

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

STREAM: Buck Creek (MC74)  
BASIN: Alsea River  
SURVEY TYPE: Pre-Tx  
DATE: February 25, 2002  
SURVEY CREW: Russ Macal, Loren Stucker  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 31.9 km<sup>2</sup>  
USGS MAPS: Cannibal Mtn.  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Buck Creek habitat survey extended 518 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 3.0 (range: 1.2 – 6.0). Land uses for the reach were second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 1.4 percent. Scour pools (51%) and riffles (25%) dominated stream habitat. Cobble (43%) and gravel (28%) dominated stream substrate. Wood volume was low at 14.5 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH

T15S-R10W-S15NW

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	3.0	VWI Range:	1.2 - 6

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	518	4,056	0
Secondary	25	20	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 7.6	Width: 9.1	11.4 ( 8.6 - 13.1 )	13.7 ( 11.2 - 15.2 )
Depth: 0.54	Height: 0.6	1.1 ( 1.1 - 1.2 )	1.6 ( 1.3 - 2.1 )

W:D ratio: 15.9

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: LF

Habitat Units/100m (total channel length): 5.2

Average Unit Gradient: 1.4%

Habitat Units/100m (primary channel length): 5.4

Water temperature (°C): 6.5 - 6.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	S	D30

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):	62	12.0
Volume (m <sup>3</sup> ):	75	14.5
Key pieces (>=12m x 0.60m):	3	0.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

BUCK CREEK PRE-TX (MC-74)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/25/2002

REACH	T15S-R10W-S15NW							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	
CASCADE/BOULDERS	2	25	0.8	0.08	20	0	7	7	66	12	7	0	
POOL-LATERAL SCOUR	12	265	7.7	0.89	2,098	0	1	7	29	38	5	21	
RAPID/BEDROCK	2	59	7.9	0.35	470	0	0	3	13	15	5	65	
RAPID/BOULDERS	1	28	8.5	0.30	237	0	0	0	15	55	5	25	
RIFFLE	7	129	6.8	0.33	851	0	0	4	29	56	4	7	
RIFFLE W/ POCKETS	1	21	8.0	0.40	166	0	0	5	20	30	5	40	
STEP/COBBLE	3	17	13.1	0.20	233	0	0	2	13	75	10	0	
<b>Total:</b>	28	543	7.6	0.54	4,076	0	<b>Avg:</b> 1	5	28	43	5	18	

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	12	265	7.7	0.89	2,098	51.46%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	8	150	7.0	0.34	1,018	24.97%	0	0.0
Rapids	3	86	8.1	0.33	708	17.36%	0	0.0
Cascades	2	25	0.8	0.08	20	0.49%	0	0.0
Step/Falls	3	17	13.1	0.20	233	5.73%	0	0.0
Dry	0	0			0	0.00%	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:	12	22.1	23.2
Pools >=1m deep:	4	7.4	7.7
Complex pools (LWD pieces>=3):	5	9.2	9.6
Pool frequency (channel widths/pool):	5.0		
Residual pool depth (avg):	0.57		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **74**      **BUCK CREEK PRE-TX (MC-74)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	18.1		BEGIN AFTER /TJ, FLAGS ON TREE
3	LP	00	38.1		CHANNEL DIVIDED BY GRAVEL BAR
6	LP	00	109.7		SG = 2 SQ M, 2 REDDS
8	LP	00	149.4	SS/	
10	RI	00	194.7		VWI IS A BOTTLENECK HERE
11	RP	01	215.5	TJ/	POCKETS = .6M
12	CB	11	215.5		TRIB FLOW = 5%
14	LP	00	254.6	RF	ROAD FORD IS ABANDONED
16	LP	00	290.7		SG = 2 SQ M, 1 REDD
18	LP	00	342	/SS	STEELHEAD
19	RR	01	375	/TJ	
20	CB	11	375		FLOW = 3%
26	LP	00	475	SS/	
28	LP	00	518.2	SS/SS	END AT FLAGS ON TREES LT & RT