

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

STREAM: Salmon Creek (MS-235)  
BASIN: Coquille River  
SURVEY TYPE: Pre-Tx  
DATE: February 3, 2004  
SURVEY CREW: Michael Scheu, Jeremiah Bernier  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 57.5 km<sup>2</sup>  
USGS MAPS: Powers, China Flat  
ECOREGION: Coast Range California Extension

**GENERAL DESCRIPTION:**

The Salmon Creek habitat survey extended 822 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 9.3 (range: 1.6-25.0). Land use for the reach was rural residential and large (30-50 cm dbh) trees. The average unit gradient was 1.0 percent. Riffles (41%) and scour pools (28%) dominated stream habitat. Cobble (44%) and gravel (39%) dominated stream substrate. Wood volume was very low at 1.3 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T13S-R12W-S24NW

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	9.3	VWI Range:	1.6 - 25

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	822	9,532	0
Secondary	228	1,136	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.9	Width: 22.9	35.9 ( 26 - 43 )	40.3 ( 27 - 53 )
Depth: 0.60	Height: 1.2	2.4 ( 2 - 3 )	3.9 ( 2.1 - 7 )

W:D ratio: 19.2  
Stream Flow Type: MF  
Average Unit Gradient: 1.0%  
Water temperature (°C): 7.0 - 7.0

Entrenchment (ACW:FPW ratio): 1.6  
Habitat Units/100m (total channel length): 3.0  
Habitat Units/100m (primary channel length): 3.8

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	LT
Riparian Vegetation:	D15	C30

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):	29	3.5
Volume (m <sup>3</sup> ):	11	1.3
Key pieces (>=12m x 0.60m):	0	0.0

**OREGON DEPARTMENT OF FISH AND WILDLIFE**

**SALMON CREEK PRE-TX (MS-235)**

**HABITAT INVENTORY**

Report Date: 6/16/2004

Survey Date:

2/3/2004

**REACH 1**

**T13S-R12W-S24NW**

**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
DRY UNIT	1	102	5.0	0.00	510	0	20	75	5	0	0	0
POOL-BACKWATER	2	32	5.0	0.78	156	0	11	19	28	43	0	0
POOL-LATERAL SCOUR	9	301	10.1	1.10	2,952	0	0	14	49	28	4	5
POOL-PLUNGE	1	9	7.0	0.80	60	0	0	5	48	29	0	19
RAPID/BOULDERS	3	132	11.1	0.43	1,528	0	0	2	22	68	8	0
RIFFLE	10	399	10.6	0.39	4,408	0	0	5	43	49	1	1
STEP/COBBLE	5	76	11.3	0.27	1,054	0	0	3	35	61	0	1
<b>Total:</b>	<b>31</b>	<b>1,050</b>	<b>9.9</b>	<b>0.60</b>	<b>10,668</b>	<b>0</b>	<b>Avg: 1</b>	<b>10</b>	<b>39</b>	<b>44</b>	<b>2</b>	<b>3</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	32	5.0	0.78	156	1.46%	0	0.0
Scour Pools	10	309	9.8	1.07	3,012	28.23%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	10	399	10.6	0.39	4,408	41.32%	0	0.0
Rapids	3	132	11.1	0.43	1,528	14.33%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	5	76	11.3	0.27	1,054	9.88%	0	0.0
Dry	1	102	5.0	0.00	510	4.78%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

**POOL SUMMARY**

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	12	11.4	14.6
Pools >=1m deep:	7	6.7	8.5
Complex pools (LWD pieces>=3):	1	1.0	1.2
Pool frequency (channel widths/pool):	3.8		
Residual pool depth (avg):	0.60		

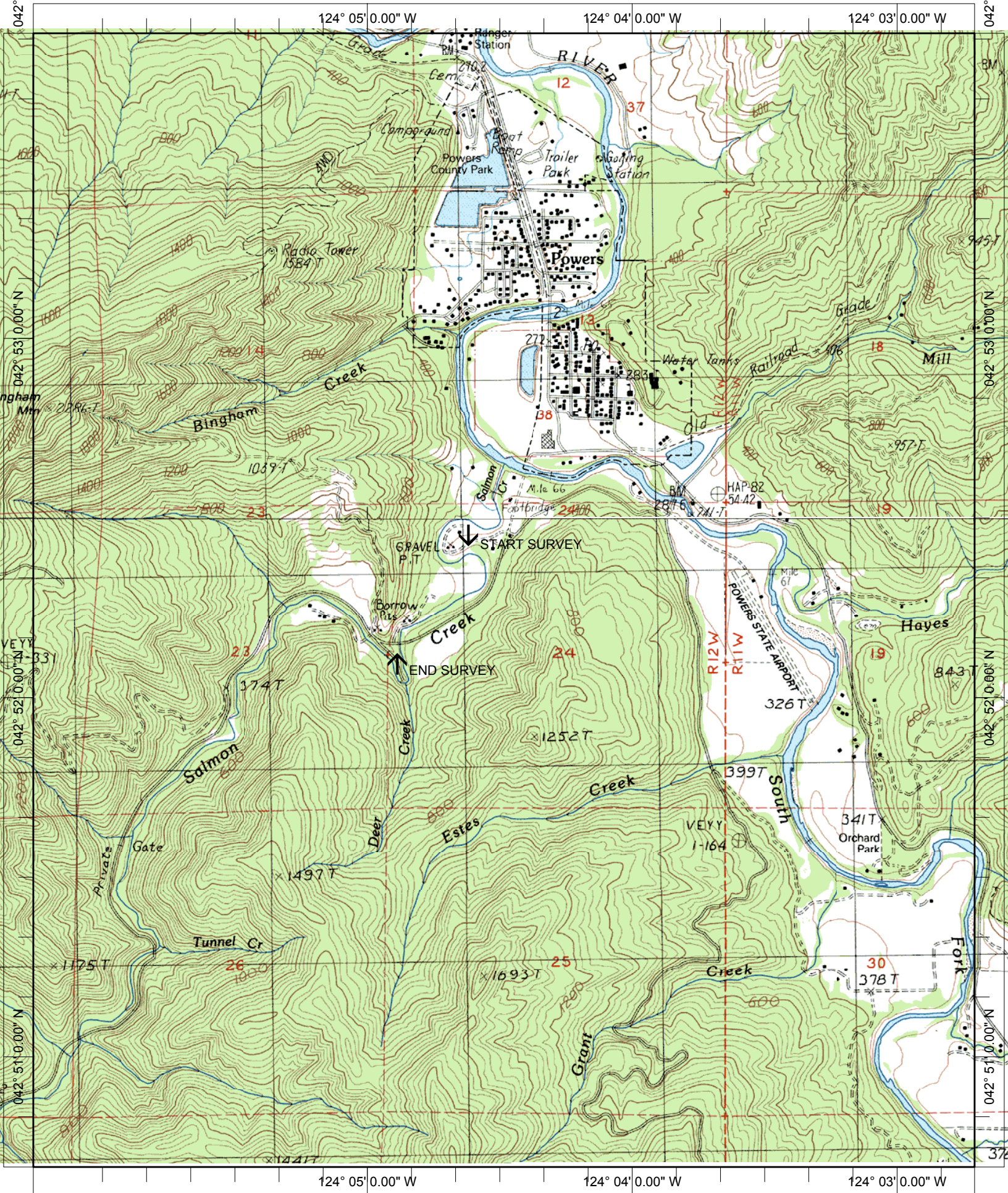
# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS**      SITE ID: **235**      **SALMON CREEK PRE-TX (MS-235)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SC	00	16		T=7C; CARCASS	
4	BW	10	73.3		MARGINAL BW	
5	RI	01	121.3		CARCASS	
6	BW	10	121.3		HERON PRINTS	
14	LP	00	197.1	CE/-		
15	SC	00	216.6		CARCASS	
19	RI	00	386.6		CARCASS	
22	LP	01	498.2	SS/-		
24	RI	00	543.2	SS/-		
25	RI	00	582	SS/-		
27	RB	00	658.6	LS/-	CARCASS	
28	LP	00	694.4	-/CS	BORROW PIT RIGHT	
31	RB	00	821.8	-/CS	BC	





Name: CHINA FLAT  
 Date: 8/4/2004  
 Scale: 1 inch equals 2000 feet

Location: 042° 52' 16.2" N 124° 04' 29.1" W  
 Caption: SALMON CREEK RESTORATION SITE - SF COQUILLE BASIN