

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

STREAM: Beerman Creek (NC-6)
BASIN: Necanicum River
SURVEY TYPE: Pre-Tx
DATE: February 22, 2000
SURVEY CREW: Andrew Gross, Joe Zuccarello
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 2.6 km²
USGS MAPS: Tillamook Head
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Beerman Creek habitat survey extended 498 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 10.0. Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 1.1 percent. Riffles (81%) and scour pools (18%) dominated stream habitat. Gravel (44%) and cobble (28%) dominated stream substrate. Wood volume was low at 9.2 m³/100m.

COMMENTS:

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

REACH 1

T6N-R10W-34NE

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		VWI Range: -	

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	498	2,505	0
Secondary	26	35	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.5	Width	6.0	10.2	12.1
Depth	0.41	Height	0.4	0.8	1.6
		W:D ratio	15.1	Entrenchment	1.7

Stream Flow Type: MF Water temp (C): 8.0 - 8.0
 Avg. Unit Gradient: 1.1% Habitat Units/100m: 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	ST
Riparian Vegetation:	M30	G

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</u>
All pieces (>=3m x 0.15m):	34	6.8
Volume (m ³):	46	9.2
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

BEERMAN CREEK PRE-TX

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

2/2/00

REACH 1		T6N-R10W-34NE						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-ALCOVE	1	3	3.1	0.20	8	0	90	10	0	0	0	0	0
POOL-LATERAL SCOUR	8	75	4.6	0.78	345	0	5	19	47	26	4	0	0
POOL-PLUNGE	1	7	10.8	1.00	72	0	5	20	40	35	0	0	0
POOL-STRAIGHT SCOUR	1	10	3.6	0.50	35	0	10	14	38	38	0	0	0
RAPID/BOULDERS	3	24	1.1	0.13	26	0	8	52	31	10	0	0	0
RIFFLE	14	404	5.1	0.25	2,049	0	2	12	49	33	4	0	0
STEP/LOG	2	2	3.3	0.15	4	0	9	14	50	26	0	0	0
Total:	30	524	4.5	0.41	2,540	0	Avg 7	18	44	28	3	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	3	3.1	0.20	8	0.33%	0	0.0	
Scour Pools	10	92	5.1	0.78	452	17.78%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	14	404	5.1	0.25	2,049	80.70%	0	0.0	
Rapids	3	24	1.1	0.13	26	1.04%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	2	2	3.3	0.15	4	0.15%	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:	11	22.1	
Pools >=1m deep:	3	6.0	
Complex pools (LWD pieces>=3):	1	2.0	
Pool frequency (channel widths/pool):	7.9		
Residual pool depth (avg):	0.48		

STREAM SUMMARY

BEERMAN CREEK PRE-TX

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	
30	524	4.5	0.41	2,540	7	18	44	28	3	0	

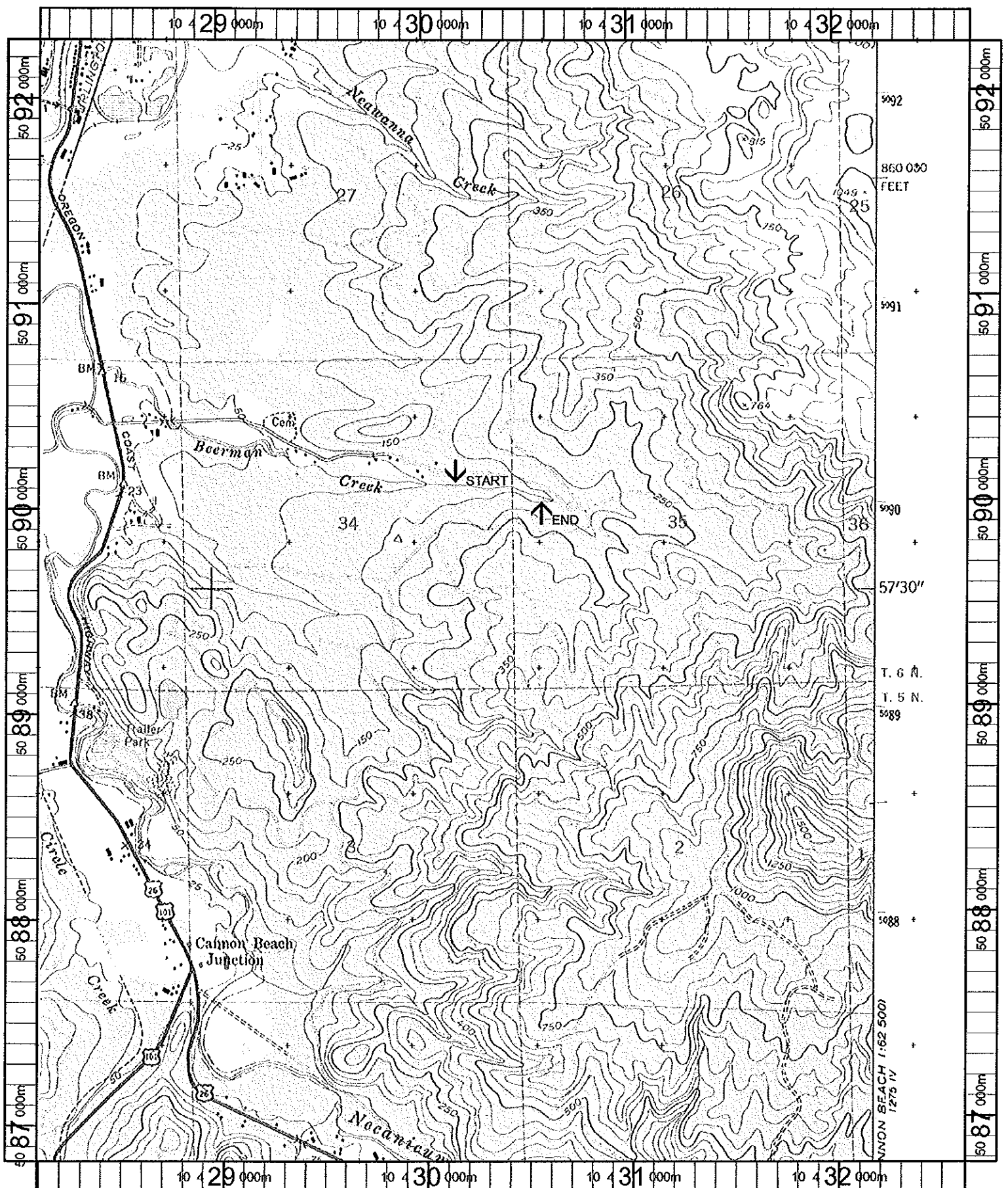
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	8	0.33%
Scour Pools	452	17.78%
Glides	0	0.00%
Riffles	2,049	80.70%
Rapids	26	1.04%
Cascades	0	0.00%
Step/Falls	4	0.15%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 1-NC SITE ID: 6 BEERMAN CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	01	20.8		T= 8°C,@ 13:30, VWI = 10	
2	AL	10	20.8	SS/		
4	RI	01	59.6	/TJ		
5	RB	11	59.6		T= 8.0°	
6	SL	00	60		H= 0.35	
9	SP	00	161.7		VWI= 10+	
12	RI	00	220.8		SITE # 4 FLAG	
16	LP	00	299.3		SITE # 6, VWI = 10+	
17	RI	00	334.6		#7, FLAG, PIC # 25	
19	SL	00	342.4		H= 0.35	
20	RI	01	373.9	TJ/		
21	RB	11	373.9		T= 8.5°	
22	RI	00	399.6		SITE # 8, VWI 10+	
24	RI	00	429.2	/SS	SITE # 9	
25	LP	01	441.9	TJ/		
26	RB	11	441.9		T= 8.0°	
30	LP	00	497.5		VWI= 10+	



Name: TILLAMOOK HEAD
 Date: 10/16/100
 Scale: 1 Inch equals 2000 feet

Location: 10 430285 E 5089515 N
 Caption: BEERMAN CREEK RESTORATION SITE - NECANICUM RIVER