

**ODFW AQUATIC INVENTORY PROJECT**  
**OREGON PLAN FOR SALMON & WATERSHEDS**  
**STREAM RESTORATION HABITAT REPORT**

STREAM: Salmonberry Creek (U99)  
BASIN: Smith River  
SURVEY TYPE: Post-Tx  
DATE: March 6, 2002  
SURVEY CREW: Charlie Stein, Paul Jacobsen  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 4.5 km<sup>2</sup>  
USGS MAPS: Beaver Creek  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Salmonberry Creek habitat survey extended 503 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.5 (range: 4.0 – 7.0). Land uses for the reach were young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (63%) and riffles (34%) dominated stream habitat. Gravel (65%) and sand (28%) dominated stream substrate. Wood volume was moderate at 27.6 m<sup>3</sup>/100m.

**COMMENTS:**

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

REACH

**T20S-R06W-S30SW**

REACH

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.5	VWI Range:	4 - 7

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	503	1,324	0
Secondary	15	9	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 2.6	Width: 5.5	11.4 ( 5.7 - 25 )	10.0 ( 6.3 - 16.1 )
Depth: 0.41	Height: 0.5	0.9 ( 0.9 - 1 )	1.2 ( 1.1 - 1.4 )

W:D ratio: 11.7

Entrenchment (ACW:FPW ratio): 1.9

Stream Flow Type: MF

Habitat Units/100m (total channel length): 8.3

Average Unit Gradient: 0.8%

Habitat Units/100m (primary channel length): 8.5

Water temperature (°C): 8.0 - 8.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	80	15.9
Volume (m <sup>3</sup> ):	139	27.6
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

SALMONBERRY CR POST-TX (U-99)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/6/2002

REACH	T20S-R06W-S30SW							REACH				
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
POOL-LATERAL SCOUR	23	292	2.9	0.64	844	0	10	37	52	1	0	0
RIFFLE	11	134	2.0	0.13	264	0	3	19	79	0	0	0
RIFFLE W/ POCKETS	3	78	2.3	0.22	185	0	5	27	67	2	0	0
STEP/COBBLE	6	16	2.7	0.15	41	0	1	14	85	0	0	0
<b>Total:</b>	43	518	2.6	0.41	1,333	0	<b>Avg:</b> 6	28	65	0	0	0

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	23	292	2.9	0.64	844	63.30%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	14	211	2.1	0.15	448	33.63%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	6	16	2.7	0.15	41	3.07%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	23	44.4	45.7
Pools >=1m deep:	2	3.9	4.0
Complex pools (LWD pieces>=3):	12	23.1	23.8
Pool frequency (channel widths/pool):	4.1		
Residual pool depth (avg):	0.50		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

**MONITORING AREA: 4-UMP    SITE ID: 99    SALMONBERRY CR POST-TX (U-99)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	9.5		SG~2M^2, START SURVEY ALDER/
3	LP	00	26.3	HS	NON-CABLED LOGS
6	LP	00	57.5	HS	NONCABLED LOGS
8	LP	00	77.3	HS	NON CABLED LOGS
9	RP	00	103.8		SMALL LP UNITS WITHIN RIFFLE
10	LP	00	110.8		FLAG "STRUCTURE SITE #4", SG
13	RI	01	143.2	TJ/	
14	RI	11	143.2		TRIB UNIT
15	LP	00	155.7		SG=2.5
17	LP	00	191.7	HS	SG=3 NON CABLED LOGS
20	LP	00	226.4	HS	NON CABLED LOGS
21	LP	00	242.4	HS	NON CABLED LOGS
23	LP	00	265.8	HS	NON CABLED LOGS
25	LP	00	281.8		SNORKEL POOL #6
27	LP	00	304.3	CE,SS/, HS	NON CABLED LOGS
29	LP	00	315.3		REDD AT TAIL
30	LP	00	328.3		SG=2
32	LP	00	346.4		FLAGGING, PHOTO PT. #19
34	LP	00	375.2	HS	SNORKEL POOL 8 NON CABLED LOGS
35	RP	00	405.2	HS	NON CABLED LOGS
38	LP	00	442.1	HS	SG=1.5 NON CABLED LOGS

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 4-UMP    SITE ID: 99    SALMONBERRY CR POST-TX (U-99)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
41	RP	00	491.6	HS	SITE #13 NON CABLED LOGS
43	SC	00	503.4		END SURVEY @ SIGN ON /ALDER