

**ODFW AQUATIC INVENTORY PROJECT
RESTORATION MONITORING
STREAM HABITAT REPORT**

STREAM: SLIDE CREEK
 GCG: 4-UMP
 SITE ID: 186
 BASIN: SOUTH UMPQUA
 TREATMENT DATE: 2003
 SURVEY DATE: 8/2/2011
 SURVEY CREW: Eric Bailey and Sara DeRischebourg
 USGS MAPS: DODSON BUTTE
 ECOREGION: Inland Siskiyou
 REPORT PREPARED BY: Lora Tennant

REACH: 1 LOCATION: T28S-R04W-S35NW

SURVEY DESCRIPTION:

Channel morphology: Constrained alternately by high terraces and hillslopes

Dominant landuse(s): Second growth timber (15-30 cm dbh)

Dominant riparian vegetation: Mixed conifer/deciduous: size class 30-50cm dbh

Primary channel length (meters) and area (m²): 516 : 1,537

Secondary channel length (meters) and area (m²) 49 : 91

VWI average: 13.1 VWI Range: 9 - 20 Average Gradient: 1.3%

Pieces LWD per 100m: 19.0 Wood Volume (m³) per 100m: 8.3

Percent pools: 45% Complex pools (LWD pieces \geq 3): 9 Pools \geq 1m deep: 2

<u>Percent substrate (avg):</u>	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	4	50	44	1	0	2
Pool units	5	62	31	1	0	1
Fast water units	0	29	66	1	0	3

SURVEY COMMENTS:

This is a post-treatment (wood) restoration survey. The crew observed juvenile salmonids and beaver activity. Log habitat structures were also documented.

Survey Date: 8/2/2011

Report Date: 6/8/2012

T28S-R04W-S35NW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	13.1	VWI Range:	9 - 20

Channel Morphology (Percent Reach Length)

Constrained		Unconstrained	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

Type	Length (m)	Area (m ²)	Dry Units
Primary	516	1,537	0
Secondary	49	91	1

Channel Dimensions (m)

Wetted	Active	Floodprone <i>n</i> = 5	First Terrace <i>n</i> = 5
Width: 2.8	Width: 5.6	8.4 (6 - 10.3)	15.9 (8.6 - 30.2)
Depth: 0.32	Height: 0.5	1.0 (0.9 - 1.3)	1.9 (1.6 - 2.3)

W:D ratio: 11.1

Stream Flow Type: LF

Average Unit Gradient: 1.3%

Water temperature (°C): 14.5 - 14.5

Entrenchment (ACW:FPW ratio): 1.5

Habitat Units/100m (total channel length): 8.0

Habitat Units/100m (primary channel length): 8.7

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	ST	LT
Riparian Vegetation:	M30	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:	5%	Reach avg: 79%
Undercut Banks:	8%	Range: 50 - 97

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	98	19.0
Volume (m ³):	43	8.3
Key pieces (>=12m x 0.60m):	0	0.0

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REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
POOL-BACKWATER	2	10	1.0	0.20	11	0	7	81	12	0	0	0
POOL-ISOLATED	4	12	1.2	0.13	16	0	15	79	6	0	0	0
POOL-LATERAL SCOUR	16	231	3.3	0.60	725	0	5	62	31	1	0	1
PUDDLED UNIT	1	14	3.2	0.01	45	0	15	70	15	0	0	0
RAPID/BEDROCK	1	9	4.0	0.20	36	0	0	52	10	0	0	38
RIFFLE	12	207	2.3	0.15	517	0	0	24	74	1	0	1
RIFFLE W/ POCKETS	2	63	3.5	0.30	221	0	0	49	51	0	0	0
STEP/COBBLE	4	13	2.9	0.10	37	0	0	11	88	1	0	0
STEP/LOG	2	4	3.8	0.20	15	0	0	65	35	0	0	0
STEP/STRUCTURE	1	2	3.5	0.20	7	0	0	70	30	0	0	0
Total:	45	565	2.8	0.32	1,628	0	Avg: 4	50	44	1	0	2

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	6	23	1.2	0.15	27	1.67%	0	0.0
Scour Pools	16	231	3.3	0.60	725	44.50%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	14	270	2.5	0.18	737	45.28%	0	0.0
Rapids	1	9	4.0	0.20	36	2.21%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	7	19	3.2	0.14	58	3.59%	0	0.0
Dry	1	14	3.2	0.01	45	2.75%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

SLIDE CREEK
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REACH 1

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	22	39.0	42.6
Pools >=1m deep:	2	3.5	3.9
Complex pools (LWD pieces>=3):	9	15.9	17.4
Pool frequency (channel widths/pool):	4.6		
Residual pool depth (avg):	0.50		

Survey Date 8/2/2011

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Report Date: 6/8/2012

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

Total hardwoods/1000	772
Total conifers/1000 ft	447
Total conifers >20" dbh/1000 f	61
Total conifers >35" dbh/1000 f	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	0.7	0.0	0.0	0.3	1.3	1.0	2.0	1.3
15-30cm	0.0	5.7	0.7	2.3	1.3	0.7	2.0	8.7
30-50cm	0.0	1.0	0.3	0.7	2.0	0.7	2.3	2.3
50-90cm	0.0	0.0	0.3	0.0	0.7	0.3	1.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	6.7	1.3	3.3	5.3	2.7	2.4	4.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	65		76		75	
Shrub cover	79		53		45	
Grass/forb cover	21		48		52	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		33		0	
High terrace	100		67		100	
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 (%)			38			

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	772
Total conifers/1000 ft	447
Total conifers >20" dbh/1000 f	61
Total conifers >35" dbh/1000 f	0

Average number of trees in a 5-m wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u> <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.0	1.3
15-30cm	2.0	8.7
30-50cm	2.3	2.3
50-90cm	1.0	0.3
>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		
10	LF	1	HT		90	80	20	Conifer							TRANSITION, SLOPE 40
								Hardwood		5	2				
10	LF	2	HT		80	5	95	Conifer				1			
								Hardwood		2					
10	LF	3	HT		65	5	95	Conifer	2	2	2				
								Hardwood							
10	RT	1	HT		90	70	30	Conifer							TRANSITION, SLOPE 20
								Hardwood		2	1				
10	RT	2	HS	47	70	50	50	Conifer		1					
								Hardwood		2					
10	RT	3	HT		80	15	65	Conifer				1			TRANSITION, BARE GROUND
								Hardwood							TRANSITION, SLOPE 18
15	LF	1	HT		20	95	5	Conifer	2						
								Hardwood							
15	LF	2	HT		75	90	10	Conifer							
								Hardwood							
15	LF	3	HT		80	50	50	Conifer	2	1					BV DEN, PHOTO
								Hardwood	1			1			
15	RT	1	HT		70	80	20	Conifer							TRANSITION, SLOPE 39
								Hardwood		4					
15	RT	2	HT		70	20	80	Conifer			2	2			
								Hardwood			2	2			
15	RT	3	HT		60	80	20	Conifer							
								Hardwood			2	2			
29	LF	1	HT		60	90	10	Conifer							TRANSITION, SLOPE 45
								Hardwood			3				
29	LF	2	HT		70	90	10	Conifer							
								Hardwood	1	1					
29	LF	3	HT		85	80	20	Conifer				3			
								Hardwood	1						
29	RT	1	HT		60	60	40	Conifer							TRANSITION, SLOPE 68
								Hardwood		3					
29	RT	2	HS	29	90	60	40	Conifer		1		1			THREE BV DENS
								Hardwood							
29	RT	3	HT		80	40	60	Conifer			1	1	1		BV DENS
								Hardwood	1						

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 8/2/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 186 STREAM: SLIDE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	2	SL	00	10.9	DJ,PN,HS	HS-LOGS
1	3	RI	00	38.9	HS	
1	4	LP	00	60.3	DJ,HS	RED/ORANGE FLAG
1	5	RP	01	84.3		
1	7	LP	01	103.3	DJ	
1	8	LP	02	103.3	BV	LEFT BENCH #2
1	9	SC	00	106.8		ORANGE/BLACK FLAG, COHO REDD
1	10	RI	00	121.4		COHO REDD 11-25-09 FLAGGING
1	11	LP	00	132		COHO REDD 12-4-09-FLAGGING
1	12	SS	00	134	HS	HS-LOGS
1	15	LP	01	196.5	BV	FLAGGING; BENCH #3
1	16	IP	10	196.5		ACTIVE BV, DEN

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 186 STREAM: SLIDE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	17	RI	00	203.5		COHO REDD FLAGGING-11-5-09
1	18	LP	00	212.9	DJ,BV,HS	COHO REDD FLAGGING 11-15-09
1	19	SC	00	215.1	BV	
1	20	LP	00	219.7	BV	
1	21	RI	01	224.7	BV	
1	22	BW	10	224.7	BV	
1	23	LP	00	235	HS	
1	24	RI	01	253		
1	26	LP	00	264		
1	27	RI	01	284.4	BV	
1	28	BW	10	284.4	BV	
1	29	LP	00	299	BV	BV TRACKS, DEN

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 186 STREAM: SLIDE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	31	LP	00	320	HS	
1	32	RI	01	354.2	BV	BENCH #4
1	33	PD	02	354.2	DJ,BV	.6M POCKET; ACW=3.2M
1	34	LP	00	360.2	BV	
1	36	LP	00	375.6	HS,DJ,BV	
1	37	RI	00	409.6		COHO REDD FLAGGING 12-4-09
1	38	LP	00	436.6	BV	
1	40	IP	10	447.6		
1	41	LP	00	454.1		
1	42	SL	00	456.1	BV,DJ	STEP OVER LOG, /DJ
1	43	RI	00	471.7	BV	BENCH #5
1	44	LP	00	505.2	WL	SNAKE

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 186 STREAM: SLIDE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	45	RI	00	516.2	EOS	