

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

STREAM: Hall Creek (MS-359)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: July 9, 2007
SURVEY CREW: Drew Harper, Scott Kuhn, Pat Burns
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 23.9 km²
USGS MAPS: Myrtle Point
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Hall Creek habitat survey extended 1,071 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 20.0. Land use for the reach was light grazing and second growth (15-30 cm dbh) trees. The average unit gradient was 0.9 percent. Scour pools (43%), riffles (29%) and glides (27%) comprised stream habitat. Silt (84%) and sand (15%) made up stream substrate. Wood volume was very low at 2.3 m³/100m.

COMMENTS:

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

REACH 1

T29S-R13W-S11NE

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	20.0	VWI Range:	20 - 20

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	1,071	2,770	0
Secondary Channel	0	0	0
Off-Channel Units	26	38	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 2.7	Width: 4.6	6.3 (3.3 - 8.1)	8.5 (7 - 10.6)
Depth: 0.62	Height: 0.6	1.1 (1 - 1.3)	1.9 (1.4 - 2.3)

W:D ratio: 8.1
 Stream Flow Type: LF
 Average Unit Gradient: 0.9%
 Water temperature (°C): 17.0 - 17.0

Entrenchment (ACW:FPW ratio): 1.4
 Habitat Units/100m (total channel length): 3.5
 Habitat Units/100m (primary channel length): 3.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	C3

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	8%	Reach avg: 42%
Undercut Banks:	4%	Range: 11 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	47	4.4
Volume (m ³):	25	2.3
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPT OF FISH AND WILDLIFE

HALL CREEK PRE-TX (3-MS, 359)

HABITAT INVENTORY

Report Date: 11/14/2007

Survey Date:

7/9/2007

REACH 1		T29S-R13W-S11NE					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
GLIDE	13	385	2.0	0.45	767	0	88	12	0	0	0	0
POOL-BACKWATER	1	11	2.0	0.40	21	0	90	10	0	0	0	0
POOL-LATERAL SCOUR	10	287	3.9	1.20	1,089	0	92	8	1	0	0	0
POOL-STRAIGHT SCOUR	2	20	5.6	0.95	109	0	98	3	0	0	0	0
RIFFLE	3	85	1.5	0.13	152	0	72	28	0	0	0	0
RIFFLE W/ POCKETS	9	309	2.2	0.33	672	0	73	26	2	0	0	0
Total:	38	1,097	2.7	0.62	2,809	0	Avg: 84	15	1	0	0	0

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	1	11	2.0	0.40	21	0.75%	0	0.0	
Scour Pools	12	307	4.2	1.16	1,198	42.64%	0	0.0	
Glides	13	385	2.0	0.45	767	27.29%	0	0.0	
Riffles	12	395	2.0	0.28	824	29.32%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	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	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	13	11.9	12.1
Pools >=1m deep:	9	8.2	8.4
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	18.3		
Residual pool depth (avg):	0.87		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

HALL CREEK PRE-TX
GCG: 3-MS SITE ID: 359

Survey Date 7/9/2007
Report Date: 11/7/2007

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	589
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
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	0.0	0.3	0.0	4.7	0.0	4.7	0.0	9.7
15-30cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	0.3	0.0	4.7	0.0	4.7	0.0	3.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	6		10		11	
Shrub cover	33		3		13	
Grass/forb cover	63		95		88	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		17		17	
High terrace	100		83		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 (%)	2		4		3	

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	589
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
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	0.0	9.7
15-30cm	0.0	0.0
30-50cm	0.0	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

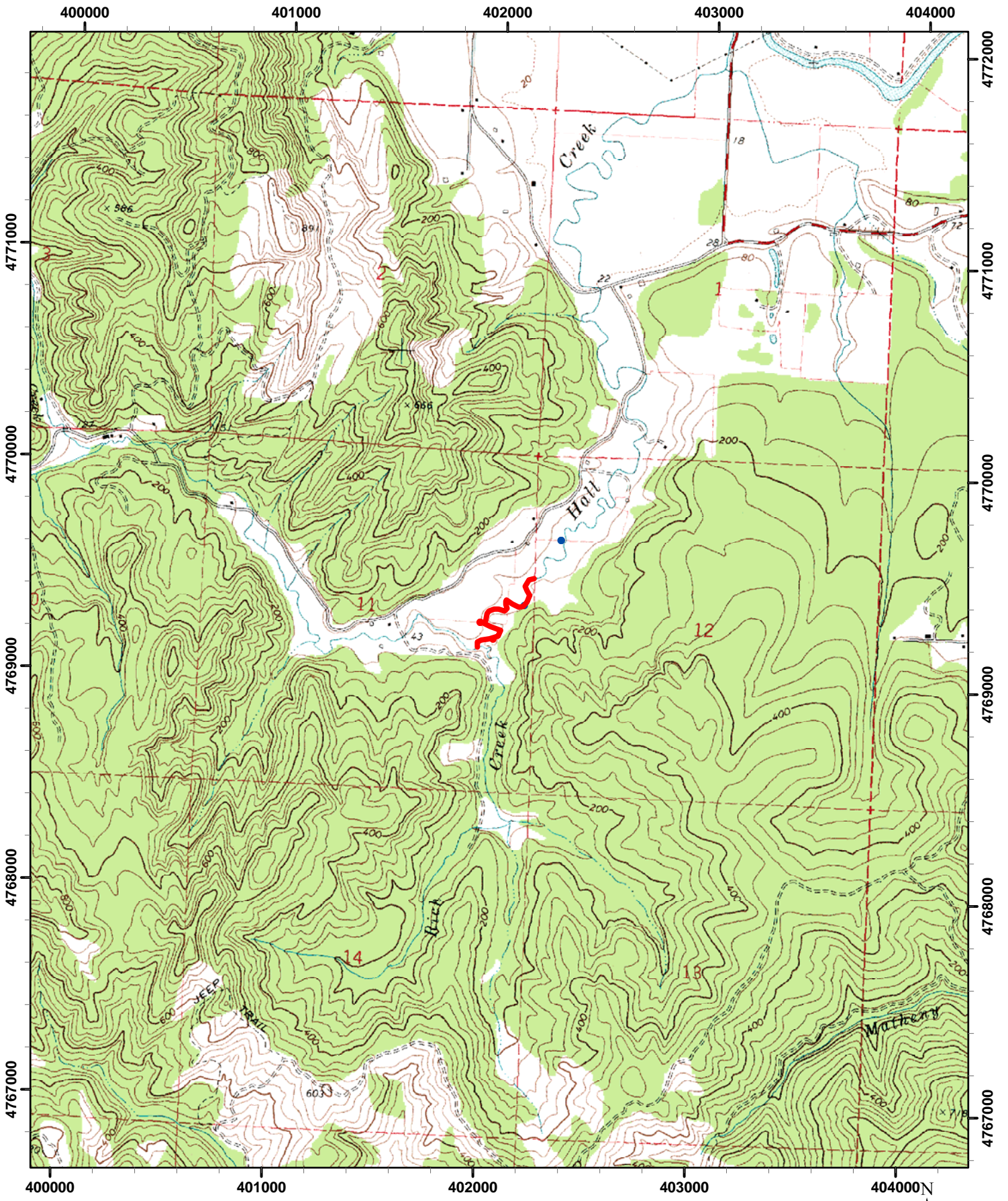
Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)			Diameter class (cm)					Notes					
					Canopy	Shrub	Grass	3-15	15-30	30-50	50-90	>90						
13	LT	1	HT	0	0	0	100											
																		Conifer Hardwood
13	LT	2	HT	0	0	0	100											Conifer Hardwood
13	LT	3	HT	0	0	5	95											Conifer Hardwood
13	RT	1	HT	0	0	5	95											Conifer Hardwood
13	RT	2	HT	0	0	0	100											Conifer Hardwood
13	RT	3	HT	0	0	0	100											Conifer Hardwood
22	LT	1	HT	5	0	10	70											Conifer Hardwood
22	LT	2	HS	25	60	20	70											Conifer Hardwood
22	LT	3	HS	20	65	70	30											Conifer Hardwood
22	RT	1	HT	0	0	100	0											Conifer Hardwood
22	RT	2	HT	0	0	0	100											Conifer Hardwood
22	RT	3	HT	0	0	0	100											Conifer Hardwood
29	LT	1	HT	0	35	80	20											Conifer Hardwood
29	LT	2	HT	0	0	0	100											Conifer Hardwood
29	LT	3	HT	0	0	0	100											Conifer Hardwood
29	RT	1	HT	5	0	5	95											Conifer Hardwood
29	RT	2	HT	0	0	0	100											Conifer Hardwood
29	RT	3	HT	0	0	0	100											Conifer Hardwood

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 359 STREAM: HALL CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
9	RP	00	175.7		COHO FRY PRESENT
10	LP	00	184.7		IRRIGATION PUMP IN POOL, COHO PRESENT
11	GL	00	213.3		TROUT FRY
13	SP	00	265.3	BC	PRIVATE WOODEN BRIDGE
16	LP	00	382.5		SHADED POOL
17	GL	00	396.5	AM	RSN
18	LP	00	427.6	AM	FRG
22	LP	00	557.2		TROUT FRY
24	LP	00	595.9	AM	RSN
27	LP	00	709.7	AM	RSN
29	GL	00	790	BC	OLD FOOTBRIDGE
38	RI	11	1070.6	TJ/	RICHY CREEK



Mid-South Coast
Site Number: 359
Hall Creek
T29S R13W S11NE



 **Approximate location of survey reach**

