Resources
- Crown Pacific Timber Co.
- Rayonier Timber Operation Co.
- Small private land owners

Directions to site:

Starting at Forks (Tillicum Park), drive north on Highway 101 for 14.2 miles (mp 206) to Bear Creek Road. Take a left on this road and follow for 1 mile. The culvert crossing is the mid reach of Wahlgren Creek. To reach the mid section, alluvial area, follow Bear Creek Road for 0.5 miles. There is a logging road to the right. Follow the road down the hill to the temporary bridge crossing.

Site Overview:

This channel varies in habitat types and flows depending on the reach. The lower reach receives spring flows from the adjacent incising banks. There is a significant amount of old large woody debris in the channel. This area also has some spawning gravel and is monitored for adult escapements from the egress to RM 0.1. The gradient varies and appears to average ~ 5%. The lower-mid reach has alluvial characteristics with a large gravel accumulation and 2% gradient. Water subsurfaces in this area except during higher flows. The upper-mid reach is in an open field, surrounded by small land ownership (this area was not surveyed). The upper reach (upstream of Bear Creek Road) receives spring flows off the left bank terrace. It has a 12 - 14% gradient with a boulder strewn channel. The channel originates in a bowl-shaped configuration of the land. The RMZ is primarily alder/brush with conifer on the outer edges throughout most of the channel. The lower channel is primarily conifer and has recently been logged.

Habitat Information:

Water source: Springs, run-off and terrace flows

Intermittent/year-around:

- Intermittent

Estimated flows (cfs): variable: Lower reach 2+ Mid reach 0.5 Upper reach 0.75

Water temperatures: did not take

Adjacent stream temperature: did not take (20.0329)

Other water observations:

Site area measurements: Indirect Direct Combination

Widths: Channel- 1 m - 2.5 m Ponds- n/a Wetlands- n/a

Depths: Channel- 5 cm - 25 cm Ponds- n/a Wetlands- n/a

Total length (includes ponds and wetlands): ~1150 m

Total existing habitat area (est.): 2012 m²

Spawning area: 750 m²

Impounded area: 0 m²

Other rearing area: 1262 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- The lower reach has a constant water supply but experiences flushing flows at times. The gradient is ~ 5%.
- The lower reach does have areas of gravel. A spawner survey is occasionally conducted from the egress to RM 0.1.
- The lower-mid reach has large accumulations of gravel but also has a large silt component. Subsurface flows restrict this reach much of the year. Gradient is ~ 2%.
- The upper reach is a boulder-strewn channel with small pockets of gravel. Flows appear to be constant. Resident trout could utilize this area. Gradient is \geq 12%.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The lower reach is primarily an incised channel with numerous pieces of old large woody debris. This area recently had logging activity on both banks. The RMZ may add additional wood into the channel. This is presently, a conifer area.
- The lower mid reach has alluvial type characteristics: large gravel accumulations, and in some areas, an undefined channel. The riparian area is primarily deciduous tree species and brush mixed with conifers. There are some large woody debris pieces for pool formation but flows are a limiting factor.
- The upper mid reach appears to be a narrow, deep channel that flows through an open pasture land. Various land use practices would impact this channel. This reach was not surveyed.
- The upper reach gains in gradient and has a step/pool profile. There are numerous boulders in this reach. There are some old large woody debris pieces and overhanging banks. Alder, brush and conifer are the shade components providing 90% coverage.
- The upper most reach flows through a lower gradient section with an abundance of brush and blown down RMZ. This area was not surveyed.

Describe unaccessible habitat:

- Limiting flows in the mid reach make the upper channel inaccessible.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

- The lower channel appears to experience flushing flows.

Fish Information:

Site entry condition to (20.0329): Poor Fair Good

- Open egress to Bear Creek.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Occasional spawner surveys are conducted from the egress to RM 0.1.

Other species access and use: Chum Pink Sockeye Chinook Trout

- Resident trout probably utilize this channel.

Habitat Improvements:

Enhancement opportunities:

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

Aerials

Sketch

Maps

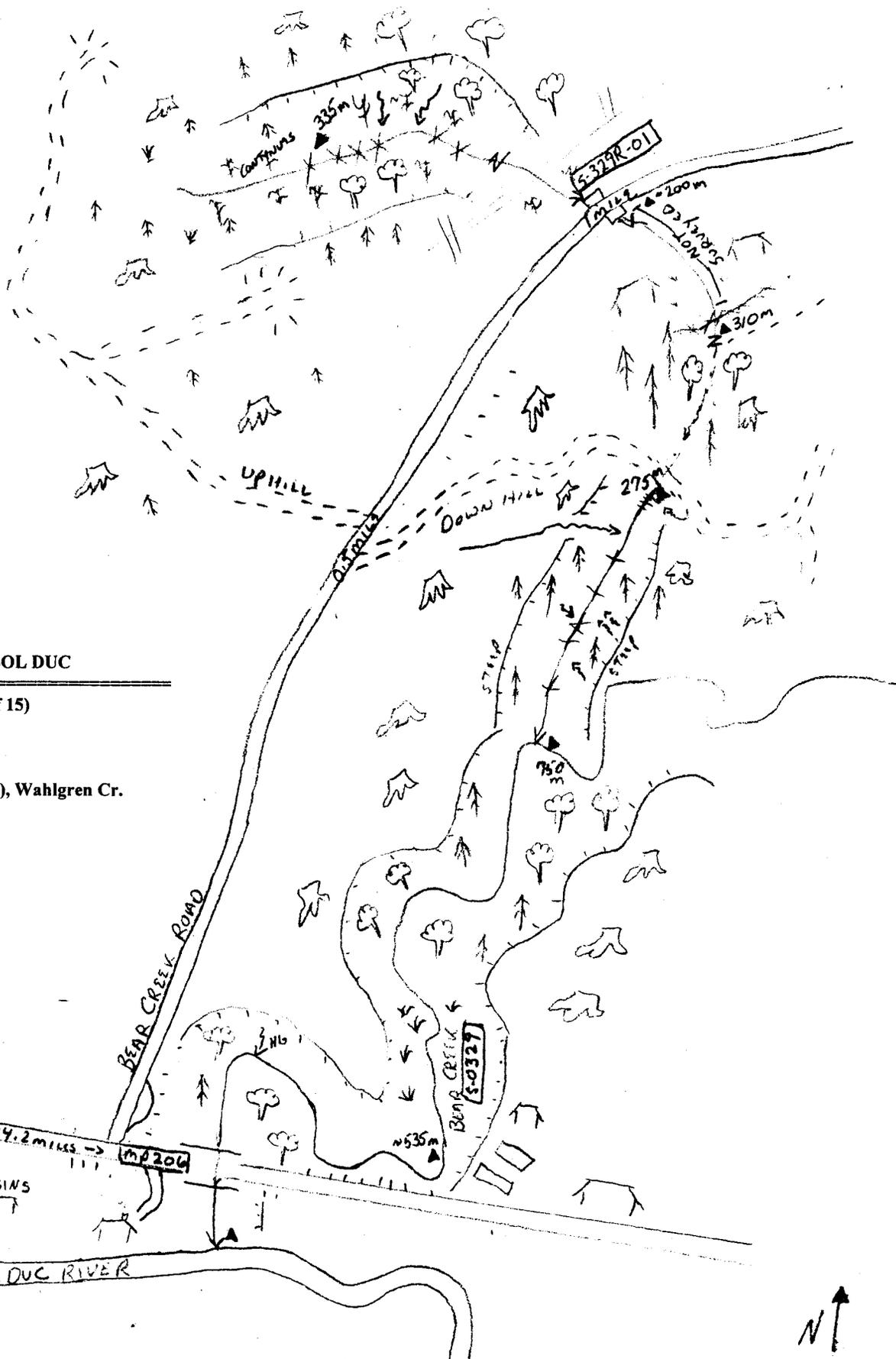
Culvert Report

Other references

Spawning surveys

Juvenile trapping

Fishway Report



RIVER: SOL DUC

TRIB: Bear Creek - 20.0329 (1 of 15)

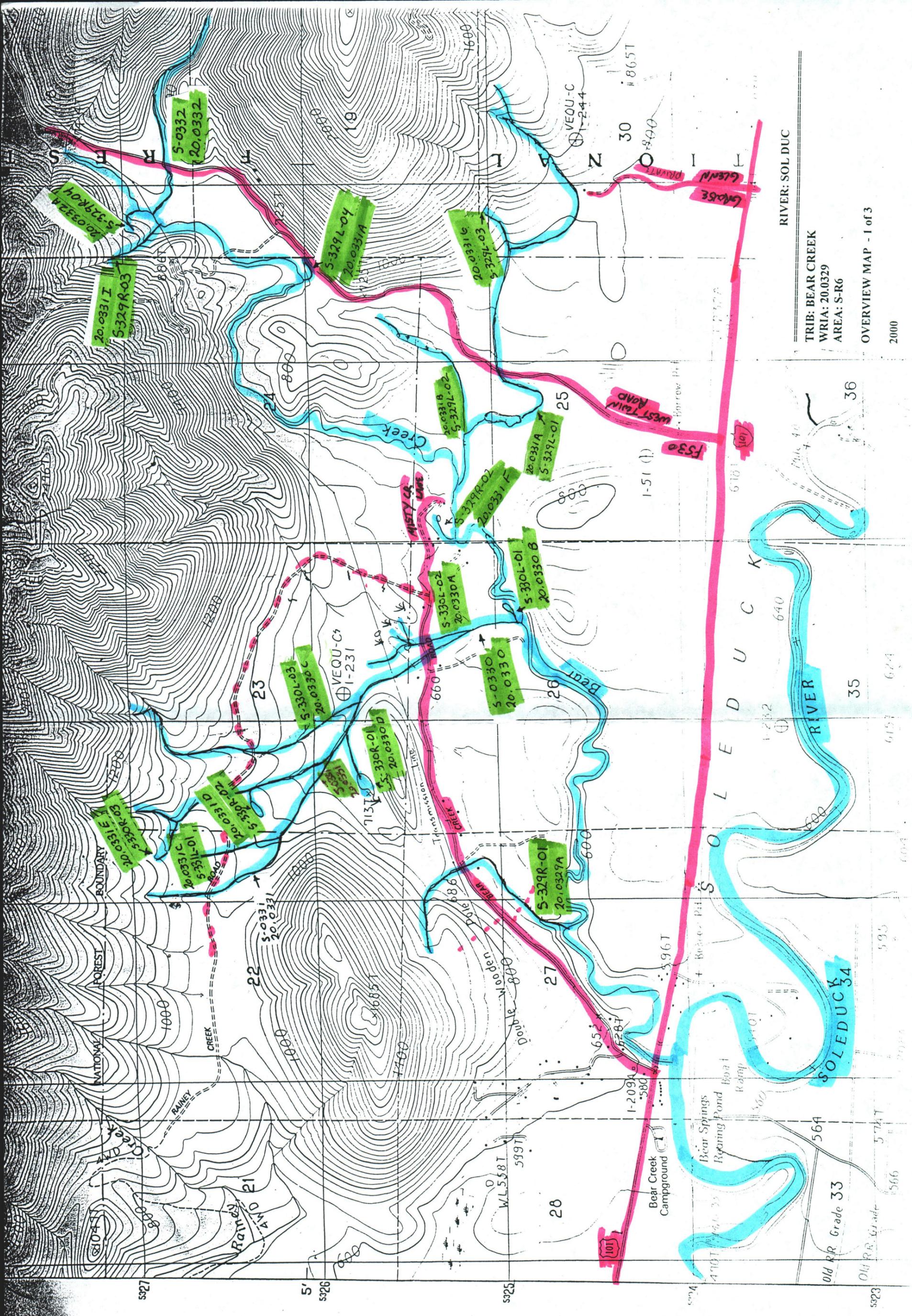
AREA: S-R6

SITES: S-0329, S-329R-01

WRIA: 20.0329, 20.0329A

NAMES: Bear Cr. (RM 0.0 - RM 0.8), Wahlgren Cr.

DATE: 2/00



RIVER: SOL DUC

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

OVERVIEW MAP - 1 of 3

2000

BOUNDARY

NATIONAL FOREST

RAINNEY CREEK

RAINEY CREEK

RAINEY CREEK

S327

S326

S325

S324

S323

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