

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

STREAM: Brush Creek Site A (S-190)
BASIN: Pacific Ocean
SURVEY TYPE: Pre-Tx
DATE: June 30, 2003
SURVEY CREW: Nate Davis, Lucas Lawrence
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 27.5 km²
USGS MAPS: Port Orford
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Brush Creek Site A habitat survey extended 508 meters. The channel was constrained by terraces and roads in a broad valley floor. The average valley width index was 10.8 (range: 8.0-20.0). Land use for the reach was state park and large (30-50 cm dbh) trees. The average unit gradient was 0.7 percent. Riffles (52%) and scour pools (39%) dominated stream habitat. Gravel (47%) and sand (36%) dominated stream substrate. Wood volume was very low at 2.3 m³/100m.

COMMENTS:

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

OREGON DEPARTMENT OF FISH AND WILDLIFE

BRUSH CREEK SITE A PRE-TX (S-190)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

6/30/03

REACH 1		T33S-R15W-S26SW					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
GLIDE	1	25	9.5	0.20	238	0	5	15	75	5	0	0
POOL-BACKWATER	3	40	2.2	0.45	66	0	14	46	18	0	10	13
POOL-ISOLATED	1	7	2.7	0.55	18	0	24	33	14	0	29	0
POOL-LATERAL SCOUR	3	65	6.5	0.97	449	20	2	43	38	15	2	0
POOL-STRAIGHT SCOUR	2	112	8.5	0.83	1,018	39	9	53	22	7	4	4
RIFFLE	14	306	6.3	0.29	1,951	46	1	28	62	7	1	0
STEP/LOG	1	1	2.1	0.10	1	0	0	89	11	0	0	0
Total:	25	555	5.8	0.43	3,740	105	Avg 4	36	47	7	3	2

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		47
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	4	47	2.3	0.48	83	2.23%	0	0.0	
Scour Pools	5	177	7.3	0.91	1,467	39.23%	59	4.0	
Glides	1	25	9.5	0.20	238	6.35%	0	0.0	
Riffles	14	306	6.3	0.29	1,951	52.16%	46	2.4	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	1	1	2.1	0.10	1	0.03%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	9	16.2
Pools >=1m deep:	2	3.6
Complex pools (LWD pieces>=3):	1	1.8
Pool frequency (channel widths/pool):	6.2	
Residual pool depth (avg):	0.72	

STREAM SUMMARY

BRUSH CREEK SITE A PRE-TX (S-190)

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					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
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Habitat Group	Wetted Area	
	(m ²)	Percent
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Scour Pools	1,467	39.23%
Glides	238	6.35%
Riffles	1,951	52.16%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	1	0.03%
Dry	0	0.00%
Culverts	0	0.00%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	102
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	20
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.0	0.0	0.0	0.7	0.0	0.7	1.0
15-30cm	0.3	0.3	0.0	0.0	0.7	0.3	1.0	0.7
30-50cm	0.3	0.0	0.3	0.0	0.3	0.0	1.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	1.3	0.3	0.0	2.0	0.3	1.0	0.6

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	73		22		63	
Shrub cover	16		5		13	
Grass/forb cover	47		24		18	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		67	
High terrace	33		50		0	
Low terrace	67		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		50		33	
Riprap	0		0		0	
Surface slope (%)	5		0		53	

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

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

Total hardwoods/1000	102
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	20
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3 <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.7	1.0
15-30cm	1.0	0.7
30-50cm	1.0	0.0
50-90cm	0.3	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

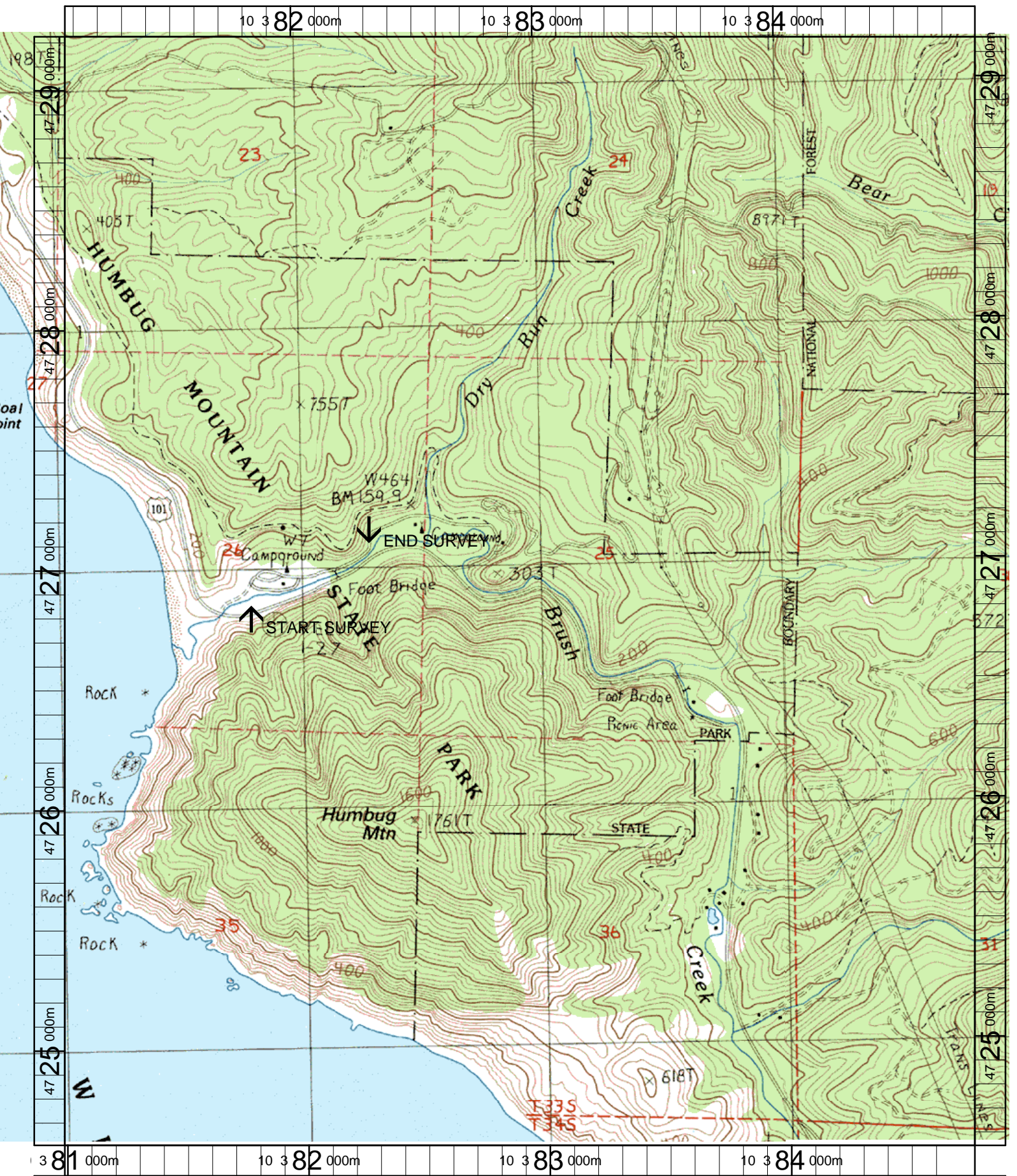
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
11	LF	1	HT	0	20	20	60	Conifer				1		
								Hardwood						
11	RT	2	HT	0	10	10	5	Conifer						
								Hardwood						
11	RT	1	LT	0	100	20	10	Conifer			1			
								Hardwood						
11	LF	2	RB	0	0	0	0	Conifer						
								Hardwood						
11	RT	3	RB	0	0	10	25	Conifer						
								Hardwood						
11	LF	3	RB	0	20	0	10	Conifer			1	1		
								Hardwood						
16	RT	2	RB	0	0	5	15	Conifer						
								Hardwood						
16	RT	3	HS	150	90	50	10	Conifer						
								Hardwood			1			
16	LF	3	HS	90	90	5	20	Conifer					1	
								Hardwood						
16	LF	1	LT	0	70	5	90	Conifer						
								Hardwood						
16	LF	2	HT	0	85	5	90	Conifer				1		
								Hardwood						
16	RT	1	LT	0	70	20	40	Conifer						
								Hardwood		2	1			
20	RT	3	HS	80	90	0	10	Conifer						
								Hardwood						
20	LF	1	HT	0	95	20	35	Conifer						
								Hardwood						
20	LF	2	HT	0	35	10	25	Conifer						
								Hardwood						
20	LF	3	HS	0	90	10	30	Conifer		2	1			
								Hardwood						
20	RT	1	LT	30	80	10		Conifer						
								Hardwood		1				
20	RT	2	RB	0	0	0	10	Conifer						
								Hardwood						

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 5-SC SITE ID: 190 BRUSH CREEK SITE A PRE-TX (S-19)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
3	LP	00	62.3	CS		
15	RI	00	248.6		/HS	
16	GL	01	273.6			HARD TO DISTINGUISH UNIT
20	SP	00	415.4	CS		
21	RI	00	432.3	CS		
22	SP	00	457.4	CS		
23	SL	00	457.9		H=.25	



Name: PORT ORFORD
 Date: 6/11/2003
 Scale: 1 inch equals 1666 feet

Location: 10 382908 E 4726888 N
 Caption: BRUSH CREEK SITE A RESTORATION SITE - OCEAN BASIN