

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

STREAM: Slide Creek (U-186)  
BASIN: South Umpqua River  
SURVEY TYPE: Pre-Tx  
DATE: June 30, 2003  
SURVEY CREW: Pete Baki, Scott Kirby  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 20.1 km<sup>2</sup>  
USGS MAPS: Dodson Butte  
ECOREGION: Coast Range Klamath Siskiyou

**GENERAL DESCRIPTION:**

The Slide Creek habitat survey extended 615 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 6.5 (range: 4.5-8.0). Land use for the reach was mature (50-90 cm dbh) trees. The average unit gradient was 1.0 percent. Scour pools (45%) and riffles (39%) dominated stream habitat. Sand (47%) and gravel (35%) dominated stream substrate. Wood volume was low at 7.7 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T28S-R04W-S35NW

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	6.5	VWI Range:	4.5 - 8

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	615	1,744	0
Secondary	39	49	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.8	Width	5.0	8.1	11.1
Depth	0.33	Height	0.5	0.9	1.7
		W:D ratio	10.6	Entrenchment	1.7

Stream Flow Type: MF                      Water temp (C): 15.0 - 15.0  
 Avg. Unit Gradient: 1.0%                      Habitat Units/100m: 7.3

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	MT	
Riparian Vegetation:	M30	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	3%	Reach avg: 93%
Undercut Banks:	16%	Range: 78 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	71	11.5
Volume (m <sup>3</sup> ):	47	7.7
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

SLIDE CREEK PRE-TX (U-186)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

6/30/03

REACH 1		T28S-R04W-S35NW					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	
GLIDE	2	31	3.4	0.17	94	1	0	29	66	2	0	2	
POOL-BACKWATER	3	14	2.0	0.19	24	0	47	50	0	0	0	3	
POOL-BEAVER DAM	1	20	6.2	1.20	122	0	30	65	5	0	0	0	
POOL-LATERAL SCOUR	16	243	3.0	0.58	725	0	5	60	29	2	0	4	
POOL-PLUNGE	2	13	4.7	0.53	66	1	0	58	30	3	0	10	
POOL-STRAIGHT SCOUR	1	5	4.9	0.41	23	0	0	67	17	0	0	17	
RIFFLE	19	316	2.2	0.16	701	0	2	36	51	2	0	9	
STEP/BEAVER DAM	1	1	2.9	0.01	3	0	40	40	20	0	0	0	
STEP/BEDROCK	2	11	2.9	0.03	35	0	3	3	0	0	0	95	
STEP/LOG	1	0	2.1	0.01	1	0	10	90	0	0	0	0	
<b>Total:</b>	48	654	2.8	0.33	1,794	2	<b>Avg</b>	7	47	35	2	10	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		39
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	4	34	3.1	0.45	146	8.12%	0	0.0	
Scour Pools	19	261	3.2	0.56	813	45.35%	1	0.1	
Glides	2	31	3.4	0.17	94	5.23%	1	1.1	
Riffles	19	316	2.2	0.16	701	39.09%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	4	13	2.7	0.02	40	2.22%	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>	<u># / Km</u>
All Pools:	23	35.1
Pools >=1m deep:	1	1.5
Complex pools (LWD pieces>=3):	6	9.2
Pool frequency (channel widths/pool):	5.7	
Residual pool depth (avg):	0.52	

**STREAM SUMMARY**

**SLIDE CREEK PRE-TX (U-186)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
48	654	2.8	0.33	1,794	7	47	35	2	0	10	2

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	146	8.12%
Scour Pools	813	45.35%
Glides	94	5.23%
Riffles	701	39.09%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	40	2.22%
Dry	0	0.00%
Culverts	0	0.00%

**RIPARIAN ZONE VEGETATION SUMMARY**

**REACH 1** **REACH 1**

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

Total hardwoods/1000	955
Total conifers/1000 ft	163
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	41

**Average number of trees in a 5-meter wide band**

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	2.7	0.3	4.0	0.0	4.3	0.3	11.0
15-30cm	0.0	1.0	0.3	1.3	0.7	1.7	1.0	4.0
30-50cm	0.3	0.7	0.3	0.0	0.0	0.0	0.7	0.7
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.3	0.0	0.3	0.0	0.0	0.0	0.7	0.0
Total/100m2	0.7	4.3	1.3	5.3	0.7	6.0	0.9	5.2

**Canopy closure and ground cover**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	73		70		80	
Shrub cover	71		73		62	
Grass/forb cover	16		5		13	

**Predominant landform in each zone**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		50	
High terrace	83		100		50	
Low terrace	17		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 (%)	0		0		17	

**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	955
Total conifers/1000 ft	163
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	41

**Average number of trees in a 5-m wide band**

<u>Diameter class (cm)</u>	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.3	11.0
15-30cm	1.0	4.0
30-50cm	0.7	0.7
50-90cm	0.0	0.0
>90cm	0.7	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		
11	LF	2	HT	0	40	100	0	Conifer							
								Hardwood	4	1					
11	LF	1	HT	0	20	100	0	Conifer							
								Hardwood							
11	LF	3	HS	30	85	80	20	Conifer							
								Hardwood	3	1					
11	RT	1	HT	0	95	95	5	Conifer							
								Hardwood	1	1					
11	RT	2	HT	0	95	90	10	Conifer							
								Hardwood	3						
11	RT	3	HS	25	90	90	10	Conifer							
								Hardwood	5	1					
23	LF	3	HT	0	90	0	30	Conifer							
								Hardwood	1						
23	LF	2	HT	0	60	10	20	Conifer			1	1			
								Hardwood	1						
23	RT	1	HT	0	50	100	0	Conifer							ESTIMATED
								Hardwood			2	1			
23	RT	2	HT	0	55	100	0	Conifer							ESTIMATED
								Hardwood	1	2					
23	RT	3	HT	0	70	100	0	Conifer							ESTIMATED
								Hardwood	3	1					
23	LF	1	LT	0	95	10	90	Conifer				1			
								Hardwood	4						
34	LF	1	HT	0	85	100	0	Conifer							1
								Hardwood			1				
34	LF	2	HT	0	75	100	0	Conifer	1						1
								Hardwood							
34	LF	3	HS	45	50	60	20	Conifer							
								Hardwood							
34	RT	1	HT	0	95	20	0	Conifer							
								Hardwood	3						
34	RT	3	HT	0	95	40	0	Conifer							
								Hardwood	1	2					
34	RT	2	HT	0	95	40	0	Conifer							
								Hardwood	3	1					

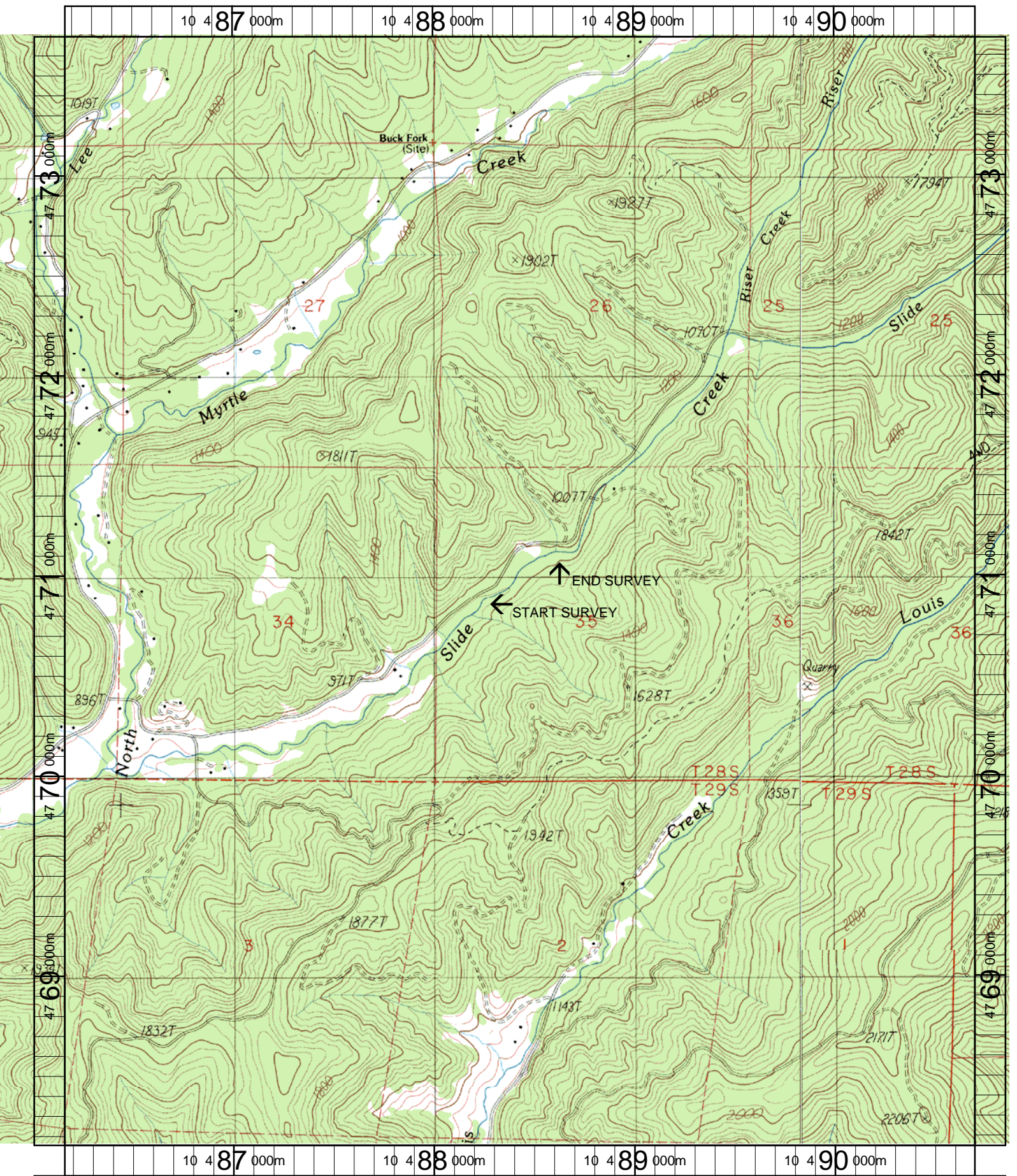
# Comment Summary

## Oregon Plan Monitoring Sites 2003

MONITORING AREA: **4-UMP**    SITE ID: **186**    **SLIDE CREEK PRE-TX (U-186)**

<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	PP	00	8.1			START SIGN LEFT SIDE
2	SR	00	12.3		H=1.3 M	
9	RI	00	113.1	DJ		
14	PP	01	168.7	BV		
15	SD	01	169.9	BV, BD	H=.5 M	PINK FLAG 40 LP
16	BP	01	189.5	BV		BLUEWHITE FLAG; PINK FLA
29	LP	01	322.5	DJ		
37	LP	00	458.7	DJ		
38	SL	00	459.1		H=.4 M	
45	LP	00	575.9	DJ		RED FLAG LP 60
48	RI	00	615.2	TJ/	REACH PHOTO 0006	WE POSTED END SIGN





Name: DODSON BUTTE  
 Date: 12/17/2003  
 Scale: 1 inch equals 2000 feet

Location: 10 488426 E 4770926 N  
 Caption: SLIDE CREEK RESTORATION SITE - S. UMPQUA BASIN