

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

STREAM: Papoose Creek (SC-275)  
BASIN: Euchre Creek  
SURVEY TYPE: Pre-Tx  
DATE: March 10, 2005  
SURVEY CREW: Jennifer Schmitt, Neil Jensen  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 1.0 km<sup>2</sup>  
USGS MAPS: Brushy Bald Mountain  
ECOREGION: Coast Range Coastal Uplands

**GENERAL DESCRIPTION:**

The Papoose Creek habitat survey extended 568 meters. The channel was constrained by terraces and land use (road) in a broad valley floor. The average valley width index was 9.6 (range: 6.3-14.2). Land use for the reach was timber harvest and large (30-50 cm dbh) trees. The average unit gradient was 4.7 percent. Scour pools (32%), rapids (26%) and cascades (26%) dominated stream habitat. Gravel (36%), sand (31%) and silt (26%) dominated stream substrate. Wood volume was low at 10.2 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T35S-R14W-S21SW

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	9.6	VWI Range:	6.3 - 14.2

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	0%		
Landuse	100%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	568	796	0
Secondary Channel	0	0	0
Off-Channel Units	18	15	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 1.6	Width: 2.3	4.9 ( 2.7 - 8.3 )	6.6 ( 3.4 - 9 )
Depth: 0.20	Height: 0.4	0.9 ( 0.82 - 0.94 )	1.4 ( 0.99 - 1.9 )

W:D ratio: 5.3  
 Stream Flow Type: LF  
 Average Unit Gradient: 4.7%  
 Water temperature (°C): 10.0 - 10.0

Entrenchment (ACW:FPW ratio): 2.1  
 Habitat Units/100m (total channel length): 9.2  
 Habitat Units/100m (primary channel length): 9.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	LT
Riparian Vegetation:	D1	S

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 primary channel</u>
All pieces (>=3m x 0.15m):	91	16.0
Volume (m <sup>3</sup> ):	58	10.2
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPT OF FISH AND WILDLIFE

PAPOOSE CREEK PRE-TX (5-SC, 275)

HABITAT INVENTORY

Report Date: 11/29/2005

Survey Date:

3/10/2005

REACH 1		T35S-R14W-S21SW					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	12	177	1.1	0.08	210	0	24	29	43	4	1	0
CULVERT CROSSING	1	47	0.5	0.05	24	0	0	0	0	0	0	100
POOL-LATERAL SCOUR	13	99	1.9	0.39	190	0	40	43	17	0	0	0
POOL-PLUNGE	6	20	3.3	0.54	70	0	26	38	36	0	0	0
RAPID/BOULDERS	7	157	1.2	0.06	209	0	25	21	48	3	1	3
RIFFLE	7	81	1.2	0.11	101	0	32	32	34	2	0	0
STEP/BOULDERS	1	0	0.2	0.10	0	0	11	16	32	0	42	0
STEP/COBBLE	2	3	1.4	0.05	5	0	5	3	85	8	0	0
STEP/LOG	4	2	1.5	0.02	2	0	15	35	50	0	0	0
STEP/STRUCTURE	1	0	0.5	0.05	0	0	0	0	0	0	0	100
<b>Total:</b>	<b>54</b>	<b>586</b>	<b>1.6</b>	<b>0.20</b>	<b>811</b>	<b>0</b>	<b>Avg: 26</b>	<b>31</b>	<b>36</b>	<b>2</b>	<b>1</b>	<b>4</b>

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	19	119	2.4	0.44	260	32.11%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	7	81	1.2	0.11	101	12.46%	0	0.0	
Rapids	7	157	1.2	0.06	209	25.82%	0	0.0	
Cascades	12	177	1.1	0.08	210	25.85%	0	0.0	
Step/Falls	8	6	1.2	0.04	7	0.83%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	47	0.5	0.05	24	2.92%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	19	32.4	33.4
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	10.2	10.6
Pool frequency (channel widths/pool):	13.1		
Residual pool depth (avg):	0.36		

# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: **5-SC**      SITE ID: **275**      PAPOOSE CREEK PRE-TX

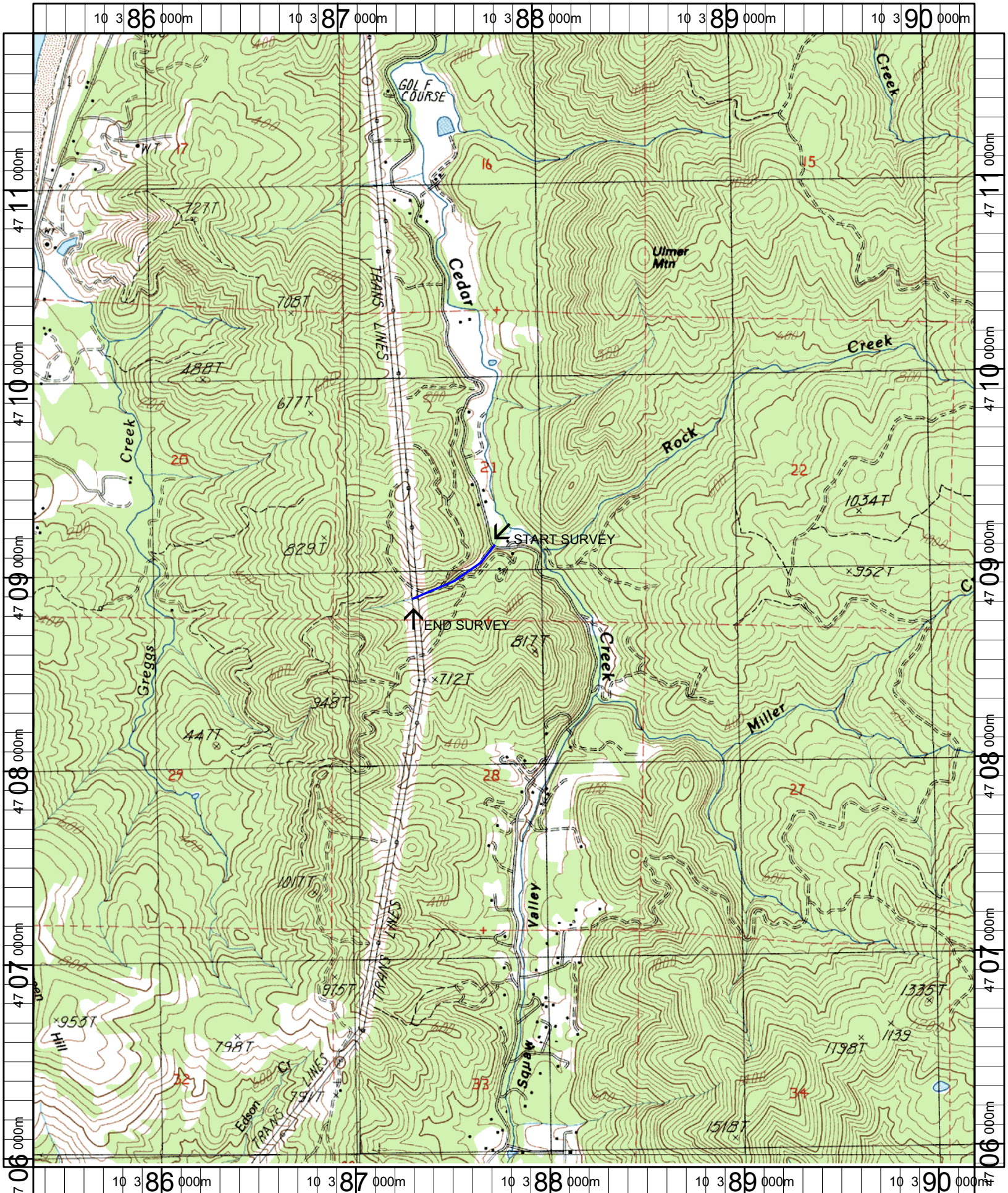
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
2	SS	00	4.4			H=0.6m, CULVERT: .89 x .89
3	CC	00	51.7	CC		CEDAR CR. RD
4	RB	01	77.4	/CE,TJ		CLCT D15D1 LGST
5	CB	11	77.4			ACW=2.2m ACH=0.3m
10	PP	00	104.1	/LA		4M x 3M
11	SL	00	104.8			H=0.48m
13	CB	00	125.4	LI/		6M x 3M
16	LP	00	132.6	LI/		2m x 4m
19	SL	00	144.2	DJ		H=1.3m
21	SL	00	153.95			H=0.38m
22	PP	00	159.35	/SS		
23	SL	00	159.85			H=0.65m
25	RB	00	219.45	LS/		CACT D1S THST
26	LP	00	231.65	WL LI/		SALAMANDER
27	RI	00	250.05	LA/		4m x 2m
29	SB	00	256.15			H=0.19m
30	LP	01	276.95	LI,TJ/		8m x 4m
31	CB	11	276.95			ACW=2.25m ACH=0.23m
33	CB	00	301.75	LS/		
34	LP	00	311.15			CACT M30D3 THLT
35	RI	00	324.35	WL		COUGAR TRACKS

# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: 5-SC      SITE ID: 275      PAPOOSE CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
36	RB	00	354.35	SS/		
39	LP	00	394.45	/SS WL	SALMONID FRY, PGS	
43	LP	00	438.45		CLCT D1S THLT	
44	PP	00	442.15		SMALL STEP BTW POOLS	
45	CB	00	465.15	CE/SS		
50	CB	00	514.75	/SS WL	HUMMINGBIRDS	
51	CB	00	534.95	WL	SHREW	
52	RI	00	550.35	LI/	3m x 2m	
54	RB	00	568.45		CLCT M30S THLT	



Name: BRUSHY BALD MT  
 Date: 1/6/2005  
 Scale: 1 inch equals 2000 feet

Location: 10 387808 E 4708844 N  
 Caption: PAPOOSE CREEK RESTORATION SITE - EUCHRE CREEK BASIN