

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:**

<b>Region:</b> North Coast	<b>Observer(s):</b> Nettin
<b>River System:</b> Sol Duc	<b>Date:</b> 3/20/98
<b>Site Identifier:</b> S-313L-07	<b>WRIA:</b> 20.0313MM (P)
<b>River Mile Location:</b> 4.8	<b>RB/LB:</b> LS (Left Shore)
<b>Local Name:</b> Bone Slough	<b>Trib. to:</b> Lake Pleasant
<b>Legal Description:</b> SE¼ Sec24 T30N R13W	<b>County:</b> Clallam
<b>Habitat Type:</b> Terrace Tributary	
<b>Landowner:</b> <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Possibly Rayonier Timber Operations Company - Possibly Department of Natural Resources	

**Directions to site:**

North from Forks (Hwy 101) to MP 202, turn left onto East Lake Pleasant Road and then 1.5 mi. to the end of the county road. A gate will be encountered. The key can be obtained at the Rayonier Timber Operations Company office in Forks. About a tenth of a mile beyond the gate, there is a trail off to the left (marked with flagging). Follow the trail to the valley floor past the large spruce trees until S-313L-07 is encountered.

**Site Overview:**

This terrace tributary flows between Lake Creek and the toe of the valley wall. It is low gradient and is characterized as marshy. There are numerous beaver dams, however, most of them are old and inactive. There is an adequate RMZ that provides shade for about 80% of the channel. Large numbers of 0+ coho fry were observed in the lower reach. This appears to be an excellent off channel, over winter rearing area for coho.

**Habitat Information:**

**Water source:** Water type 4 and 5 valley wall tribs, springs and surface runoff

**Intermittent/year-around:** Unknown, probably intermittent.

**Estimated flows (cfs):** Lower end: 0.1 - 0.2 Upper end: 0.05 - 0.1

**Water temperatures:** Lower end: 8.0°C Upper end: 7.5°C

**Adjacent lake temperature:** 10.0°C

**Other water observations:** Slight tannic color, mineral residue in places

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 1.0 - 4.0 m Ponds- 10 - 25 m Wetlands- 30 m

Depths: Channel- 05 -30 cm Ponds- 30 - 90 cm Wetlands- 30 - 90 cm

Total length surveyed (includes ponds and wetlands): 600 m

**Total existing habitat area (est.):** 1,900 m<sup>2</sup>

Spawning area: 0 m<sup>2</sup>

Impounded area: 800 m<sup>2</sup>

Other rearing area: 1,100 m<sup>2</sup>

**Spawning Habitat conditions:** (X) None ( ) Poor ( ) Fair ( ) Good ( ) Excellent

**Describe spawning habitat:** NA

**Rearing habitat conditions:** ( ) None ( ) Poor ( ) Fair ( ) Good (X) Excellent

**Describe pond and other rearing habitat:**

- The entire system is low gradient.
- Numerous beaver ponds with woody debris, sedges and overhanging brush.
- Good cover is provided by woody debris.
- Good overhead shade is provided by spruce, cedar, alder, salmonberry and other brush
- Areas where old beaver dams have failed are well vegetated with rushes and sedges.

**Describe inaccessible habitat:** NA

**Describe wetland:** ( ) Bog (X) Marsh (X) Scrub-shrub Wetland (X) Forested Wetland

- This entire channel is draining through a wooded or marsh wetland. It changes from dense shrubs such as pacific ninebark, willow, douglas spirea, willow, salmonberry to scattered spruce, cedar, alder; to open marsh with slough sedge, soft rush, skunk cabbage, and small fruited bullrush.

**Flooding potential:** ( ) Low (X) Medium ( ) High

- Lower reach may flood when the lake is high
- Does not show evidence of mainstem overbank storage flowing down this channel.

**Fish Information:**

**Site entry condition to Lake Pleasant:** ( ) Poor ( ) Fair (X) Good

- The channel enters the lake through a scrub-shrub wetland area that has a large amount of woody debris. The raft of woody debris extends out into the lake. When the lake is full, the wood is floating and provides excellent cover.

**Coho access and use:**

Juvenile- ( ) Unknown ( ) None ( ) Poor (X) Fair ( ) Good

Adult- ( ) Unknown (X) None ( ) Poor ( ) Fair ( ) Good

- During the survey, 0+ coho fry were observed in most slack water pools in the lower reach.

**Other species access and use:** ( ) Chum ( ) Pink ( ) Sockeye ( ) Chinook (X) Trout

- Other species were not observed during the survey. The egress is open and available to them

**Habitat Improvements:**

**Enhancement opportunities:**

- Maintain integrity of the channel

**Additional Comments:**

**Attachments Available:**

**Contact respective SSHEAR habitat biologist for the following checked items:**

- |                      |                      |                       |                    |
|----------------------|----------------------|-----------------------|--------------------|
| ( ) Aerials          | (X) Sketch           | (X) Maps              | ( ) Culvert Report |
| ( ) Other references | ( ) Spawning surveys | ( ) Juvenile trapping | ( ) Fishway Report |

**NORTH COAST OFF CHANNEL SURVEY**  
**SUBSEQUENT SITE EVALUATION FORM**

River System: Sol Duc

Site No.: S-313L-07

Site Name: Bone Slough

WRIA: 20.0313CC (P)

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DATE: 1/26/99

OBSERVER: Darrow/Nettnin

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT		0+	
						RBT	CUTT		
1	1/26	5.5°C	1/27	5.0°C	2	0	0	0	0
2	1/26	5.5°C	1/27	5.0°C	3	0	0	0	3
3	1/26	5.5°C	1/27	5.0°C	0	0	0	0	3
TOTALS:					5	0	0	0	6

**COMMENTS:**

-Trap 1 was placed in the lower third of the channel at a depth of 40 - 45 cm. Instream cover provided by woody debris and aquatic vegetation and overhead shade and cover is provided by scattered mature alder and conifer.

-Trap 2 was placed in the middle third of the channel at a depth of 30 - 40 cm. Instream cover provided by woody debris and aquatic vegetation and overhead shade and cover is provided by scattered mature alder and conifer.

-Trap 3 was placed in the upper third of the channel at a depth of 60 - 70 cm. Instream cover provided by woody debris and aquatic vegetation and overhead shade and cover is provided by scattered mature alder and conifer.

-All traps were baited with salmon roe.



CREEK

20.0313 MM  
S-313L-07

40 m

100 m

70

50 m

250 m

LAKE

Trail

~0.10 mi

BEAVER HILL

EAST LAKE PLEASANT ROAD

1.5 mi

River: Sol Duc  
TRIB: Lake Creek  
WRIA: 20.0313  
Area: S-0313L  
Site: S-313L-07  
Name: Bone Slough

Map date: 4/99

LAKE PLEASANT



