

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

STREAM: Panther Creek (U96)  
BASIN: Smith River  
SURVEY TYPE: Pre-Tx  
DATE: March 6, 2002  
SURVEY CREW: Charlie Stein, Paul Jacobsen  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 14.0 km<sup>2</sup>  
USGS MAPS: Beaver Creek  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Panther Creek habitat survey extended 523 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 7.0 (range: 5.0 – 8.0). Land uses for the reach were young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 1.1 percent. Scour pools (62%) and riffles (18%) dominated stream habitat. Cobble (25%) and sand (23%) dominated stream substrate. Wood volume was low at 6.9 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH

**T20S-R07W-S26SW**

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	7.0	VWI Range:	5 - 8

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	523	3,111	0
Secondary	24	31	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 5.8	Width: 9.9	14.0 ( 10.1 - 18 )	16.1 ( 11 - 20 )
Depth: 0.51	Height: 0.6	1.1 ( 1.1 - 1.2 )	1.5 ( 1.2 - 1.8 )

W:D ratio: 17.5  
 Stream Flow Type: MF  
 Average Unit Gradient: 1.1%  
 Water temperature (°C): 7.5 - 7.5

Entrenchment (ACW:FPW ratio): 1.4  
 Habitat Units/100m (total channel length): 4.9  
 Habitat Units/100m (primary channel length): 5.2

**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):	33	6.3
Volume (m <sup>3</sup> ):	36	6.9
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

PANTHER CREEK PRE-TX (U-96)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/6/2002

REACH	T20S-R07W-S26SW						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-DAMMED	1	18	6.1	0.75	110	0	20	40	30	10	0	0
POOL-LATERAL SCOUR	12	288	6.2	0.73	1,810	0	8	26	19	21	5	20
POOL-PLUNGE	1	18	7.9	0.80	141	0	10	30	20	20	1	20
PUDDLED UNIT	1	24	1.3	0.70	31	0	55	45	0	0	0	0
RAPID/BEDROCK	2	40	6.0	0.23	217	0	0	15	8	15	5	58
RAPID/BOULDERS	1	32	4.9	0.30	155	0	0	20	20	25	20	15
RIFFLE	4	109	5.3	0.28	564	0	1	18	16	33	23	10
STEP/BEDROCK	1	6	4.1	0.15	25	0	0	10	0	0	0	90
STEP/BOULDERS	1	1	5.1	0.10	5	0	0	0	0	70	30	0
STEP/COBBLE	2	11	8.1	0.15	83	0	0	8	15	53	25	0
STEP/LOG	1	1	2.5	0.20	1	0	0	40	20	40	0	0
<b>Total:</b>	<b>27</b>	<b>547</b>	<b>5.8</b>	<b>0.51</b>	<b>3,143</b>	<b>0</b>	<b>Avg: 7</b>	<b>23</b>	<b>16</b>	<b>25</b>	<b>10</b>	<b>19</b>

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	1	18	6.1	0.75	110	3.49%	0	0.0
Scour Pools	13	306	6.3	0.74	1,951	62.08%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	4	109	5.3	0.28	564	17.94%	0	0.0
Rapids	3	71	5.6	0.25	372	11.84%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	5	18	5.6	0.15	115	3.65%	0	0.0
Dry	1	24	1.3	0.70	31	0.99%	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:	14	25.6	26.8
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	11.0	11.5
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.51		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 4-UMP      SITE ID: 96      PANTHER CREEK PRE-TX (U-96)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	01	33	BV	START SURVEY
2	PD	02	33	WL	RSN, JELLY MASS
9	LP	00	194.1		FLAG "SNORKEL POOL #3"
11	LP	00	252.9		FLAG "STRUCTURE SITE #5"
13	LP	00	292.5	SS/, CE/	
16	SC	00	316.7	BV	
17	LP	00	338.4	SS/	
19	LP	00	362.4		FLAG "SNORKEL POOL #5"
23	PP	00	438.9		SG~2M^2
24	SL	00	439.4		H=.8
26	LP	00	481.5		FLAG "STRUCTURE SITE #8" SG~3M
28	SB	00	522.5		H=.3, END SURVEY @ SITE #9