

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

STREAM: Catching Creek (U-127)
BASIN: South Umpqua River
SURVEY TYPE: Post-Tx
DATE: June 26, 2003
SURVEY CREW: Peter Baki, Scott Kirby
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 13.7 km²
USGS MAPS: Nickel Mtn.
ECOREGION: Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Catching Creek habitat survey extended 522 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 14.3 (range: 4.5-20.0). Land use for the reach was heavy grazing and young (3-15 cm dbh) trees. The average unit gradient was 2.2 percent. Rapids (34%) and scour pools (32%) dominated stream habitat. Gravel (30%), cobble (27%) and sand (26%) dominated stream substrate. Wood volume was low at 12.7 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.

OREGON DEPARTMENT OF FISH AND WILDLIFE

CATCHING CREEK POST-TX (U-127)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

6/26/03

REACH 1		T31S-R06W-S04NE						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	
DRY UNIT	2	27	1.9	0.00	55	0	5	21	56	16	3	0	
GLIDE	2	27	2.2	0.26	58	0	5	22	34	37	2	0	
POOL-BACKWATER	1	6	2.3	0.42	14	0	21	63	11	0	0	5	
POOL-ISOLATED	1	2	1.2	0.12	3	0	33	14	29	24	0	0	
POOL-LATERAL SCOUR	14	123	3.7	0.65	437	20	4	50	26	11	5	4	
POOL-STRAIGHT SCOUR	1	13	4.0	0.68	50	0	0	30	25	45	0	0	
RAPID/BOULDERS	14	203	2.5	0.17	517	71	2	12	29	37	21	0	
RIFFLE	9	160	2.4	0.15	392	39	2	17	39	31	10	1	
STEP/BOULDERS	2	6	1.9	0.08	12	5	0	0	15	30	55	0	
STEP/COBBLE	1	2	2.0	0.01	4	0	0	0	20	70	10	0	
Total:	47	568	2.8	0.31	1,541	135	Avg	4	26	30	27	12	2

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		46
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	2	8	1.8	0.27	17	1.07%	0	0.0	
Scour Pools	15	135	3.7	0.66	487	31.58%	20	4.1	
Glides	2	27	2.2	0.26	58	3.78%	0	0.0	
Riffles	9	160	2.4	0.15	392	25.44%	39	9.9	
Rapids	14	203	2.5	0.17	517	33.56%	71	13.7	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	3	8	1.9	0.05	16	1.02%	5	31.7	
Dry	2	27	1.9	0.00	55	3.54%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	17	29.9
Pools >=1m deep:	2	3.5
Complex pools (LWD pieces>=3):	5	8.8
Pool frequency (channel widths/pool):	5.2	
Residual pool depth (avg):	0.60	

STREAM SUMMARY

CATCHING CREEK POST-TX (U-127)

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	
47	568	2.8	0.31	1,541	4	26	30	27	12	2	135

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	17	1.07%
Scour Pools	487	31.58%
Glides	58	3.78%
Riffles	392	25.44%
Rapids	517	33.56%
Cascades	0	0.00%
Step/Falls	16	1.02%
Dry	55	3.54%
Culverts	0	0.00%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1	REACH 1
Summary of Riparian Zone (0-30m) 3 transects	
Total hardwoods/1000	447
Total conifers/1000 ft	589
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	0.7	2.7	1.3	2.3	1.7	5.0	3.7
15-30cm	0.0	0.7	0.7	0.3	2.7	1.0	3.3	2.0
30-50cm	0.0	0.0	0.3	1.0	1.0	0.0	1.3	1.0
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Total/100m2	0.0	1.7	3.7	3.0	6.0	2.7	3.2	2.4

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	42	53	31
Shrub cover	45	47	37
Grass/forb cover	40	33	52

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	0	33	67
High terrace	50	67	33
Low terrace	50	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	0	13	19

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	447
Total conifers/1000 ft	589
Total conifers >20" dbh/1000 ft	0
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	5.0	3.7
15-30cm	3.3	2.0
30-50cm	1.3	1.0
50-90cm	0.0	0.3
>90cm	0.0	0.3

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

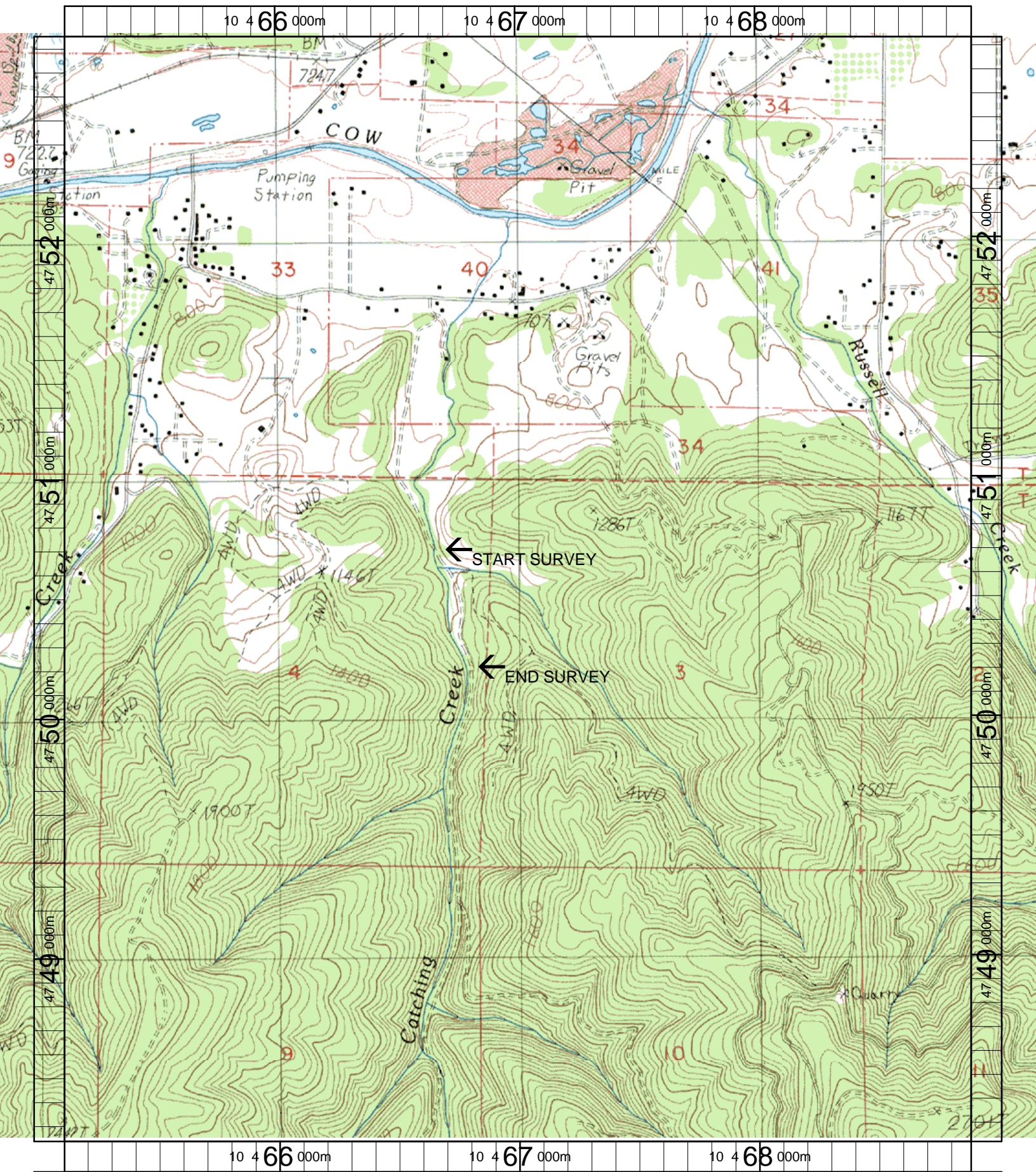
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	2	HT	0	20	0	5	Conifer							MOSTLY SOIL
								Hardwood		1				1	
9	LF	3	HS	25	15	50	10	Conifer							HALF IS ROAD ALL SOIL
								Hardwood	4	1					
9	RT	1	HT	0	15	10	80	Conifer							
								Hardwood							
9	RT	2	HS	40	60	50	50	Conifer				1			
								Hardwood	2						
9	RT	3	HS	40	70	70	20	Conifer				3			ESTIMATED
								Hardwood	1						
9	LF	1	LT	0	60	20	0	Conifer							
								Hardwood	2	1		1			
25	LF	1	LT	0	5	100	0	Conifer							
								Hardwood							
25	LF	2	HT	0	0	0	100	Conifer							
								Hardwood							
25	RT	1	HT	0	0	40	60	Conifer							
								Hardwood							
25	RT	2	HT	0	90	100	0	Conifer	4						
								Hardwood	2						
25	RT	3	HS	30	90	100	0	Conifer	3	3					ESTIMATED
								Hardwood		1					
25	LF	3	HT	0	0	0	80	Conifer							ROAD
								Hardwood							
35	RT	3	HS	20	5	0	100	Conifer	4	5					
								Hardwood							
35	RT	2	HS	35	85	30	40	Conifer	4	2					
								Hardwood							
35	RT	1	HT	0	90	10	90	Conifer							
								Hardwood							
35	LF	3	HT	0	5	0	100	Conifer							ESTIMATED
								Hardwood		1					
35	LF	2	HT	0	60	100	0	Conifer							ESTIMATED
								Hardwood				3			
35	LF	1	LT	0	80	90	10	Conifer							
								Hardwood		1					

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **4-UMP** SITE ID: **127** CATCHING CREEK POST-TX (U-127)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RB	00	23.8		REACH PHOTO 0004 W/ P	START SIGN ON LEFT
2	LP	00	37.3	HS		
9	RB	01	137.7		METRICS TAKEN BEFORE	
12	LP	01	174.4	HS		PINK FLAG SITE 6
19	SB	00	203.7		H=.25 M	
23	SC	00	234.5		H=.3M	
25	RB	00	267.5	RF		
27	BW	10	273	HS		
28	LP	00	278.4	HS	SHADE DUE TO HS	
35	RB	00	411.8		TW ESTIMATED	
36	LP	00	415.8	DJ		
40	LP	00	459.6	DJ	PHOTO 0005 RESTORATI	
43	SB	00	481.2		H=.5 M	
47	RI	00	522			END SIGN ON RIGHT



Name: NICKEL MT
 Date: 6/11/2003
 Scale: 1 inch equals 1666 feet

Location: 10 466998 E 4750540 N
 Caption: CATCHING CREEK RESTORATION SITE - COW CR./S.
 UMPQUA BASIN