

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

STREAM: Bergsvick Creek (N116)
BASIN: Necanicum River
SURVEY TYPE: Reference
DATE: February 20, 2002
SURVEY CREW: Sean Allen, Rachel Werner
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 12.1km²
USGS MAPS: Necanicum Junction
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Bergsvick Creek habitat survey extended 686 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 16.7 (range: 10.0-20.0). Land uses for the reach were second growth (15-30 cm dbh) trees and rural residential. The average unit gradient was 1.0 percent. Scour pools (74%) and riffles (17%) dominated stream habitat. Gravel (34%) and cobble (29%) dominated stream substrate. Wood volume was low at 2.7 m³/100m.

COMMENTS:

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

The crew noted one habitat structure during the survey.

REACH

T5N-R10W-S26NE

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	16.7	VWI Range:	10 - 20

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	686	5,404	0
Secondary	58	138	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 6
Width: 6.7	Width: 12.8	23.8 (12.6 - 36.7)	25.2 (14 - 37)
Depth: 0.57	Height: 0.6	1.3 (1.1 - 1.4)	1.5 (1.15 - 1.8)

W:D ratio: 20.0

Entrenchment (ACW:FPW ratio): 1.9

Stream Flow Type: MF

Habitat Units/100m (total channel length): 5.6

Average Unit Gradient: 1.0%

Habitat Units/100m (primary channel length): 6.1

Water temperature (°C): 5.0 - 5.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	RR
Riparian Vegetation:	D15	C90

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):	29	4.2
Volume (m ³):	19	2.7
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

BERGSVICK REFERENCE (N116)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/20/2002

REACH		T5N-R10W-S26NE					REACH						
HABITAT DETAIL													
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area						
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
CASCADE/BEDROCK	1	5	1.0	0.30	5	0	0	0	50	5	5	40	
DRY UNIT	1	8	4.0	0.00	32	0	0	15	50	35	0	0	
POOL-LATERAL SCOUR	20	472	7.6	0.91	3,927	0	0	9	35	21	6	29	
POOL-PLUNGE	3	25	5.4	0.63	154	0	0	4	19	18	10	48	
RAPID/BEDROCK	1	14	6.2	0.30	87	0	0	5	5	5	0	85	
RAPID/BOULDERS	3	53	6.2	0.32	368	0	0	0	23	52	18	7	
RIFFLE	11	166	6.0	0.19	964	0	0	1	39	43	8	9	
STEP/LOG	2	1	8.0	0.10	6	0	0	0	23	28	14	35	
Total:	42	744	6.7	0.57	5,542	0	Avg: 0	6	34	29	7	25	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	23	498	7.3	0.87	4,081	73.63%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	11	166	6.0	0.19	964	17.40%	0	0.0	
Rapids	4	67	6.2	0.31	455	8.21%	0	0.0	
Cascades	1	5	1.0	0.30	5	0.09%	0	0.0	
Step/Falls	2	1	8.0	0.10	6	0.10%	0	0.0	
Dry	1	8	4.0	0.00	32	0.58%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	23	30.9	33.5
Pools >=1m deep:	7	9.4	10.2
Complex pools (LWD pieces>=3):	2	2.7	2.9
Pool frequency (channel widths/pool):	2.5		
Residual pool depth (avg):	0.71		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 116 BERGSVICK REFERENCE (N116)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
5	PP	00	76.5	/SS	
6	SL	00	76.7		H = .3
10	LP	01	166.1	/TJ	
11	CR	11	166.1		TRIB UNIT
21	RB	00	380.5	/SS	
22	LP	00	427.7	/SS	
23	LP	00	444.1	BC	LINDA LANE
28	SL	01	498.8		H = .3
35	RB	00	535.6	/SS	
36	LP	00	574.6	HS	
37	RI	00	587.3	/SS	COHO CARCASS