

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

STREAM: Rogue River Tributary C (S-240)  
BASIN: Rogue River  
SURVEY TYPE: Post-Tx  
DATE: June 15, 2005  
SURVEY CREW: Justin Gerding, Greg Ryder  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 0.5 km<sup>2</sup>  
USGS MAPS: Signal Buttes  
ECOREGION: Coast Range Sitka Spruce

**GENERAL DESCRIPTION:**

The Rogue River Tributary C habitat survey extended 481 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 12.6 (range: 1.0-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 5.8 percent. Riffles (44%), rapids (23%) and cascades (21%) dominated stream habitat. Cobble (32%), gravel (24%) and sand (24%) dominated stream substrate. Wood volume was very low at 5.2 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T36S-R14W-S11SW

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	12.6	VWI Range:	1 - 20

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 Channel	481	769	0
Secondary Channel	20	20	2
Off-Channel Units	4	6	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 1.6	Width: 3.7	5.7 ( 4.2 - 7.1 )	7.3 ( 6.3 - 8.6 )
Depth: 0.16	Height: 0.4	0.8 ( 0.6 - 1 )	1.1 ( 0.9 - 1.4 )

W:D ratio: 9.4  
 Stream Flow Type: LF  
 Average Unit Gradient: 5.8%  
 Water temperature (°C): 13.0 - 13.0

Entrenchment (ACW:FPW ratio): 1.6  
 Habitat Units/100m (total channel length): 6.7  
 Habitat Units/100m (primary channel length): 7.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	M15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	1%	Reach avg: 87%
Undercut Banks:	0%	Range: 39 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	44	9.2
Volume (m <sup>3</sup> ):	25	5.2
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

Report Date: 4/26/2006

Survey Date:

6/15/2005

REACH 1		T36S-R14W-S11SW					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	5	96	1.6	0.14	165	48	0	20	15	31	34	0
CULVERT CROSSING	1	25	1.5	0.05	38	0	0	30	25	40	5	0
DRY UNIT	1	11	1.0	0.00	11	1	0	50	22	22	6	0
POOL-BACKWATER	2	4	1.6	0.40	6	4	0	38	8	10	45	0
POOL-LATERAL SCOUR	2	7	1.7	0.35	11	1	3	25	18	50	5	0
POOL-PLUNGE	4	12	1.9	0.35	25	8	0	38	18	23	23	0
PUDDLED UNIT	1	9	1.0	0.10	9	0	0	20	35	30	15	0
RAPID/BOULDERS	7	112	1.7	0.11	182	40	0	16	28	32	24	0
RIFFLE	11	229	1.5	0.08	349	9	0	21	32	37	10	0
<b>Total:</b>	<b>34</b>	<b>504</b>	<b>1.6</b>	<b>0.16</b>	<b>795</b>	<b>111</b>	<b>Avg: 0</b>	<b>24</b>	<b>24</b>	<b>32</b>	<b>19</b>	<b>0</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	2	4	1.6	0.40	6	0.80%	4	62.5	
Scour Pools	6	19	1.8	0.35	36	4.54%	9	24.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	11	229	1.5	0.08	349	43.86%	9	2.6	
Rapids	7	112	1.7	0.11	182	22.83%	40	22.0	
Cascades	5	96	1.6	0.14	165	20.76%	48	29.1	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	2	20	1.0	0.05	20	2.45%	1	5.1	
Culverts	1	25	1.5	0.05	38	4.75%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	8	15.9	16.6
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	1	2.0	2.1
Pool frequency (channel widths/pool):	17.2		
Residual pool depth (avg):	0.28		

Survey Date 6/15/2005  
Report Date: 4/26/2006

**RIPARIAN ZONE  
VEGETATION SUMMARY**

REACH 1

**Summary of Riparian Zone (0-30m) 3 transects**

Total hardwoods/1000	894
Total conifers/1000 ft	772
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	0.3	1.3	0.3	5.0	0.3	2.3	1.0	8.7
15-30cm	1.3	3.0	4.3	0.7	5.0	1.0	10.7	4.7
30-50cm	0.0	1.0	0.3	0.0	0.3	0.3	0.7	1.3
50-90cm	0.0	0.0	0.0	0.0	0.3	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	1.7	5.3	5.0	5.7	6.0	3.7	4.2	4.9

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	90		97		90	
Shrub cover	23		20		25	
Grass/forb cover	27		10		18	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	83		33		17	
High terrace	17		67		83	
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 (%)	48		20		7	

**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	894
Total conifers/1000 ft	772
Total conifers >20" dbh/1000 ft	20
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	1.0	8.7
15-30cm	10.7	4.7
30-50cm	0.7	1.3
50-90cm	0.3	0.0
>90cm	0.0	0.0

**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		
6	LF	1	HT	0	60	10	80	Conifer		2					
								Hardwood		2	1				
6	LF	2	HT	0	100	10	10	Conifer							
								Hardwood							
6	LF	3	HT	0	100	0	20	Conifer					1		
								Hardwood		1	1				
6	RT	1	HS	25	100	10	10	Conifer							
								Hardwood		1	2				
6	RT	2	HT	0	100	0	10	Conifer			1				
								Hardwood	3	1					
6	RT	3	HT	0	80	40	10	Conifer	1	2					
								Hardwood							
17	LF	1	HS	100	80	20	10	Conifer							
								Hardwood							
17	RT	3	HT	0	100	80	0	Conifer		6					YOUNG DOUG FIR
								Hardwood							
17	RT	2	HT	0	100	80	0	Conifer		5					YOUNG DOUG FIR
								Hardwood							
17	RT	1	HS	45	100	80	0	Conifer							ZONE ESTIMATED
								Hardwood							
17	LF	2	HT	0	100	10	0	Conifer	1	3					
								Hardwood	7	1					
17	LF	3	HT	0	100	10	0	Conifer		4					
								Hardwood	1						
28	LF	1	HS	60	100	0	40	Conifer	1	2					
								Hardwood		3					
28	RT	2	HS	60	100	20	20	Conifer		3					
								Hardwood	2						
28	RT	1	HS	60	100	20	20	Conifer							
								Hardwood	4	3					
28	LF	2	HS	60	80	0	20	Conifer		1	1				
								Hardwood	3						
28	RT	3	HT	0	80	20	60	Conifer							ALSO OLD LOGGING ROAD
								Hardwood	3	1					
28	LF	3	HS	40	80	0	20	Conifer		3	1				
								Hardwood	3	1					

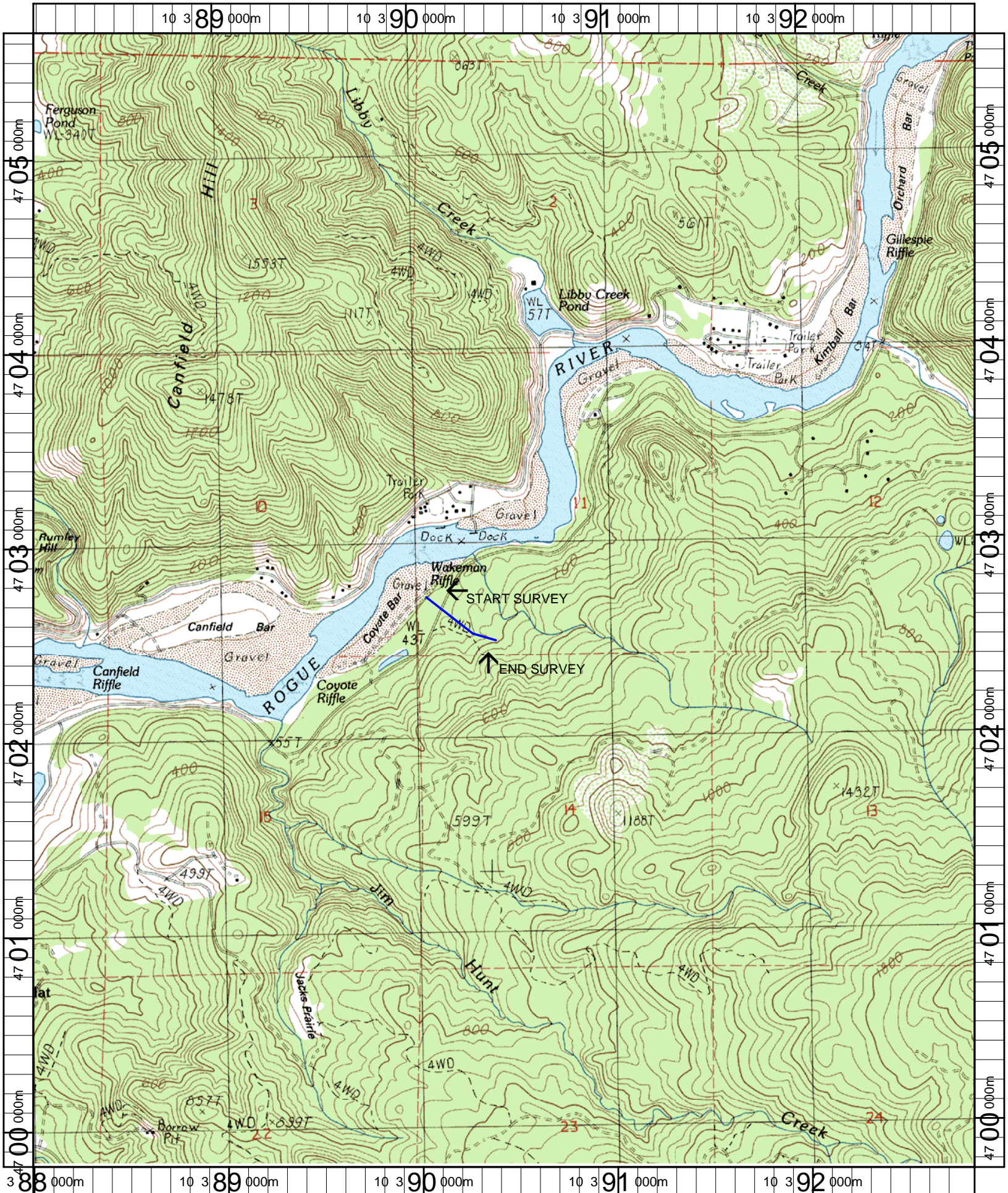
# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: **5-SC**      SITE ID: **240**      **ROGUE RIVER TRIB C POST-TX**

<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	RI	00	25			T = 13 C
5	LP	00	91.3			TROUT
7	RI	00	126.6		NO STEP INTO CULV	
8	CC	00	151.8	CC	CULV WIDTH=2.9M, HEIG	
9	RI	00	160.1	CS/CS		TROUT
31	PP	00	435.7			TROUT FRY
33	BW	10	460.7			TROUT FRY





Name: SIGNAL BUTTES  
 Date: 5/2/2006  
 Scale: 1 inch equals 2000 feet

Location: 10 390457 E 4702701 N  
 Caption: ROGUE RIVER TRIBUTARY C RESTORATION SITE - ROGUE BASIN