

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

STREAM: Lane Creek (UMP-41)  
BASIN: Umpqua River  
SURVEY TYPE: Post-Tx  
DATE: February 11, 2007  
SURVEY CREW: Bill Jones, Joanne Lowden  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 6.6 km<sup>2</sup>  
USGS MAPS: Canyonville  
ECOREGION: Klamath Mountains Umpqua Interior Foothills

**GENERAL DESCRIPTION:**

The Lane Creek habitat survey extended 499 meters. The channel was alternately constrained by hillslope and terrace in a broad valley floor. The average valley width index was 17 (range: 15-20). Land use for the reach was large timber (30-50 cm dbh) and heavy grazing. The average unit gradient was 1.6 percent. Riffles (66%) and scour pools (34%) dominated stream habitat. Gravel (73%) and cobble (13%) dominated stream substrate. Wood volume was low at 13.9 m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures during the survey.

Stream Lane Creek (U-41)  
 Basin Umpqua River  
 Treatment Large Wood and Boulders

	ODFW Benchmark		Pre	Post	Post		
Habitat Variable	Desirable	Undesirable	3/8/00	2/21/01	2/11/07		
% Pool Area	>35%	<10%	38.5	47.5	<b>34.0</b>		
Number of Pools			30	23	<b>13</b>		
Deep Pools/km (>1.0 m)			0.0	0.0	0.0		
% Off-Channel			2.3	2.1	<b>0.0</b>		
LWD – Pieces/100m	>20	<10	10.2	12.7	14.6		
LWD – Volume/100m	>30	<20	6.4	18.3	<b>13.9</b>		
LWD – Key Pieces/100m	>3	<1	0.4	0.2	0.0		
Large Wood Jams/km			6.0	0			
% Riffle Fines	<10	>20	20	23	2		
% Riffle Gravel	>35	<15	44	66	<b>80</b>		
% Bedrock			0	1	0		

**Bold** is noticeable change

Comments: Pool area and the number of pools appear to have decreased since treatment, but these lower numbers may be in part due to variable stream flow levels between survey years. Off channel habitat is also lower since treatment, as is large wood volume. However, riffle gravel appears to have accumulated when compared to pre-treatment conditions.

REACH 1

T30S-R06W-S51NW

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	17.0	VWI Range:	15 - 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	499	1,226	0
Secondary Channel	0	0	0
Off-Channel Units	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 2.8	Width: 4.0	7.3 ( 4.5 - 15 )	8.3 ( 4.95 - 12.25 )
Depth: 0.29	Height: 0.3	0.7 ( 0.6 - 0.9 )	1.7 ( 1.05 - 2.3 )

W:D ratio: 12.2

Entrenchment (ACW:FPW ratio): 1.9

Stream Flow Type: MF

Habitat Units/100m (total channel length): 7.0

Average Unit Gradient: 1.6%

Habitat Units/100m (primary channel length): 7.0

Water temperature (°C): 7.0 - 7.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	HG
Riparian Vegetation:	M15	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):	73	14.6
Volume (m <sup>3</sup> ):	69	13.9
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPT OF FISH AND WILDLIFE

LANE CREEK POST-TX (4-UMP, 41)

HABITAT INVENTORY

Report Date: 4/25/2007

Survey Date:

2/11/2007

REACH 1		T30S-R06W-S51NW					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
POOL-LATERAL SCOUR	13	113	3.7	0.59	416	0	8	15	66	8	3	0
RIFFLE	15	230	2.2	0.11	495	0	0	2	80	15	3	0
RIFFLE W/ POCKETS	6	155	2.0	0.15	313	0	0	3	77	17	4	0
STEP/LOG	1	1	3.0	0.05	2	0	50	0	25	25	0	0
<b>Total:</b>	<b>35</b>	<b>499</b>	<b>2.8</b>	<b>0.29</b>	<b>1,226</b>	<b>0</b>	<b>Avg: 4</b>	<b>7</b>	<b>73</b>	<b>13</b>	<b>3</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	0	0			0	0.00%	0	0.0	
Scour Pools	13	113	3.7	0.59	416	33.96%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	21	385	2.2	0.12	808	65.90%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	1	1	3.0	0.05	2	0.13%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY				
	<u>Total</u>	Total of all Channel Lengths		Primary Channel Length
		<u># / Km</u>		<u># / Km</u>
All Pools:	13	26.1		26.1
Pools >=1m deep:	0	0.0		0.0
Complex pools (LWD pieces>=3):	5	10.0		10.0
Pool frequency (channel widths/pool):	9.7			
Residual pool depth (avg):	0.47			

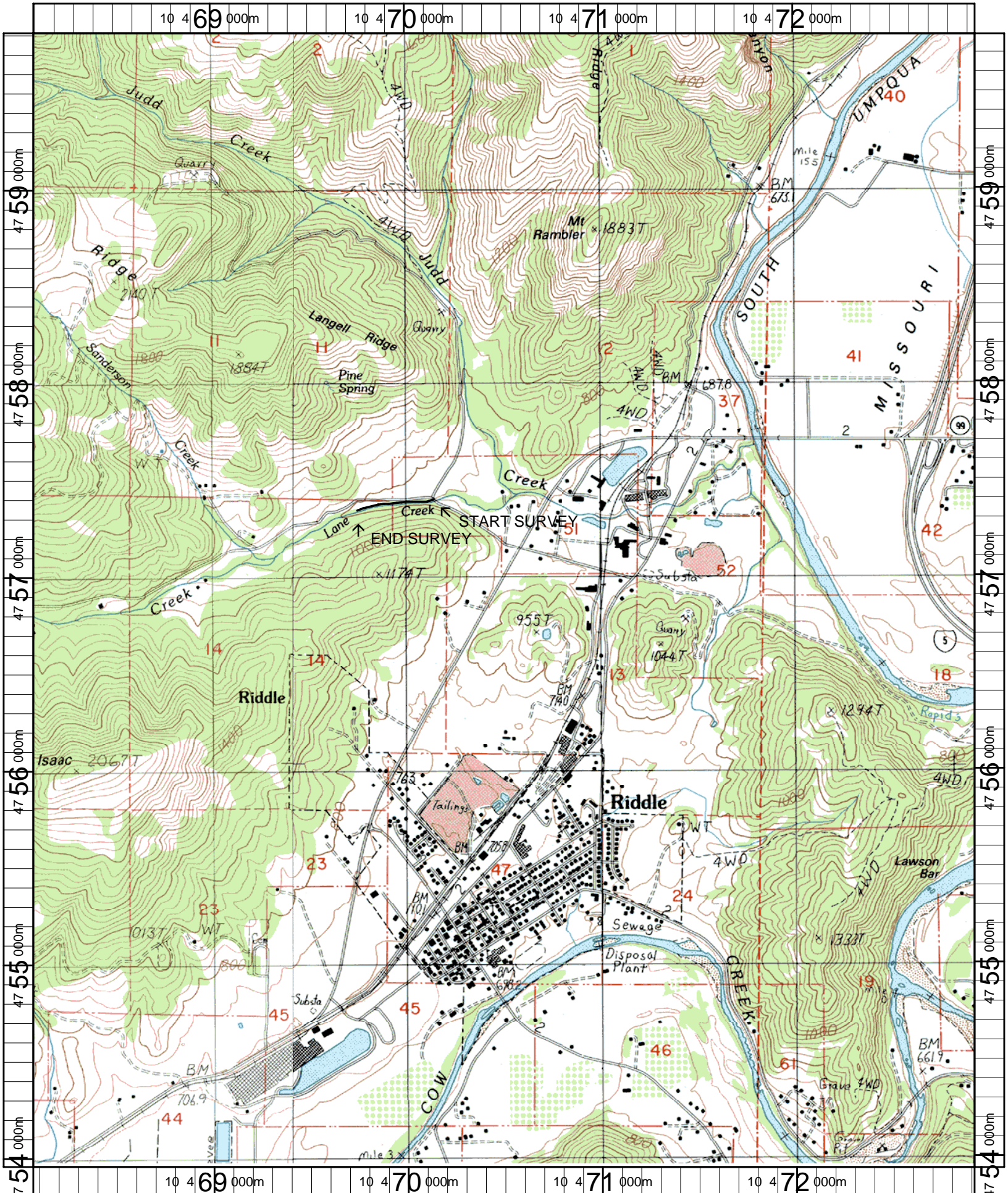
# Comment Summary

## Restoration Monitoring Sites 2007

MONITORING AREA: 4-UMP    SITE ID: 41    LANE CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
7	RP	00	83.2	HS	CABLED LOGS
9	LP	00	100.2	HS	
11	LP	00	120.2	CS, HS	RIPRAP FOR ROAD EROSION
12	RI	00	148.7	HS	
13	LP	00	160.7	HS	NO TERRACES RIGHT SIDE
14	RP	00	187.7	HS	
16	LP	00	216.7	HS	
20	LP	00	257.2	/TJ	
22	SL	00	299.75		H=0.30M
23	RI	00	313.75	HS	
28	RP	00	434.75	HS	
29	RP	00	446.25	HS	
32	LP	00	474.95	HS	





Name: CANYONVILLE  
 Date: 4/26/2007  
 Scale: 1 inch equals 2000 feet

Location: 10 0470502 E 4756876 N  
 Caption: LANE CREEK RESTORATION SITE - SOUTH UMPQUA BASIN