

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

STREAM: Charlie Creek (N-332)
BASIN: Necanicum River
SURVEY TYPE: Pre-Tx
DATE: March 21, 2006
SURVEY CREW: Brian Cannon, Jon Nott
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 1.8 km²
USGS MAPS: Necanicum Junction
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Charlie Creek habitat survey extended 749 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 20.0. Land use for the reach was rural residential and second growth (15-30 cm dbh) trees. The average unit gradient was 1.5 percent. Scour pools (52%) and riffles (40%) dominated stream habitat. Gravel (59%) and sand (26%) dominated stream substrate. Wood volume was very low at 5.6 m³/100m.

COMMENTS:

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

OREGON DEPT OF FISH AND WILDLIFE

CHARLIE CREEK PRE-TX (1-NC, 332)

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

3/21/2006

REACH 1		T05N-R09W-S22NE					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/BOULDERS	1	4	6.0	0.30	26	0	0	20	50	30	0	0
POOL-BACKWATER	1	3	1.2	0.40	4	0	30	50	20	0	0	0
POOL-DAMMED	1	5	1.4	0.45	7	0	0	25	60	15	0	0
POOL-LATERAL SCOUR	30	334	2.4	0.60	820	0	1	32	53	12	0	1
POOL-PLUNGE	3	35	2.3	0.97	82	0	0	43	53	3	0	0
RAPID/BOULDERS	5	35	2.1	0.25	71	0	0	5	53	37	1	4
RIFFLE	18	282	2.3	0.20	640	0	0	15	73	11	0	0
RIFFLE W/ POCKETS	1	40	1.6	0.20	63	0	0	40	60	0	0	0
STEP/COBBLE	5	9	2.4	0.16	20	0	2	10	70	12	0	6
STEP/LOG	5	6	2.1	0.13	9	0	0	42	56	2	0	0
Total:	70	752	2.3	0.41	1,742	0	Avg: 1	26	59	13	0	1

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	2	8	1.3	0.43	11	0.61%	0	0.0	
Scour Pools	33	369	2.4	0.64	901	51.76%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	19	322	2.3	0.20	703	40.37%	0	0.0	
Rapids	5	35	2.1	0.25	71	4.09%	0	0.0	
Cascades	1	4	6.0	0.30	26	1.52%	0	0.0	
Step/Falls	10	15	2.3	0.15	29	1.66%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

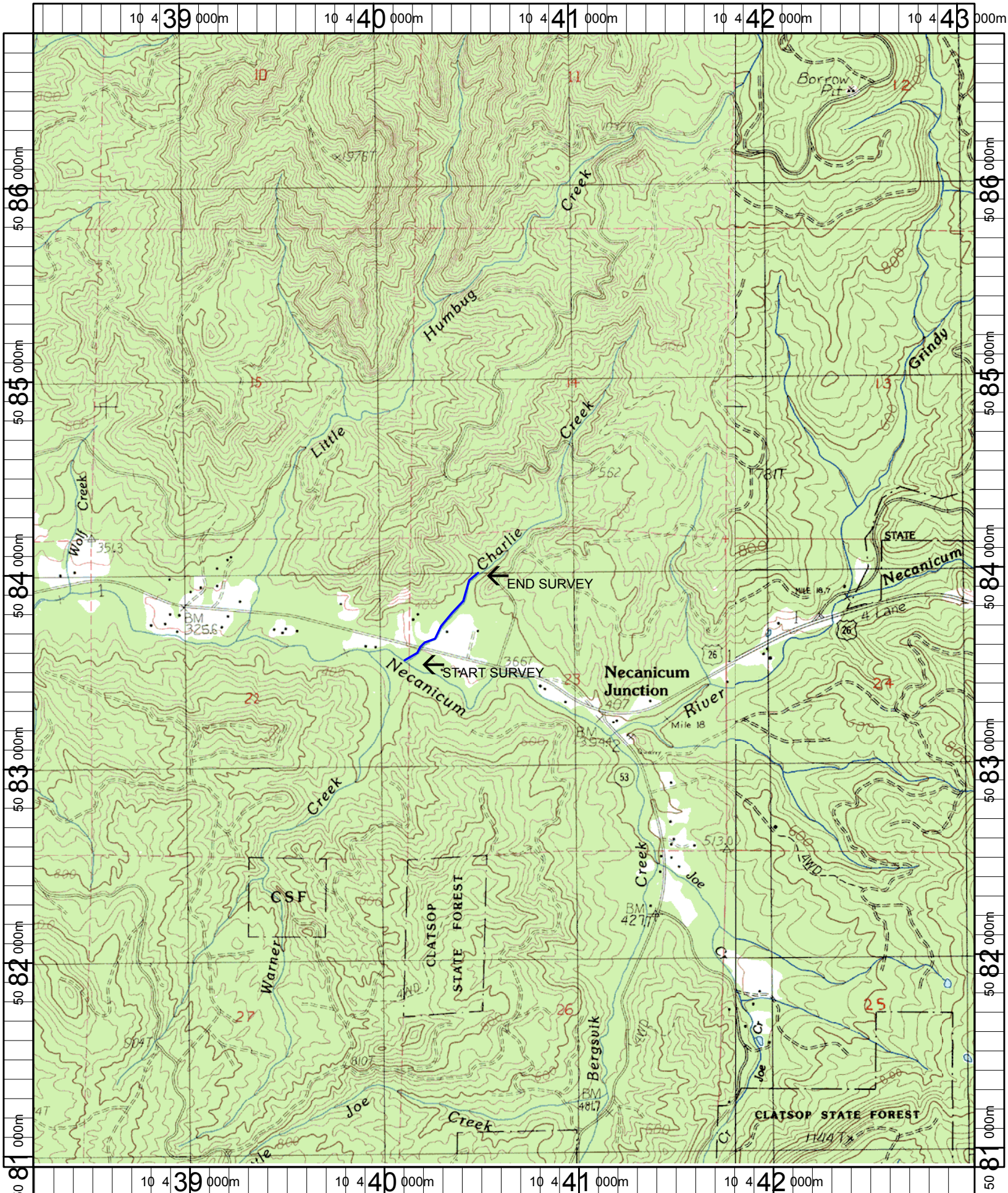
POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	35	46.5	46.7
Pools >=1m deep:	3	4.0	4.0
Complex pools (LWD pieces>=3):	6	8.0	8.0
Pool frequency (channel widths/pool):	5.1		
Residual pool depth (avg):	0.47		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC SITE ID: 332 CHARLIE CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	35.9	SS/		
2	LP	00	46	SS/	COHO FRY	
6	SL	00	70.8		H = 0.3	
25	RI	00	266.4	CC	2.3 x 1.3, SUNKEN BOTTOM METAL	
27	LP	00	298.5	BC	CONCRETE BRIDGE	
30	SC	00	326.3	DJ	H = 0.3	
40	SL	00	420.7		H = 0.35	
43	RB	00	439.6		HARDPAN	
49	SL	00	476.2		H = 0.6	
52	SL	00	500.2		H = 0.4	
65	SL	00	673.8		H = 0.2	
66	RI	00	704.8	BC	FOOT BRIDGE	



Name: NECANICUM JUNCTION
 Date: 1/19/2006
 Scale: 1 inch equals 2000 feet

Location: 10 440641 E 5083851 N
 Caption: CHARLIE CREEK RESTORATION SITE - NECANICUM BASIN