

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

STREAM: Taylor Creek (S-274)
BASIN: Pacific Ocean
SURVEY TYPE: Pre-Tx
DATE: March 21, 2006
SURVEY CREW: Scott Venables, Seth Ring
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 3.7 km³
USGS MAPS: Brookings
ECOREGION: Southern Oregon Coastal Mountains

GENERAL DESCRIPTION:

The Taylor Creek habitat survey extended 1,882 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 7.0 (range: 1.9-20.0). Land use for the reach was rural residential and timber harvest. The average unit gradient was 1.5 percent. Riffles (47%) and scour pools (27%) dominated stream habitat. Gravel (32%) and cobble (32%) dominated stream substrate. Wood volume was low at 10.8 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 1

T40S-R14W-S26SE

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	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	7.0	VWI Range:	1.9 - 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 Channel	1,882	10,223	0
Secondary Channel	45	48	2
Off-Channel Units	144	176	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 8
Width: 4.8	Width: 8.7	15.7 (9.1 - 26.8)	18.1 (11.6 - 30.4)
Depth: 0.50	Height: 0.9	1.8 (1.6 - 2)	2.3 (2 - 2.5)

W:D ratio: 9.8
 Stream Flow Type: MF
 Average Unit Gradient: 1.5%
 Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.9
 Habitat Units/100m (total channel length): 5.9
 Habitat Units/100m (primary channel length): 6.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	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:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	380	20.2
Volume (m ³):	202	10.8
Key pieces (>=12m x 0.60m):	5	0.3

OREGON DEPT OF FISH AND WILDLIFE

TAYLOR CREEK PRE-TX (5-SC, 274)

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

3/21/2006

REACH 1		T40S-R14W-S26SE					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	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	4	47	0.7	0.02	33	0	15	33	30	13	0	10
CASCADE/BOULDERS	9	227	4.4	0.25	1,225	0	1	5	32	28	29	5
DRY CHANNEL	1	9	2.2	0.00	20	0	60	30	5	5	0	0
POOL-BACKWATER	5	34	2.4	0.51	81	0	59	9	26	2	4	0
POOL-ISOLATED	1	4	0.9	0.10	3	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	43	496	5.1	0.83	2,532	0	4	19	37	30	9	1
POOL-PLUNGE	5	37	7.2	1.15	265	0	3	16	44	22	15	0
PUDDLED UNIT	1	20	0.4	0.05	7	0	5	15	10	65	5	0
RAPID/BOULDERS	11	257	5.5	0.34	1,380	0	0	4	28	41	27	0
RIFFLE	33	934	5.2	0.27	4,863	0	0	4	32	47	13	3
STEP/BEDROCK	1	1	5.1	0.15	4	0	0	0	0	0	0	100
STEP/BOULDERS	3	4	4.6	0.30	22	0	0	0	2	2	97	0
STEP/LOG	5	3	4.5	0.17	12	0	6	19	42	33	0	0
Total:	122	2,071	4.8	0.50	10,446	0	Avg: 6	12	32	32	15	3

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	6	38	2.1	0.44	84	0.81%	0	0.0
Scour Pools	48	532	5.3	0.86	2,797	26.77%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	33	934	5.2	0.27	4,863	46.55%	0	0.0
Rapids	11	257	5.5	0.34	1,380	13.21%	0	0.0
Cascades	13	274	3.3	0.18	1,258	12.04%	0	0.0
Step/Falls	9	8	4.6	0.21	37	0.36%	0	0.0
Dry	2	29	1.3	0.03	27	0.26%	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:	54	26.1	28.7
Pools >=1m deep:	16	7.7	8.5
Complex pools (LWD pieces>=3):	21	10.1	11.2
Pool frequency (channel widths/pool):	4.4		
Residual pool depth (avg):	0.63		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **5-SC** SITE ID: **274** TAYLOR CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SB	00	0.9		H=1.35M, T=9.0C AT 9:00AM	
3	SR	00	8.9	CC	H=0.70M, CULVERT = BEDROCK	
4	RI	00	115.6	CC	L=104.3 W=1.8 H=1.85	
5	CB	00	130.3		CT-CA,MT-RR,D25,S	
9	RI	00	167.9	SS/		
11	RI	01	214.9	/TJ,/SS		
12	RI	11	214.9		ACW=1.10M, T=8.0C AT 9:30AM	
18	LP	01	301.7	SS/,SS/		
22	LP	00	347.6	SS/		
23	RI	01	368	TJ/		
24	RI	11	368		ACW=3.20M, T=9.0C AT 10:10AM	
30	LP	00	429.1		HARDPAN	
31	RI	00	456.9		US-MT,MT,RR,S,D25	
36	LP	01	529.2	/SS,/TJ		
37	CR	11	529.2		ACW=0.80M, T=9.0C	
39	LP	00	547	SS/		
42	RI	00	608.1	/SS, /SS	ST,RR,CT-MT,D35,S	
46	BW	10	653.4	SS/,/SS		
49	SL	00	690.45	DJ	H=0.60M	
52	CB	01	768.95	TJ/,HS	HS=3 LOGS+BOULDERS	
53	CR	11	768.95		ACW=1.10M, T=10.0C AT 11:50AM	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **5-SC** SITE ID: **274** TAYLOR CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
54	LP	00	782.75			PUMP STATION
55	RI	00	797.75	/SS		
57	SL	00	805.05	DJ		H=0.65M
59	RI	00	883.05	/SS		
62	LP	00	917.95	/SS		
63	SL	00	918.7			H=0.70M
64	RI	00	937.6	/SS		CT-MT,TH,RR, D35,S
65	PP	00	944.9	SS/		
66	SL	00	945.4			H=0.70M
68	LP	00	983.5	SS/		
69	SB	00	984			H=0.40M
74	RI	01	1142.1	/TJ		
75	CB	11	1142.1			ACW=2.30M, T=10.0C AT 12:45PM
77	RB	00	1188.9			CT-MT,TH,TT,S,D30
78	SB	00	1191.8			H=0.55M
79	LP	00	1205.9	CS/CS		WATER PUMP
84	RB	01	1295.3	/TJ,/SS		
85	CB	11	1295.3			ACW=1.80M, T=11.0C AT 2:30PM
87	SL	00	1302.75			H=0.35M
88	RI	01	1364.85	/TJ		CT-MV,MT,RR,D30,S; BEDRCK=DIRT
89	CB	11	1364.85			ACW=1.30M, T=9.0C AT 3:00PM

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **5-SC** SITE ID: **274** TAYLOR CREEK PRE-TX

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
93	RB	01	1397.15	/TJ		
94	CR	11	1397.15		ACW=1.0M, T=10.0C AT 3:30PM	
99	CB	00	1561.25	SS/,SS	CT-MV,TH,RR,D30,F (SWORD FERN)	
101	RB	00	1586.45	/SS		
102	LP	01	1592.35	DJ,TJ/		
103	CR	11	1592.35		ACW=2.10M, T=10.0C AT 4:00PM	
105	LP	00	1609.65	/SS		
109	PD	02	1725.95		ACW=1.80M	
110	LP	00	1733.65	SS/		
118	RI	00	1818.75	RF		
122	RI	00	1882.15		US-MT,TH,RR,S,D30	



Name: BROOKINGS (OR)
 Date: 2/15/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0390829 E 4660316 N
 Caption: TAYLOR CREEK RESTORATION SITE - OCEAN BASIN