

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): Nettin
River System: Sol Duc	Date: 4/1/98 - 4/21/98
Site Identifier: S-0318	WRIA: 20.0318
River Mile Location: 6.2 mi.	RB/LB: LB
Local Name: Unnamed	Trib. to: Lake Creek (20.0313)
Legal Description: SE ¼ Sec 18 T30N R12W	County: Clallam
Habitat Type: Lower Valley Wall Trib	

Landowner: (X) Federal (X) State () County () Other Government (X) Private

- Department of Natural Resources
- Possible Rayonier Timber Operations Company
- Possible Bloedel Timberlands Division.
- Possible K-Ply
- U.S. Forest Service

Directions to site:

North from Forks on highway 101 to MP 200.5. Turn left onto West Lake Pleasant Road, then bear to the right just past the bridge over Lake Creek. Continue for about 2.9 miles (the county road ends at 1.0 mile and the 9000 Line begins) to the 9089, the road to the right at the top of the hill. A key can be obtained at the Rayonier Timber Operations Company Office in Forks. Follow the road to the bottom of the hill, the bridge crosses S-0316 (20.0316). Continue to the end of the road. Follow a bearing of about S 80 E across the clearcut to the confluence of Lake Creek and 20.0318. The left bank tributary being 20.0318 (see comments for G.P.S. readings).

To access the upper reach. Go north from Forks to Sappho, turn left onto the Burnt Mountain Road (MP203.9). Just past the bridge over Beaver Creek, turn left and drive through the rock pit. **WATCH FOR EQUIPMENT CROSSING THE ROAD!!** Continue for about 1.6 miles to a bridge crossing. This is 20.0318.

Site Overview:

This is the largest tributary to Lake Creek and it has had excellent fish production. There are numerous reaches that offer spawning and rearing opportunities. The channel sources at about 800 feet in a narrow valley between the main ridge and a prominent hill. It also receives water from upper valley wall tributaries that drain the 1800 foot ridge. It then drops quickly to about 600 feet, where the gradient moderates to about 7% or less. The channel continues at that gradient, flowing in U-shaped valley for the next 1.5 miles to Lake Creek. It drains about 800 acres of commercial forest which has been mostly harvested around the turn of the twentieth century. At this time, there is less than 50 acres of second rotation logging in the drainage. There is an adequate RMZ from Lake Creek to the source, except for 300 meters in the lower reach. Past beaver activity has limited tree growth and caused extensive braiding of the channel in this section. Deciduous tree species are dominant along the channel but there are areas of mostly conifer. There are old, mature conifers on the section of US Forest Service land.

Habitat Information:

Water source: Springs, terrace, upper and lower valley wall tributaries.

Intermittent/year-around: Year-around

Estimated flows (cfs): Lower end: 2.0 - 4.0 Upper end: 1.0 - 2.0

Water temperatures: Lower end: 5.5°C Upper end: 7.0°C
-On 4/21/98 the reach from the bridge to the source was 7.5°C

Adjacent stream temperature (Lake Creek): 4.5°C

Other water observations: Clearwater

Site area measurements: Indirect Direct Combination

Widths: Channel- 3.0 - 6.0 m Pond- NA Wetlands- NA

Depths: Channel- 10 - 120 cm Pond- NA Wetlands- NA

Total length estimated (includes ponds and wetlands): 1.7 miles

Total existing habitat area (est.): 14,045 m²

Spawning area: 4,800 m² Tributaries: 45 m² Total: 4845 m²

Impounded area: 00 m² Tributaries: 200 m² Total: 200 m²

Other rearing area: 7,200 m² Tributaries: 1800 m² Total: 9,000 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- Good grade of gravel throughout the stream.
- Spawning area has a gradient less then 7%.
- Where the gradient is greater then 7%, there is good spawning conditions for trout.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The only slack water associated with this channel is in the deeper pools.
- Ninety five percent of the channel is well shaded by conifer and alder.
- Fair amount of woody debris in the channel. Some wood over the channel.
- Overhanging brush provides some cover along the banks.

Describe unaccessible habitat:

- There is not any usable habitat above the gradient barrier on the mainstem.
- There is some unaccessible habitat in the tributaries. See individual site reports.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- There are no wetlands associated with the mainstem. There are side slope wetlands and forested wetlands associated with the tributaries. See individual site reports for data.

Flooding potential: Low Medium High

- This system has high flows during rainy periods and can be susceptible to rain-on-snow events.

Fish Information:

Site entry condition to Lake Creek: Poor Fair Good

- Open and accessible.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- 0+ and 1+ coho fry were observed up to within 50 m of the source.

- There is a supplemental spawner index on this stream.

- Since 1993, the number of coho adults seen has varied from 25 to 105 during that survey.

- Spawner survey data is available from the Quileute tribe and WDFW.

Other species access and use: Chum Pink Sockeye Chinook Trout

- It is assumed that some of the fry observed were trout and possibly sockeye.

- 15 - 20 cm trout was observed near the source.

- There were 13 redds observed above the bridge and they were spread uniformly through out the reach.

- It is assumed that some of the redds observed in the upper reach were trout.

- The channel is open and available to all species.

Habitat Improvements:

Enhancement opportunities:

Possible project type:

- Maintain the integrity of the stream.

Equipment access: No access

Additional Comments:

- G.P.S. readings for the confluence are: East 1,030,564.2 ft; North 1,071,721.9 ft

- G.P.S. readings for the bridge are: East 1,074,812 ft; North 1,032,619 ft.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

Aerials

Sketch

Maps

Culvert Report

Other references

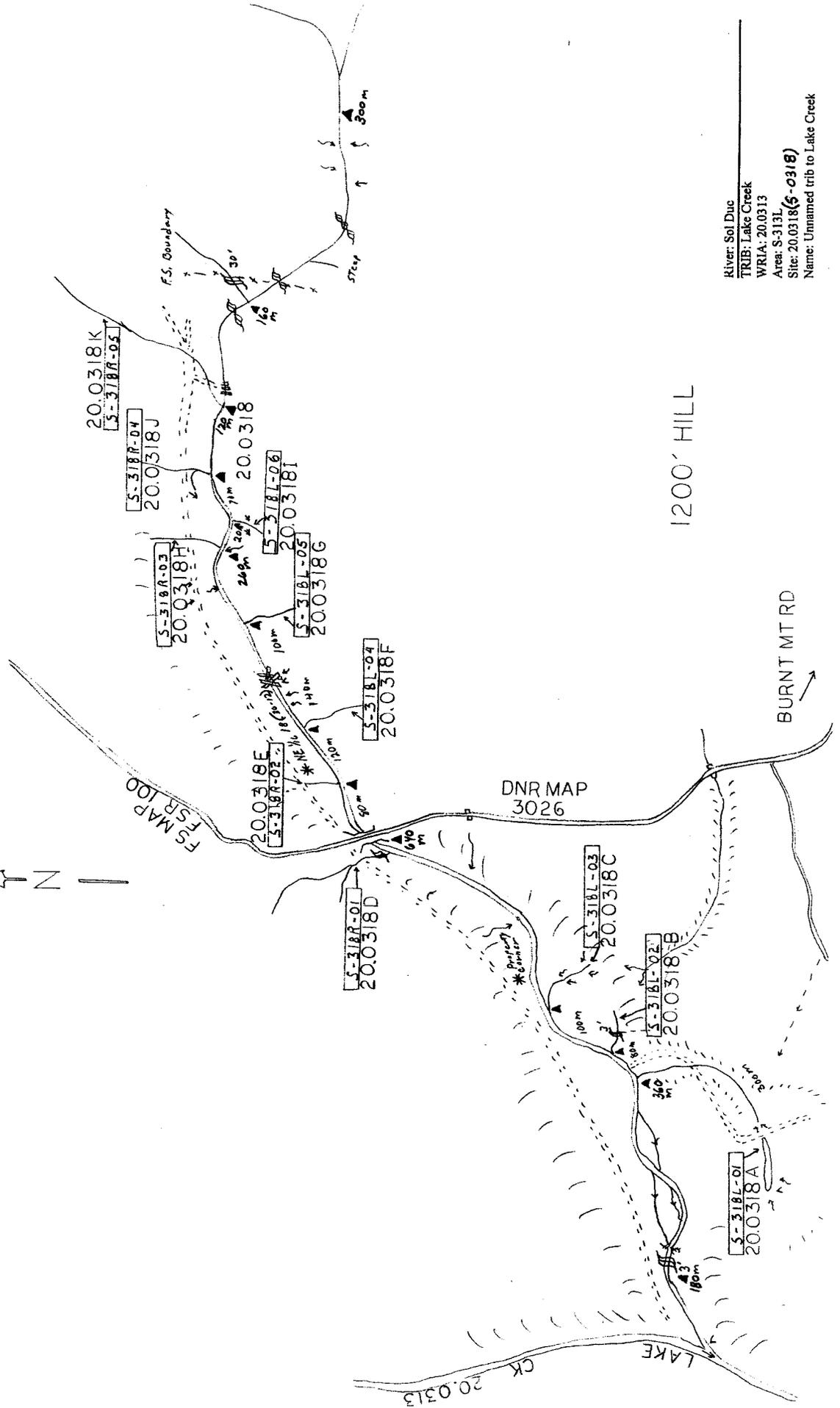
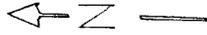
Spawning surveys

Juvenile trapping

Fishway Report

1800' RIDGE

1200' HILL



River: Sol Duc
 TRIB: Lake Creek
 WRIA: 20.0313
 Area: S-313L
 Site: 20.0318(S-0318)
 Name: Unnamed trib to Lake Creek

