

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

STREAM: HALL CREEK
 GCG: 3-MS
 SITE ID: 359
 BASIN: COQUILLE
 TREATMENT DATE: 2007
 SURVEY DATE: 6/3/2008
 SURVEY CREW: Peter Cole / Lisa Biggs
 USGS MAPS: MYRTLE POINT
 ECOREGION: Coastal Uplands
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

SURVEY DESCRIPTION:

Channel morphology: Constrained by high terraces

Dominant landuse(s): Light grazing pressure

Dominant riparian vegetation: Annual grasses, herbs, and forbs.

Primary channel length (meters) and area (m²): 1,074 : 3,807

Secondary channel length (meters) and area (m²) 42 : 34

VWI average: 20.0 VWI Range: 20 - 20 Average Gradient: 0.6%

Pieces LWD per 100m: 10.1 Wood Volume (m³) per 100m: 11.7

Percent pools: 61% Complex pools (LWD pieces>=3): 10 Pools >=1m deep: 12

Percent substrate (avg):	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	35	61	2	0	2	0
Pool units	40	57	1	0	2	0
Fast water units	27	68	2	0	3	0

COMMENTS:

This is a post-treatment, restoration survey. The crew noted habitat structures throughout the survey. Beaver activity was noted near the end of the survey. Evidence of wildlife included various animal tracks, rough-skinned newts, yellow-legged frogs, and a brook lamprey.

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**HALL CREEK
GCG: 3-MS SITE ID: 359**

Survey Date: 6/3/2008

Report Date: 12/29/2008

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	1,074	3,807	0
Secondary	42	34	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 3.4	Width: 6.1	8.6 (6.7 - 9.8)	9.6 (8.4 - 10.6)
Depth: 0.78	Height: 1.3	2.6 (2.4 - 2.9)	2.9 (2.6 - 3.1)

W:D ratio: 4.7 Entrenchment (ACW:FPW ratio): 1.5
 Stream Flow Type: MF Habitat Units/100m (total channel length): 3.3
 Average Unit Gradient: 0.6% Habitat Units/100m (primary channel length): 3.4
 Water temperature (°C): 11.0 - 11.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	LT
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: 59%
Undercut Banks:	5%	Range: 33 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	108	10.1
Volume (m ³):	126	11.7
Key pieces (>=12m x 0.60m):	4	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

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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	1	38	4.5	0.30	171	0	15	85	0	0	0	0
POOL-BACKWATER	1	10	2.5	0.50	25	0	90	10	0	0	0	0
POOL-BEAVER DAM	1	22	5.8	1.70	128	0	80	20	0	0	0	0
POOL-LATERAL SCOUR	15	475	4.6	1.19	2,197	11	37	59	1	0	2	0
PUDDLED UNIT	1	16	0.5	0.10	8	0	10	90	0	0	0	0
RIFFLE	7	196	1.9	0.45	401	5	31	66	0	0	3	0
RIFFLE W/ POCKETS	10	357	2.5	0.51	905	12	23	70	4	0	3	0
STEP/BEAVER DAM	1	1	4.8	0.20	7	0	80	20	0	0	0	0
Total:	37	1,116	3.4	0.78	3,841	28	Avg: 35	61	2	0	2	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	2	32	4.2	1.10	152	3.96%	0	0.0
Scour Pools	15	475	4.6	1.19	2,197	57.20%	11	0.5
Glides	1	38	4.5	0.30	171	4.45%	0	0.0
Riffles	17	553	2.3	0.48	1,306	34.01%	17	1.3
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	1	1	4.8	0.20	7	0.17%	0	0.0
Dry	1	16	0.5	0.10	8	0.21%	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:	17	15.2	15.8
Pools >=1m deep:	12	10.8	11.2
Complex pools (LWD pieces>=3):	10	9.0	9.3
Pool frequency (channel widths/pool):	10.7		
Residual pool depth (avg):	0.78		

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RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	102
Total conifers/1000 ft	142
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	1.3	0.7	0.0	0.3	1.0	0.3	2.3	1.3
15-30cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
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	1.3	0.7	0.0	0.7	1.0	0.3	0.8	0.6

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	2	7	8
Shrub cover	5	6	7
Grass/forb cover	95	93	90

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 (%)	0	6	6

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	102
Total conifers/1000 ft	142
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	2.3	1.3
15-30cm	0.0	0.3
30-50cm	0.0	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

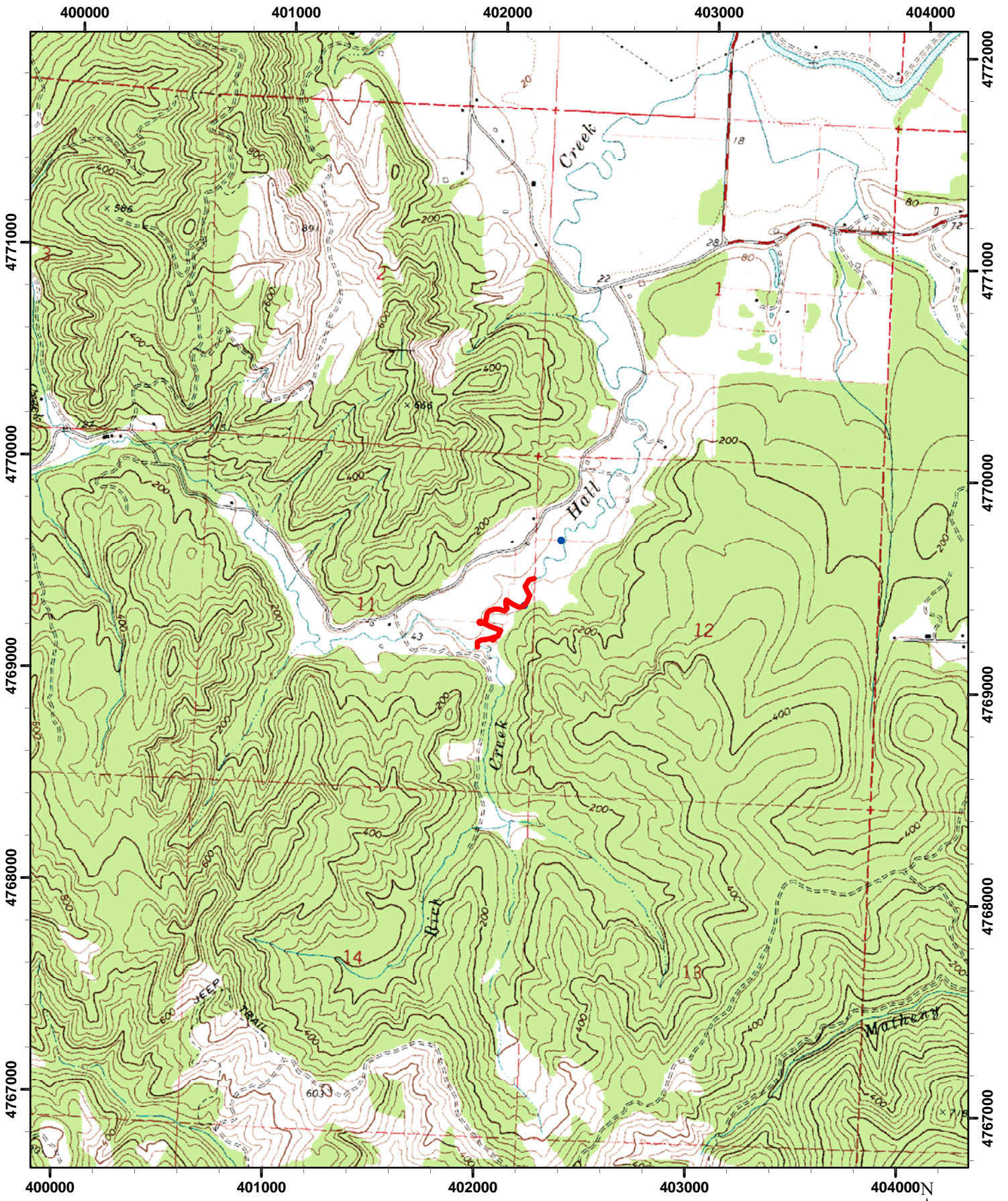
Reach 1 Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
10	LF	1	HT	0	5	10	90	Conifer							PASTURE W/NEW CRP
								Hardwood							RIP
10	LF	2	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
10	LF	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
10	RT	1	HT	0	0	5	95	Conifer							PASTURE W/NEW CRP
								Hardwood							RIP
10	RT	2	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
10	RT	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
16	LF	1	HT	0	5	5	95	Conifer							PACIFIC TREEFROG
								Hardwood							
16	LF	2	HS	35	40	35	55	Conifer							
								Hardwood	1	1					
16	LF	3	HS	35	45	40	40	Conifer	3						
								Hardwood	1						
16	RT	1	HT	0	0	5	95	Conifer	4						PASTURE W/CRP RIP
								Hardwood							
16	RT	2	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
16	RT	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
21	LF	1	HT	0	0	5	95	Conifer							PASTURE
								Hardwood							
21	LF	2	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
21	LF	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
21	RT	1	HT	0	0	0	100	Conifer							PASTURE, WILLOW
								Hardwood	2						
21	RT	2	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							
21	RT	3	HT	0	0	0	100	Conifer							PASTURE
								Hardwood							

COMMENT SUMMARY

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	58.8	BC	T=11C/0940
3	LP	00	93.2	HS	
5	LP	00	160.7	HS, WL	RIVER OTTER TRACKS
8	RP	00	243.6	RF, SS/	
9	LP	00	274.8	BC	
10	RP	00	324.8		RIP-1; T=11C/1030
11	RP	00	344.5	WL	DEER TRACKS
12	LP	00	379.5	HS, WL	RACCOON TRACKS
13	GL	00	417.5	WL	DEER TRACKS
14	LP	00	455.7	HS	
15	RP	00	489.2	BV	
16	LP	00	571.7	HS, AM	RIP-2, T=11C/1145, PACIFIC TREEFROG IN RIPARIAN
17	RI	00	583.1	AM	2 ROUGH-SKINNED NEWTS; YELLOW-LEGGED FROG
20	LP	00	703.5	HS, BC	
21	RP	00	753.3	HS	RIP-3, T=11.5C/1240
22	RI	02	753.3	WL	DEER TRACKS
23	RP	00	791.6		BROOK LAMPREY
24	LP	00	801.9	HS	
29	LP	01	899.4	BV	
32	RP	00	928.8	WL	DEER TRACKS
36	SD	00	1051.8	BD	H=0.70M
37	BP	00	1073.8	BV	



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



 **Approximate location of survey reach**

