

STATE OF WASHINGTON  
**DEPARTMENT OF FISH & WILDLIFE**  
**HABITAT PROGRAM**  
Salmonid Screening, Habitat Enhancement &  
Restoration Division (SSHEAR)

**OFF-CHANNEL SITE INVENTORY DATA**

**General Information:**

<b>Region:</b> North Coast	<b>Observer(s):</b> Powell
<b>River System:</b> Sol Duc River	<b>Date:</b> 2/15/96
<b>Site Identifier:</b> S-0303	<b>WRIA:</b> 20.0303
<b>River Mile Location:</b> 14.5 mi	<b>RB/LB:</b> LB
<b>Local Name:</b> Philbert's	<b>Trib. to:</b> 20.0096
<b>Legal Description:</b> NE¼ Sec1 T28N R14W	<b>County:</b> Clallam

**Habitat Type:** Terrace tributary

**Landowner:**  Federal  State  County  Other Government  Private  
- Washington Department of Natural Resources  
- Rayoinier Timber Co.

**Directions to site:** Head north from Forks on Hwy 101. Turn left just beyond mp 193 (1.0 mi. north of Forks) onto the La Push Rd. Proceed west on La Push Rd about 3.1 miles. Turn right onto the Quillayute Rd. and take the first right into the Rayoinier Timber Co. yard. Take an immediate left onto a concrete bridge that crosses the Sol Duc River. There is a gate on this bridge (all keys can be obtained, or arrangements can be made at the ROTC office). Follow this road (RY-5000) for 0.1 mi after the bridge crossing, to a right spur with another locked gate. Follow this road for 1.4 mi to a failed bridge crossing; this is the lower reach of S-0303. The upper reach of this system can be accessed by heading north from Forks on HWY 101 about 3.1 mi. Turn left (west) about 0.1 mi. beyond MP 195 onto D-2000. Proceed west on D-2000 for 2.8 mi to D-4000. Turn left on the D-4000 and follow for 0.8 mi. The stream paralleling the road is S-0303.

**Site Overview:** This large system offers both spawning and rearing opportunities. The upper and lower reaches have numerous high gradient tributaries while the mid reach has slough and wetland characteristics. The first mile of this system has excellent spawning material, and the mid reach offers good rearing area. Coho utilize this system, and spawning activity is monitored by the Quilleute Tribe - this is a supplemental index.

**Habitat Information:**

**Water source:**

- Surface runoff, springs, and high gradient tributaries.

**Intermittent/year-around:**

- Year-around

**Estimated flows (cfs):** 3+

**Water temperatures:** 6.5° C

**Adjacent stream temperature:** 6.0° C

**Other water observations:**

**Site area measurements:**  Indirect  Direct  Combination

Width: Channel- 0.6 - 2.5 m      Pond- ~20 m

Depth: Channel- 15 cm - 50 cm      Pond- 1 - 1.5 m

Total length surveyed: 2905 m

**Total existing habitat area (est.):** 6565+ m<sup>2</sup>

Spawning area: 2890 m<sup>2</sup>

Impounded area: 2500 m<sup>2</sup>

Other rearing area: 1175 m<sup>2</sup>

**Spawning habitat conditions:**  None  Poor  Fair  Good  Excellent

**Describe spawning habitat:**

- The numerous high gradient tributaries recruit gravel to this system.
- The lower first mile is more conducive to anadromous spawning.
- The upper reach is optimum resident trout spawning material.

**Rearing habitat conditions:**  None  Poor  Fair  Good  Excellent

**Describe pond and other rearing habitat:**

- The lower reach flows through a mature conifer and alder forest. It has some pooled areas with cover of LOD, overhang, and brush.
- The mid reach offers good rearing area in its slough and pond waters.
- Water sloughs through sedges with cover of LOD, water parsley, and brush. The canopy is composed of various mixtures of alder and conifer.
- The open pond is formed from a large, relic beaver dam. There is cover of LOD and sedges. There is some alder and stunted conifer along the banks.
- Water sloughs through a small wooded wetland above the beaver pond area. There is cover of LOD, sedges, water parsley and brush, and a canopy of mature conifers and medium sized alders.
- There is a short stretch, between two road culverts, where the channel has a large amount of blown down alder, and the channel flows in and out of the road ditch.
- The upper survey area was characterized as an alder bottom with some LOD and sedges as cover. There is a mix of water depths and substrate composition in this area. The alder bottom appears to continue above the end point.

**Unaccessible habitat:**

- There is a small debris jam near the egress that is a barrier during lower flows.
- The relic beaver dam is also a barrier during lower flows due to a 1 - 1.5 m drop.

**Wetland information:**  Bog  Marsh  Scrub-shrub Wetland  Forested Wetland

- Sedge marsh characteristics are found before and along the left bank of the beaver pond area.
- The forested wetland is characterized by large spruce, medium alder, brush, water parsley, sedges, and skunk cabbage.

**Flooding potential:**  Low  Medium  High

- Experiences flushing flows in areas.

**Fish Information:**

**Site entry condition to :**  Poor  Fair  Good

- Egresses into a moderate glide.

**Coho access and use:** Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- The Quilleute Tribe monitors this system for redd counts (supplemental index).

- Numerous coho fry were observed in the early spring.

**Other species access and use:**  Chum  Pink  Sockeye  Res. trout  Trout

- Numerous cutthroat trout were minnow trapped in the upper reach.

- It is assumed that steelhead would utilize this system.

**Habitat Improvements:**

**Enhancement opportunities:**

- Remove debris dam near egress.

- Modify relic beaver dam for easier passage.

**Additional Comments:**

- There is a collapsed stringer bridge in the lower reach. This is an accessible road and removal is recommended to avoid future problems.

- The lower-mid reach has been flagged for timber cutting.

**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

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

River System: Sol Duc

Site No.: S-0303

WRIA: 20.0303

Site Name: Philbert's

DATE: 3-5-96

OBSERVER: Powell

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		CATCH		RBT	CUTT	COTTID
	SET	TEMP	PULLED	TEMP	COHO MRK	UNMRK			
1	3/5	5.5°C	3/5	6°C	0	0	0	0	0
2	3/5	5.5°C	3/5	6°C	0	0	0	1	7
3	3/5	5.5°C	3/5	6°C	0	1	0	0	32
4	3/5	5.5°C	3/5	6°C	0	1	0	4	10
5	3/5	5.5°C	3/5	6°C	0	0	0	6	3
6	3/5	5.5°C	3/5	6°C	0	0	0	1	1
7	3/5	6°C	3/5	6.5°C	0	0	0	1	3
<b>TOTALS:</b>					0	2	0	13	57

**COMMENTS:**

- Traps 1, 2, and 3 were placed slightly above and in the wooded wetland.
- Traps 4, 5, and 6 were placed in the alder bottom located in the upper reach.
- Trap 7 was placed directly above the middle spur culvert.
- All the coho and cutthroat appeared to be in excellent condition.

DATE: 8-21-96

OBSERVER: Powell

They are starting to log on the right bank side, above the failed stringer bridge crossing. Flow was ~ 0.35 - 0.5 cfs - it has been a drier than normal summer. The temperature was 12° C. Observed numerous 0+ coho and trout above the failed stringer bridge. The upper end of the channel, off of the D-4000, had a flow of ~50 gpm (difficult to determine flow) and I observed numerous, no ID, salmonid fry (observed some 0+ coho). Small alders growing along the road have been sprayed. The channel partially flows along a road ditch where spraying took place.

DATE: Oct 96

OBSERVER: Nettnin

Partially removed a debris jam so the stream will regrade naturally to allow for better fish passage.

RIVER: SOL DUC

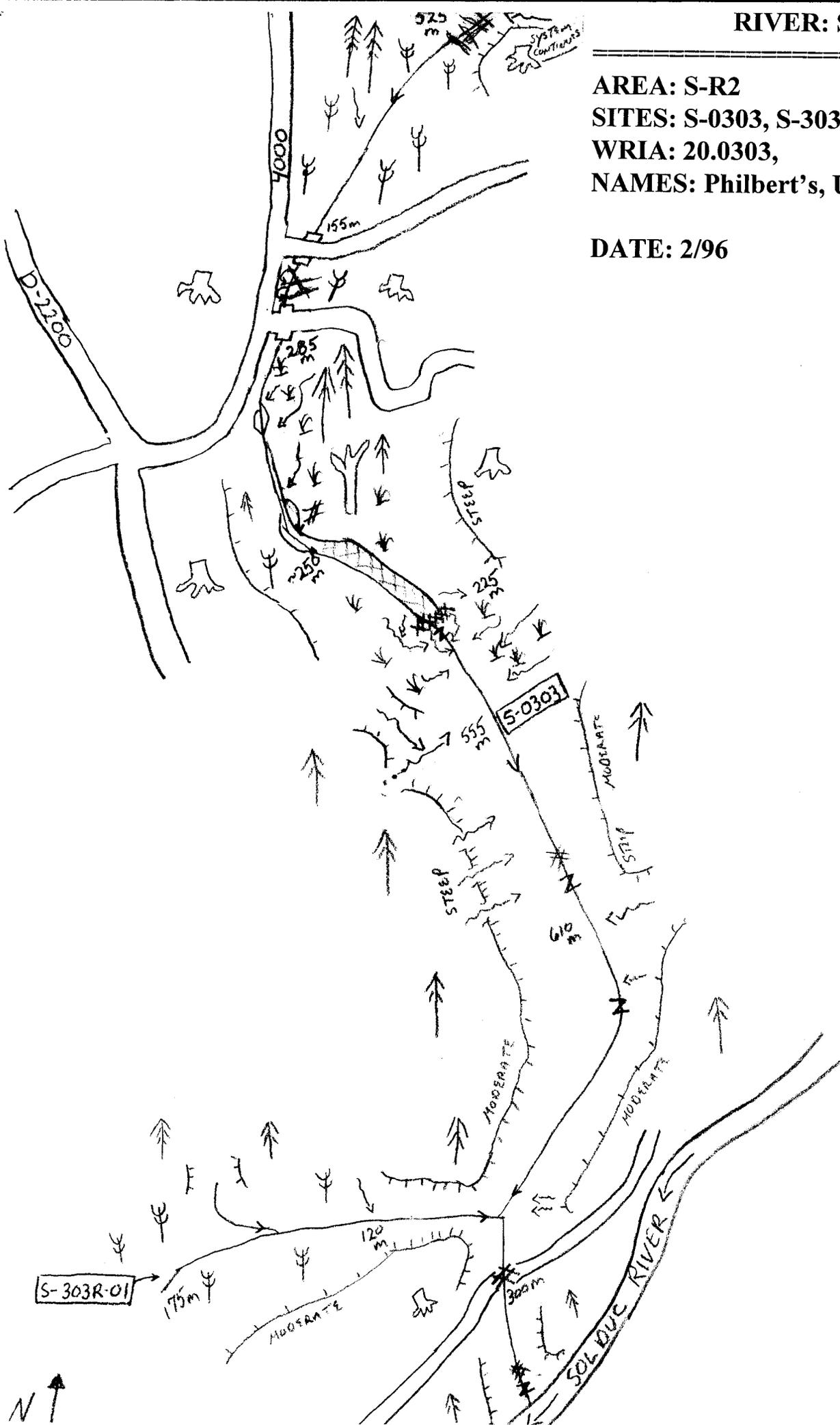
AREA: S-R2

SITES: S-0303, S-303R-01

WRIA: 20.0303,

NAMES: Philbert's, Unnamed

DATE: 2/96



RIVER: SOL DUC RIVER

AREA: S-R2

AREA MAP

9/96

FORKS QUADRANGLE

WASHINGTON  
7.5 MINUTE SERIES (TOPOGRAPHIC)

NW 1/4 FORKS 54 MI  
BEAVER PO 4.7 MI

124°22'30"  
48°00'

1130 000 FEET

1480 III

R 14 W (LAKE PLEASANT 1:62 500) R 13 W

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