ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	Cedar Creek (N-312)
BASIN:	Nehalem River
SURVEY TYPE:	Post-Tx
DATE:	February 6, 2007
SURVEY CREW:	Brian Bangs, Scott Sebring
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	8.3 km^2
USGS MAPS:	Pittsburg
ECOREGION:	Coast Range Willapa Hills

GENERAL DESCRIPTION:

The Cedar Creek habitat survey extended 1,058 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 6.4 (range: 2.0-11.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 3.0 percent. Riffles (31%) and rapids (27%) dominated stream habitat. Gravel (62%) dominated stream substrate. Wood volume was moderate at 24.8 m^3/100m.

COMMENTS:

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

OREGON DEPT OF FISH AND WILDLIFE **CEDAR CREEK POST-TX (1-NC, 312)**

HABITAT INVENTORY Report Date: 4/25/2007 Survey Date: 2/6/2007

REACH 1 **T06N-R04W-S34NE** **REACH 1**

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 6.4 VWI Range: 2 - 11

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	100%		
Landuse	0%		

Channel Characteristics

Type	Length (m)	Area (m2)	Dry Units
Primary Channel	1,058	4,613	0
Secondary Channel	124	190	1
Off-Channel Units	2	2	0

Channel Dimensions (m)

Wetted		Active		Floodprone *n* = 5		First Terrace *n* = 5	
Width:	4.0	Width:	6.7	12.5	(5.8 - 21.6)	14.9	(8.2 - 25)
Depth:	0.33	Height:	0.5	1.1	(0.9 - 1.2)	1.3	(1 - 1.7)

W:D ratio: 12.7
Entrenchment (ACW:FPW ratio): 1.9
Stream Flow Type: MF
Habitat Units/100m (total channel length): 5.9
Average Unit Gradient: 3.0%
Habitat Units/100m (primary channel length): 6.6
Water temperature (°C): 6.0 - 6.0

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	YT	ST
Riparian Vegetation:	D30	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 primary channel
All pieces (>=3m x 0.15m):	259	24.5
Volume (m^3):	262	24.8
Key pieces (>=12m x 0.60m):	6	0.6

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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	10	1.0	0.05	10	0	25	70	5	0	0	0
POOL-BACKWATER	1	2	1.2	0.35	2	0	50	30	20	0	0	0
POOL-BEAVER DAM	2	64	12.5	0.85	809	0	58	35	5	3	0	0
POOL-LATERAL SCOUR	29	255	4.0	0.56	1,034	0	10	20	61	6	1	3
PUDDLED UNIT	1	20	1.0	0.05	20	0	70	30	0	0	0	0
RAPID/BOULDERS	16	364	3.6	0.14	1,274	0	7	18	64	10	0	1
RIFFLE	13	437	3.3	0.14	1,504	0	4	6	78	7	0	5
STEP/BEAVER DAM	1	2	10.0	0.10	20	0	75	0	20	5	0	0
STEP/COBBLE	6	29	4.7	0.11	132	0	0	4	82	14	0	0
Total:	70	1,184	4.0	0.33	4,805	0	**Avg:** 11	17	62	8	0	2

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders (# / $100m^2$)
Dammed & BW Pools	3	66	8.7	0.68	811	16.89%	0	0.0
Scour Pools	29	255	4.0	0.56	1,034	21.52%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	13	437	3.3	0.14	1,504	31.29%	0	0.0
Rapids	16	364	3.6	0.14	1,274	26.52%	0	0.0
Cascades	1	10	1.0	0.05	10	0.21%	0	0.0
Step/Falls	7	31	5.4	0.11	152	3.16%	0	0.0
Dry	1	20	1.0	0.05	20	0.42%	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:	32	27.0	30.2
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	12	10.1	11.3
Pool frequency (channel widths/pool):	5.5		
Residual pool depth (avg):	0.41		

Comment Summary
Restoration Monitoring Sites 2007

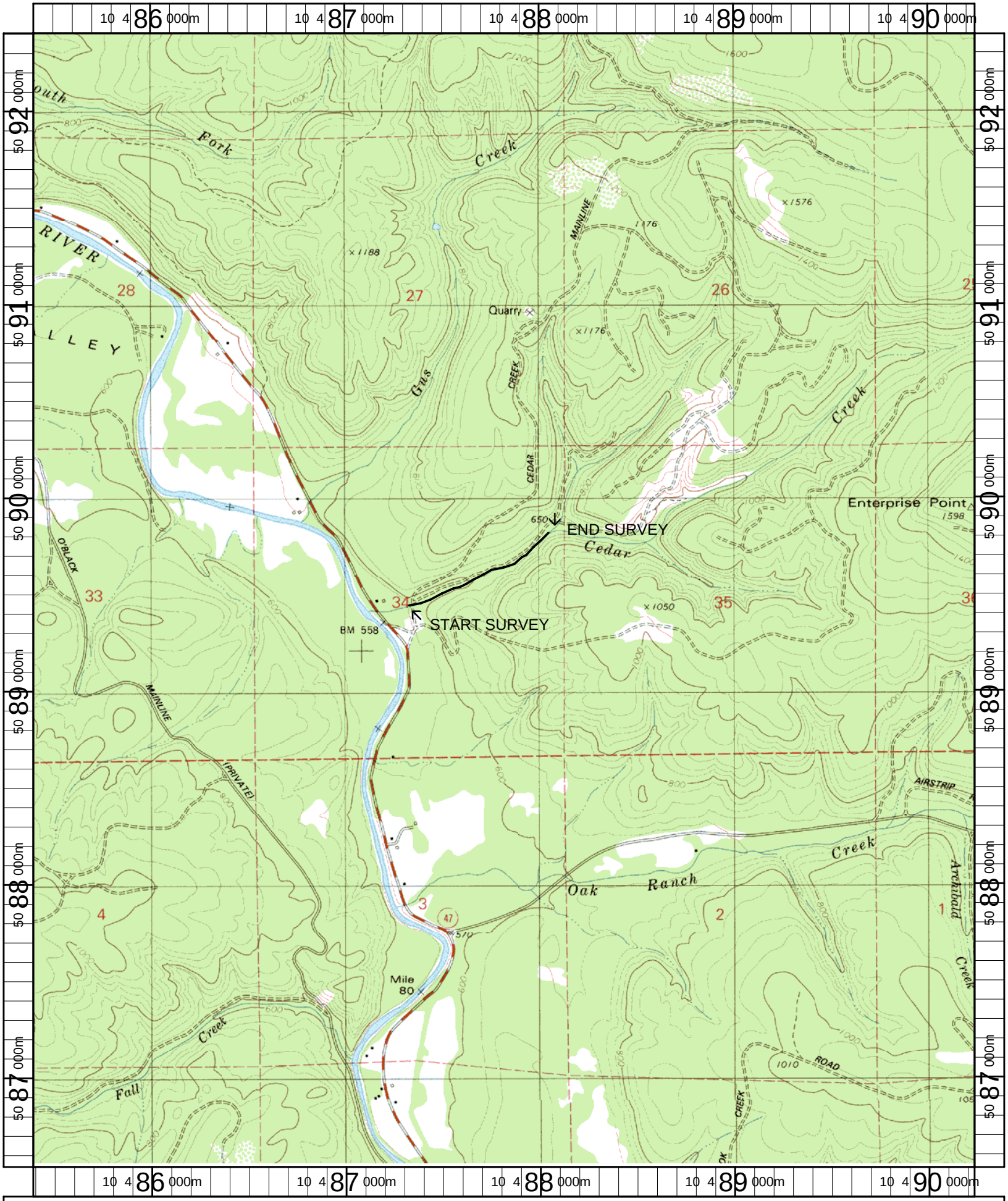
MONITORING AREA: 1-NC SITE ID: 312 CEDAR CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
1	RI	00	57.5		CT/CT/YT/YT/D30/S
2	LP	00	65.7		PHOTO 160 UPSTREAM
3	RB	00	74.8		7=5.0C AT 10:46
4	LP	00	86.3		START UTM 0487329/5089427 (3D)
10	LP	00	135.3		UCB
23	RI	01	272.9		CA/MT/D30/S/YT/YT
24	RI	02	272.9		T=5.0C AT 12:00
29	LP	00	335.9	BV	
31	LP	00	374.9	BV	
32	SC	01	380.4	BV	
33	LP	01	391.4	BV	
34	RI	01	421.4	BV	
35	SD	01	423.4	BD	H=1.50M
36	RB	02	423.4	BV	
37	PD	03	423.4	BV	
38	CB	04	423.4	BV	
39	BP	00	451.9	BV, /SS	
41	BP	00	495.8	BV	
44	RI	00	592.9		CA/MT/D15/S/YT/YT
45	LP	00	601.4		T=6.0C AT 13:16
50	RI	01	723.4	/SS	

Comment Summary
Restoration Monitoring Sites 2007

MONITORING AREA: **1-NC** **SITE ID:** **312** **CEDAR CREEK POST-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
53	RB	00	746.4		CA/CT/D30/S/YT/YT
54	LP	00	757.4	SS/	T=6.0C AT 13:54
64	RB	00	913.3	/SS	
69	LP	00	989.9		10T 0488012 UTM 5090052 (3D)
70	RI	00	1057.9		CH/MV/D30/S/YT/ST



Name: PITTSBURG
Date: 4/25/2007
Scale: 1 inch equals 2000 feet

Location: 10 0487815 E 5089468 N
Caption: CEDAR CREEK RESTORATION SITE - NEHALEM BASIN