

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

STREAM: Catching Creek (U-127)
BASIN: Cow Creek/ S. Umpqua River
SURVEY TYPE: Post-Tx
DATE: July 7, 2004
SURVEY CREW: Sierra Koch, Valerie Montague
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 13.7 km²
USGS MAPS: Nickel Mountain
ECOREGION: Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Catching Creek habitat survey extended 556 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 5.2 (range: 3.5-7.0). Land use for the reach was large (30-50 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 2.5 percent. Riffles (25%), rapids (25%) and scour pools (24%) dominated stream habitat. Gravel (34%) and cobble (28%) dominated stream substrate. Wood volume was low at 11.6 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

T31S-R06W-S04NE

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.2	VWI Range:	3.5 - 7

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	556	1,659	0
Secondary	138	481	6

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 3.0	Width: 6.6	8.1 (5.7 - 10.7)	11.4 (6.9 - 19.1)
Depth: 0.22	Height: 0.4	0.7 (0.5 - 0.9)	1.2 (1 - 1.4)

W:D ratio: 19.9

Stream Flow Type: LF

Average Unit Gradient: 2.5%

Water temperature (°C): 16.0 - 16.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 6.8

Habitat Units/100m (primary channel length): 8.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	ST
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	8%	Reach avg: 69%
Undercut Banks:	3%	Range: 14 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	47	8.5
Volume (m ³):	64	11.6
Key pieces (>=12m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

CATCHING CREEK POST-TX (U-127)

HABITAT INVENTORY

Report Date: 10/27/2004

Survey Date:

7/7/2004

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 CHANNEL	2	75	2.3	0.00	235	0	15	46	28	8	3	0
DRY UNIT	4	56	3.4	0.00	230	0	5	32	34	24	5	0
POOL-BACKWATER	1	7	2.5	0.35	16	0	35	35	30	0	0	0
POOL-LATERAL SCOUR	11	124	3.2	0.59	407	3	7	30	35	20	4	3
POOL-PLUNGE	1	3	6.2	0.50	20	0	9	64	27	0	0	0
POOL-STRAIGHT SCOUR	3	25	3.9	0.47	94	5	9	22	39	21	7	2
RAPID/BOULDERS	9	171	3.0	0.07	534	33	0	12	31	37	18	3
RIFFLE	11	206	2.6	0.08	536	26	0	12	33	38	15	1
STEP/COBBLE	5	27	2.3	0.05	68	5	1	10	42	31	16	0
Total:	47	694	3.0	0.22	2,140	72	Avg: 5	21	34	28	11	2

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	7	2.5	0.35	16	0.76%	0	0.0
Scour Pools	15	153	3.5	0.56	521	24.36%	8	1.5
Glides	0	0			0	0.00%	0	0.0
Riffles	11	206	2.6	0.08	536	25.02%	26	4.9
Rapids	9	171	3.0	0.07	534	24.97%	33	6.2
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	5	27	2.3	0.05	68	3.17%	5	7.4
Dry	6	131	3.0	0.00	465	21.72%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	16	23.1	28.8
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	7	10.1	12.6
Pool frequency (channel widths/pool):	6.5		
Residual pool depth (avg):	0.49		

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

REACH 1

Summary of Riparian Zone (0-30m)

3 transects

Total hardwoods/1000	813
Total conifers/1000 ft	528
Total conifers >20" dbh/1000 ft	20
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	2.0	6.3	1.3	1.7	3.0	0.7	6.3	8.7
15-30cm	0.3	2.7	0.3	0.3	1.0	0.3	1.7	3.3
30-50cm	0.0	0.7	0.3	0.7	0.0	0.0	0.3	1.3
50-90cm	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	2.7	9.7	2.0	2.7	4.0	1.0	2.9	4.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	31		23		17	
Shrub cover	50		36		32	
Grass/forb cover	28		68		58	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	17		33		67	
High terrace	83		67		33	
Low terrace	0		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 (%)	12		5		18	

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		
8	LF	1	HT	1	15	20	40	Conifer							COM HT 4 HS
								Hardwood	2						
8	LF	2	HS	12	15	65	35	Conifer	1						
								Hardwood	4						
8	LF	3	HS	20	0	10	90	Conifer							EST
								Hardwood							
8	RT	1	HT	0	90		10	Conifer					1		
								Hardwood	2	5					
8	RT	2	HT	0	80		90	Conifer	3						HS 2 M
								Hardwood							
8	RT	3	HS	40	75	10	25	Conifer	3	1					
								Hardwood	2						
21	LF	2	HT	1	5	35	65	Conifer							
								Hardwood	1	1					
21	LF	1	HT	2	0	80	20	Conifer							
								Hardwood	1						
21	RT	1	HT	2	15	50	50	Conifer	2						02 CHANNEL
								Hardwood	10						
21	RT	2	HT	1	10	20	80	Conifer							
								Hardwood							
21	RT	3	HS	15	20	60	40	Conifer	4						
								Hardwood							
21	LF	3	HT	2	0	40	60	Conifer							4
								Hardwood		1					COTTONWOOD SNAGS
32	RT	3	HS	30	5	60	40	Conifer	2	2					
								Hardwood							
32	RT	1	HS	65	55	10	40	Conifer	4	1					50% LEAF DEBRIS
								Hardwood	4	3					
32	RT	2	HS	15	20	40	60	Conifer		1	1				
								Hardwood							
32	LF	1	HT	2	10	90	10	Conifer							5M FP
								Hardwood			2				
32	LF	2	HT	1	5	20	80	Conifer							
								Hardwood			2				
32	LF	3	HT	1	0	10	90	Conifer							
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

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

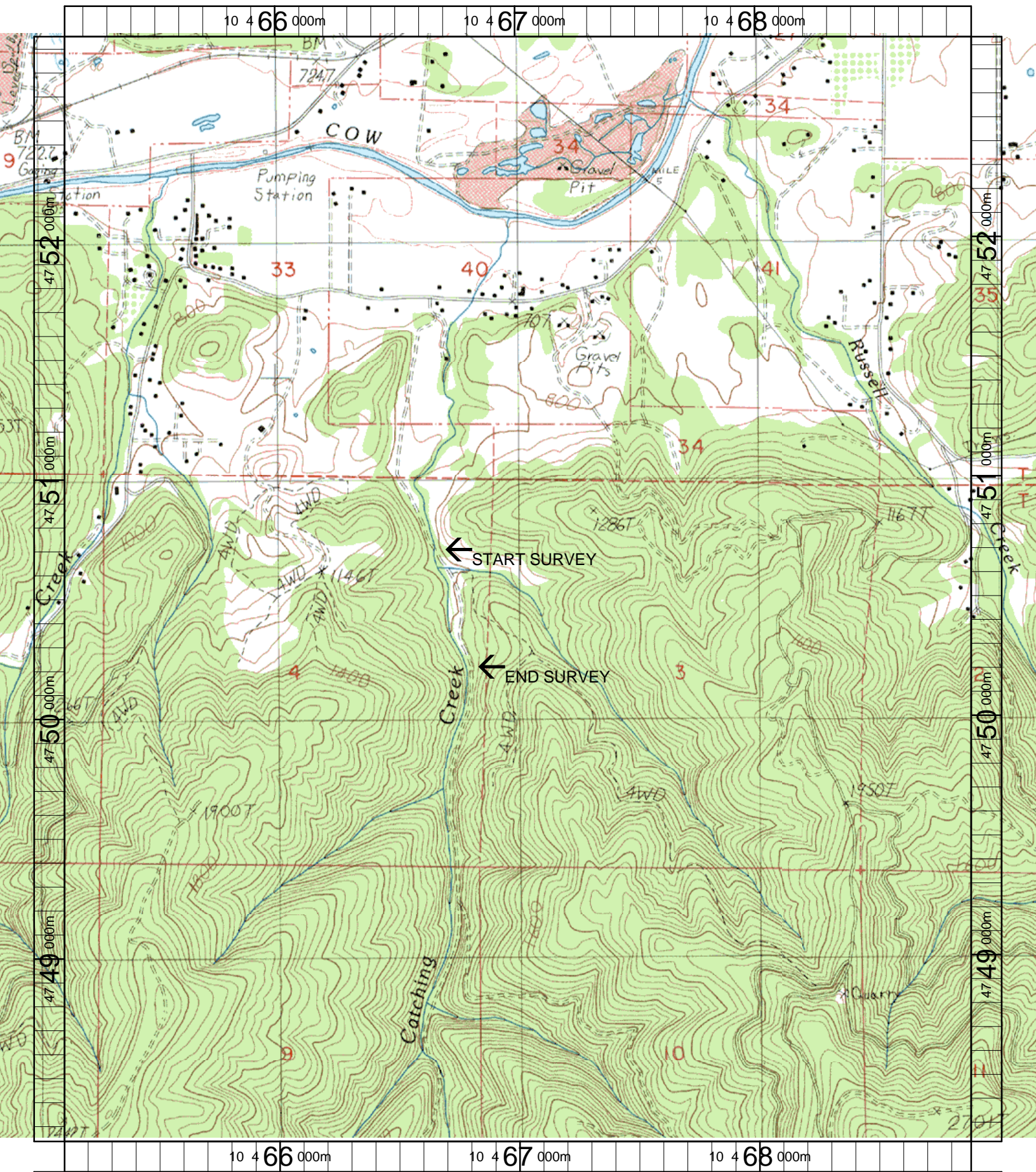
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	25.3	BC	BRIDGE INFLUENCE	START SP SURVEY SIGN AL
3	LP	00	58.3	HS	METRICS UNIT 3	3 PIECES LOGS, BLUE FLAG
4	LP	00	69.5		T=16 DEG C	
5	RB	00	94.2			FISH
7	RB	00	116.7			BDRCK= HARDPAN
8	SP	00	123.6	HS	0466661, 4750729	BDRCK= HARDPAN 1 LOG
9	RI	01	141.9	WL	PGS 10 CM	SNAILS
10	RB	01	161.6			HARDPAN= BDRCK
11	LP	00	176.8			FISH
13	LP	01	201.7	HS		6 PIECES WOOD, TROUT
14	DU	02	201.7			OVERGROWN
18	SP	00	234.4			MONKEY FLOWERS
19	RI	00	247.3			ACW=2.0M
20	SC	00	252.9	TJ/		NOT SURVEYED- DRY FOUN
22	SC	00	270		2D 0466673, 4750623	
23	RI	01	297.3	RF		SNAILS, CUT, OLD RF
24	DC	02	297.3		UNKNOWN TROUT FRY	
26	LP	01	307.6	WL, HS	1 INCH GREEN FROG	YELLOW JACKETS 4 LOGS
28	RI	00	330.8	WL	NUMEROUS UNKNOWN F	FROG, FISH
31	LP	00	373.5		WETTED=0.0M	6 TROUT- 10 CM
32	RB	00	387.4		3D 0466704, 4750523	

Comment Summary

Oregon Plan Monitoring Sites 2002

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>
36	PP	01	446.1	DJ		FREE DJ, NO STEP
37	RB	01	459.9		NO STEP BEFORE PP	FOR PP
40	SP	01	487.7	HS, DJ		4 LOGS
41	DC	02	487.7			PARTS VERY OLD AND OVE
42	DU	10	487.7		DRY BUT LOOKED LIKE B	OFF OF O2 CHANNEL
45	RB	00	530.2	HS		1 LOG, FADED FLAG
46	LP	00	540.3	HS		1 LOG
47	LP	00	555.9		METRICS END OF SURV	5 FISH, END OF SURVEY



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