

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: Post-Tx
DATE: February 25, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 27.5 km²
USGS MAPS: Port Orford
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Brush Creek habitat survey extended 529 meters. The channel was constrained by terraces and land use in a broad valley floor. The average valley width index was 4.3 (range: 1.1-9.0). Land use for the reach was state park and large (30-50 cm dbh) trees. The average unit gradient was 0.8 percent. Riffles (52%) and scour pools (44%) dominated stream habitat. Gravel (64%) and sand (25%) dominated stream substrate. Wood volume was low at 8.1 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 1

T33S-R15W-S26SE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	4.3	VWI Range:	1.1 - 9

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length (m)	Area (m2)	Dry Units
Primary	529	4,670	0
Secondary	9	32	0

Channel Dimensions (m)

Wetted		Active		Floodprone <i>n</i> = 5		First Terrace <i>n</i> = 3	
Width:	8.4	Width:	11.7	28.8	(9.5 - 80)	42.9	(22 - 82)
Depth:	0.66	Height:	0.7	1.4	(1.2 - 1.6)	1.8	(1.5 - 1.9)

W:D ratio:	16.9	Entrenchment (ACW:FPW ratio):	2.4
Stream Flow Type:	HF	Water temp (°C):	10.0 - 10.0
Avg. Unit Gradient:	0.8%	Habitat Units/100m:	4.1

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	GN	LT
Riparian Vegetation:	D15	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	Total	Total / 100m
All pieces (>=3m x 0.15m):	76	14.4
Volume (m ³):	43	8.1
Key pieces (>=10m x 0.60m):	4	0.8

OREGON DEPARTMENT OF FISH AND WILDLIFE

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

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/25/2004

REACH 1

T33S-R15W-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
POOL-BACKWATER	1	9	3.5	0.90	32	0	40	40	15	0	0	5
POOL-LATERAL SCOUR	7	233	8.5	1.24	2,066	0	0	42	52	6	0	0
RIFFLE	12	273	8.8	0.33	2,429	0	0	15	75	10	0	0
STEP/COBBLE	2	22	7.8	0.45	175	0	0	25	65	10	0	0
Total:	22	538	8.4	0.66	4,702	0	Avg: 2	25	64	8	0	0

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	1	9	3.5	0.90	32	0.67%	0	0.0
Scour Pools	7	233	8.5	1.24	2,066	43.95%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	12	273	8.8	0.33	2,429	51.66%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	2	22	7.8	0.45	175	3.72%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>	
All Pools:	8	14.9	9
Pools >=1m deep:	5	9.3	
Complex pools (LWD pieces>=3):	4	7.4	
Pool frequency (channel widths/pool):	5.7		
Residual pool depth (avg):	0.84		

STREAM SUMMARY

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

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
22	538	8.4	0.66	4,702	2	25	64	8	0	0	

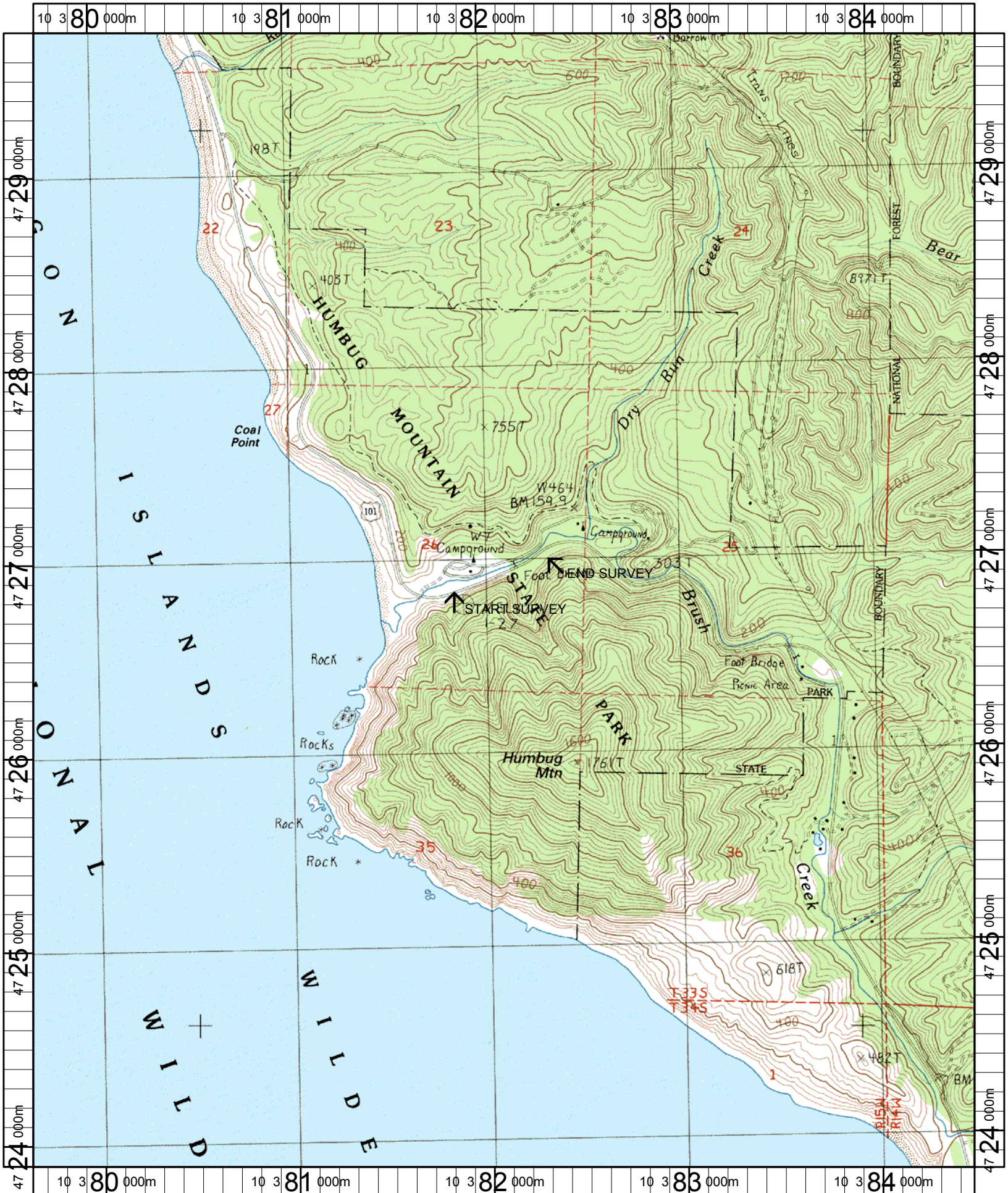
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	32	0.67%
Scour Pools	2,066	43.95%
Glides	0	0.00%
Riffles	2,429	51.66%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	175	3.72%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 5-SC SITE ID: 190 BRUSH CREEK SITE A POST-TX (S-1)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	15.5	HS		
2	RI	00	31	HS	LOG	
3	LP	00	61	CS/, HS	LOG	
9	RI	00	147.1	HS	LOG	
17	LP	00	423.1	BC,CS/,HS	BRIDGE	
18	RI	00	448.1	CS/, HS		
19	RI	00	463.9	HS	SG=8	
20	LP	00	480.9	CS/, HS		
21	RI	00	505.9	CS/, HS		
22	RI	00	528.9	CS/CE, HS	SG=6	



Name: PORT ORFORD
 Date: 8/5/2004
 Scale: 1 inch equals 2000 feet

Location: 10 382096 E 4726782 N
 Caption: BRUSH CREEK SITE A RESTORATION SITE - OCEAN BASIN