

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

STREAM: Camp Creek (MC-11)  
BASIN: Siuslaw River  
SURVEY TYPE: Pre-Tx  
DATE: July 12, 2000  
SURVEY CREW: LaNoah Babcock, Lisa Krentz  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 6.8 km<sup>2</sup>  
USGS MAPS: High Point  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Camp Creek habitat survey extended 539 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 13.0. Land use for the reach was timber harvest. The average unit gradient was 1.3 percent. Scour pools (62%) dominated stream habitat. Bedrock (47%) dominated stream substrate. Wood volume was very low at 2.2 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH SUMMARY

REACH 1

T19S-R7W-25NE

REACH 1

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 avg: ~~\*\*\*.\*~~ range: 999.0-0.0  
13.0 (from win 2000 pr -78)

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	539	2,010	0
Secondary	34	64	2

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.5	Width	4.6	5.9	6.4
Depth	0.24	Height	0.5	0.8	1.2
		W:D ratio	10.1	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 16.0-16.0°C  
Avg. Unit Gradient: 1.3% Habitat Units/100m: 10.3

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 85%
Undercut Banks	20%	Range: 56-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	42	7.8
Volume (m <sup>3</sup> )	12	2.2

Key pieces ( $\geq 10\text{m} \times 0.6\text{m}$ )

0

0.0

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HABITAT UNIT SUMMARY

REACH 1 T19S-R7W-25NE REACH 1

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	Cbbl	Bldr	Bdrk
DRY UNITS	1	15	0.9	0.00	14	0	50	50	0	0	0	0
GLIDE	5	74	3.9	0.17	261	5	5	5	6	1	1	82
POOL-BACKWATER	1	2	1.0	0.05	2	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	25	333	3.7	0.42	1,278	6	12	14	19	17	1	38
PUDDLED CHANNEL	1	5	4.3	0.05	21	0	5	25	30	40	0	0
RIFFLE	6	56	2.5	0.17	133	6	5	14	37	31	0	14
RIFFLE W/ POCKETS	2	32	5.6	0.20	162	0	3	5	10	23	0	60
STEP/BEDROCK	12	39	3.8	0.07	152	0	1	1	0	0	0	98
STEP/BOULDERS	1	1	1.8	0.10	1	3	0	0	5	10	85	0
STEP/COBBLE	5	18	2.8	0.07	51	0	5	9	21	63	0	1
<b>Total:</b>	<b>59</b>	<b>573</b>	<b>3.5</b>	<b>0.24</b>	<b>2,074</b>	<b>20</b>	<b>Avg: 9</b>	<b>10</b>	<b>15</b>	<b>17</b>	<b>2</b>	<b>47</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	1	2	1.0	0.05	2	0.10	0	0.0
Scour Pools	25	333	3.7	0.42	1,278	61.63	6	0.5
Glides	5	74	3.9	0.17	261	12.57	5	1.9
Riffles	8	88	3.3	0.18	295	14.22	6	2.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	18	57	3.4	0.08	204	9.82	3	1.5
Dry	2	20	2.6	0.03	35	1.67	0	0.0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	26	45.4
Pools ≥1m deep:	1	1.7
Complex pools (LWD pieces ≥3):	5	8.7
Pool Frequency (channel widths/pool):	4.8	
Residual pool depth (avg)	0.34m	

STREAM SUMMARY

CAMP CREEK (PRE SUM 00)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
59	573	3.5	0.24	2,074	9	10	15	17	2	47	20

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	1,278	61.6
Backwater Pools	2	0.1
Glide	261	12.6
Riffle	295	14.2
Rapid	0	0.0
Cascade	0	0.0
Step	204	9.8
Dry	35	1.7

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	711
Total conifers/1000 ft	366
Total conifers >20" dbh/1000 ft	81
Total conifers >35" dbh/1000 ft	20

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.3	2.0	0.3	1.0	0.0	3.0	0.7	6.0
15-30cm	1.0	1.3	0.7	1.0	0.0	0.0	1.7	2.3
30-50cm	1.3	1.7	0.7	0.7	0.3	0.0	2.3	2.3
50-90cm	0.3	0.3	0.7	0.0	0.0	0.7	1.0	1.0
>90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
Total/100m <sup>2</sup>	3.0	5.3	2.7	2.7	0.3	3.7	2.0	3.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	63		40		40	
Shrub cover	27		19		18	
Grass/forb cover	63		60		51	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		33		50
High terrace	50		50		50	
Low terrace	17		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	2		3		6	

Summary of Riparian Zone (0-30m) for all reaches ( 3 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	711
Total conifers/1000 ft	366
Total conifers >20" dbh/1000 ft	81

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.7	6.0
15-30cm	1.7	2.3
30-50cm	2.3	2.3
50-90cm	1.0	1.0
>90cm	0.3	0.0

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RIPARIAN ZONE VEGETATION

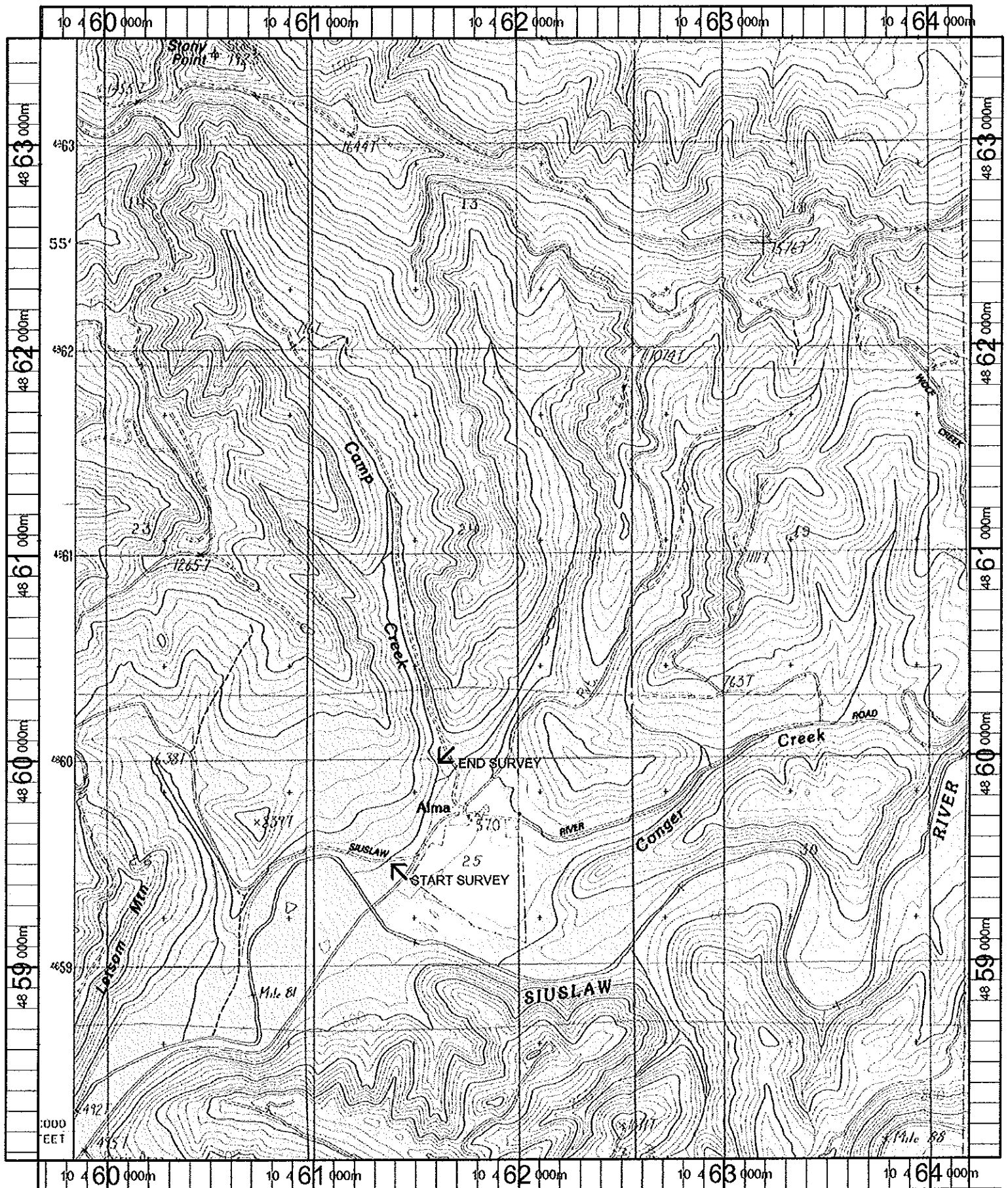
Reach 1

Reach 1

VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
12	LF	1	HT	0.0	90	10	90	Conifer	0	0	0	1	0	
								Hardwood	0	0	0	0	0	
12	LF	2	HT	0.0	70	5	90	Conifer	1	0	2	2	0	
								Hardwood	1	0	0	0	0	5% BARE, W. RED CED
12	LF	3	HT	0.0	0	0	50	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	50% BARE, D FIR, CL
12	RT	1	LT	0.0	50	70	20	Conifer	0	3	4	0	0	
								Hardwood	0	1	0	0	0	10% BARE
12	RT	2	LT	0.0	20	100	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
12	RT	3	HS	10.0	80	70	30	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	NATIVE BLACKBERRY,
26	LF	1	HS	5.0	60	40	40	Conifer	0	0	0	0	0	
								Hardwood	1	1	1	1	0	20% BARE
26	LF	2	HS	10.0	10	0	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	30% BARE
26	LF	3	HS	15.0	0	10	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	40% BARE, CLEAR CUT
26	RT	1	HT	0.0	80	0	95	Conifer	1	0	0	0	0	
								Hardwood	2	0	1	0	0	5% BARE
26	RT	2	HT	0.0	100	0	50	Conifer	0	0	0	0	1	
								Hardwood	0	3	1	0	0	1.2M DIAM CEDAR, 50
26	RT	3	HT	0.0	100	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	2	0	ODFW FLAGGING, BL M
39	LF	1	HS	5.0	5	10	60	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	30% BARE, BL MAPLE
39	LF	2	HS	5.0	0	0	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	20% BARE
39	LF	3	HS	10.0	0	0	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	60% BARE
39	RT	1	HT	0.0	95	30	70	Conifer	0	0	0	0	0	
								Hardwood	2	1	3	0	0	HUMMINGBIRD
39	RT	2	HT	0.0	40	10	70	Conifer	0	2	0	0	0	
								Hardwood	2	0	0	0	0	20% BARE, D FIR, V
39	RT	3	HT	0.0	60	20	40	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	60% BARE, RED ALDER





Name: HIGH POINT  
 Date: 11/8/100  
 Scale: 1 inch equals 2000 feet

Location: 10 461838 E 4860762 N  
 Caption: CAMP CREEK RESTORATION SITE - SIUSLAW BASIN