

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

STREAM: Little South Fork Hunter Creek (SC-45)
BASIN: Hunter Creek
SURVEY TYPE: Post-Tx
DATE: February 20, 2001
SURVEY CREW: Andy Solcz, Peter Bower
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.4 km²
USGS MAPS: Sundown Mtn
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Little South Fork Hunter Creek habitat survey extended 510 meters. The channel was constrained by hillslopes in a steep V-shaped valley. The average valley width index was 1.6 (range: 1.0 – 2.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 2.4 percent. Rapids (45%) and riffles (29%) dominated stream habitat. Gravel (42%) and cobble (32%) dominated stream substrate. Wood volume was high at 37.8 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

REACH SUMMARY

REACH 1

T37S-R14W-S27SW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100	Constraining Terraces	0
Moderate V-shape	0	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 1.6 range: 1.0-2.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	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	510	3,431	0
Secondary	24	24	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.1	Width	10.5	14.2	11.9
Depth	0.37	Height	0.7	1.4	1.1
		W:D ratio	14.6	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 8.0-8.0°C
 Avg. Unit Gradient: 2.4% Habitat Units/100m: 5.6

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	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	128	25.1
Volume (m ³)	193	37.8
Key pieces ($\geq 10m \times 0.6m$)	13	2.5

HABITAT UNIT SUMMARY

REACH 1 T37S-R14W-S27SW REACH 1

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	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	2	22	1.0	0.10	21	0	18	8	30	40	5	0
GLIDE	1	15	6.0	0.25	91	0	0	10	70	10	10	0
POOL-BACKWATER	1	2	1.5	0.30	3	0	0	30	30	40	0	0
POOL-LATERAL SCOUR	2	30	7.0	0.75	217	0	3	8	60	20	10	0
POOL-STRAIGHT SCOUR	6	79	6.7	0.73	526	0	12	13	46	20	9	0
RAPID/BOULDERS	11	235	6.5	0.27	1,570	0	1	1	37	39	21	0
RIFFLE	5	121	7.1	0.22	851	0	4	6	44	36	10	0
RIFFLE W/ POCKETS	1	25	5.4	0.20	135	0	0	10	50	30	10	0
STEP/BOULDERS	1	5	7.8	0.20	42	0	10	0	20	40	30	0
Total:	30	534	6.1	0.37	3,455	0	Avg: 5	7	42	32	14	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	1	2	1.5	0.30	3	0.09	0	0.0
Scour Pools	8	109	6.8	0.74	743	21.49	0	0.0
Glides	1	15	6.0	0.25	91	2.64	0	0.0
Riffles	6	146	6.9	0.22	986	28.53	0	0.0
Rapids	11	235	6.5	0.27	1,570	45.42	0	0.0
Cascades	2	22	1.0	0.10	21	0.62	0	0.0
Step/Falls	1	5	7.8	0.20	42	1.22	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	9	16.8
Pools ≥1m deep:	2	3.7
Complex pools (LWD pieces ≥3):	6	11.2
Pool Frequency (channel widths/pool):	5.7	
Residual pool depth (avg)	0.48m	

STREAM SUMMARY

L. SOUTH FORK HUNTER POST-TX

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
30	534	6.1	0.37	3,455	5	7	42	32	14	0	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	743	21.5
Backwater Pools	3	0.1
Glide	91	2.6
Riffle	986	28.5
Rapid	1,570	45.4
Cascade	21	0.6
Step	42	1.2
Dry	0	0.0

