

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

STREAM: Hudson Creek Segment B (MS-387)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: March 13, 2008
SURVEY CREW: Kyle Brachter, Bobby Gomez
REPORT PREPARED BY: Sharon Tippery
BASIN AREA: 5.9 km²
USGS MAPS: Coos Mountain
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Hudson Creek Segment B habitat survey extended 1,664 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.5 (range: 1-6). Land use for the reach was second growth timber (15-30cm dbh) and large growth timber (30-50cm dbh). The average unit gradient was 2.8 percent. Scour pools (39%) and rapids (37%) dominated stream habitat. Bedrock (28%), gravel (26%) and sand (25%) dominated stream substrate. Wood volume was 19.9m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.
The crew noted several debris jams and two active landslides during the survey.
Beaver activity and several steelhead redds were observed during the survey.

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

**HUDSON CREEK SEGMENT B
GCG: 3-MS SITE ID: 387**

Survey Date: 3/13/2008

Report Date: 5/8/2008

T27S-R11W-S35SW

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.5	VWI Range:	1 - 6

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	1,664	9,062	0
Secondary	49	144	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 3
Width: 5.0	Width: 6.4	7.8 (5.5 - 11.5)	11.8 (8.1 - 18.3)
Depth: 0.37	Height: 0.4	0.9 (0.7 - 1)	2.0 (1.4 - 2.5)

W:D ratio: 15.5

Stream Flow Type: MF

Average Unit Gradient: 2.8%

Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 6.8

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

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	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):	320	19.2
Volume (m ³):	331	19.9
Key pieces (>=12m x 0.60m):	5	0.3

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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
CASCADE/BOULDERS	4	43	3.9	0.15	231	0	0	24	25	11	40	0
POOL-LATERAL SCOUR	56	684	5.1	0.58	3,592	0	0	35	22	5	5	32
POOL-PLUNGE	1	8	4.0	0.90	32	0	0	10	0	30	60	0
RAPID/BEDROCK	12	446	5.9	0.15	2,676	0	0	2	1	2	2	92
RAPID/BOULDERS	9	141	4.8	0.18	812	0	0	7	28	22	39	4
RIFFLE	19	339	5.0	0.18	1,627	0	0	31	43	19	5	1
STEP/BEDROCK	3	10	3.1	0.07	30	0	0	0	0	0	0	100
STEP/BOULDERS	3	13	5.0	0.20	68	0	0	0	7	37	56	0
STEP/COBBLE	6	20	4.7	0.11	96	0	0	5	73	22	1	0
STEP/LOG	4	10	4.3	0.12	42	0	0	28	28	14	31	0
Total:	117	1,714	5.0	0.37	9,205	0	Avg: 0	25	26	11	11	28

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	0	0			0	0.00%	0	0.0
Scour Pools	57	692	5.1	0.59	3,624	39.37%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	19	339	5.0	0.18	1,627	17.68%	0	0.0
Rapids	21	588	5.4	0.16	3,487	37.88%	0	0.0
Cascades	4	43	3.9	0.15	231	2.50%	0	0.0
Step/Falls	16	53	4.4	0.12	236	2.56%	0	0.0
Dry	0	0			0	0.00%	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:	57	33.3	34.2
Pools >=1m deep:	3	1.8	1.8
Complex pools (LWD pieces>=3):	24	14.0	14.4
Pool frequency (channel widths/pool):	4.7		
Residual pool depth (avg):	0.39		

COMMENT SUMMARY

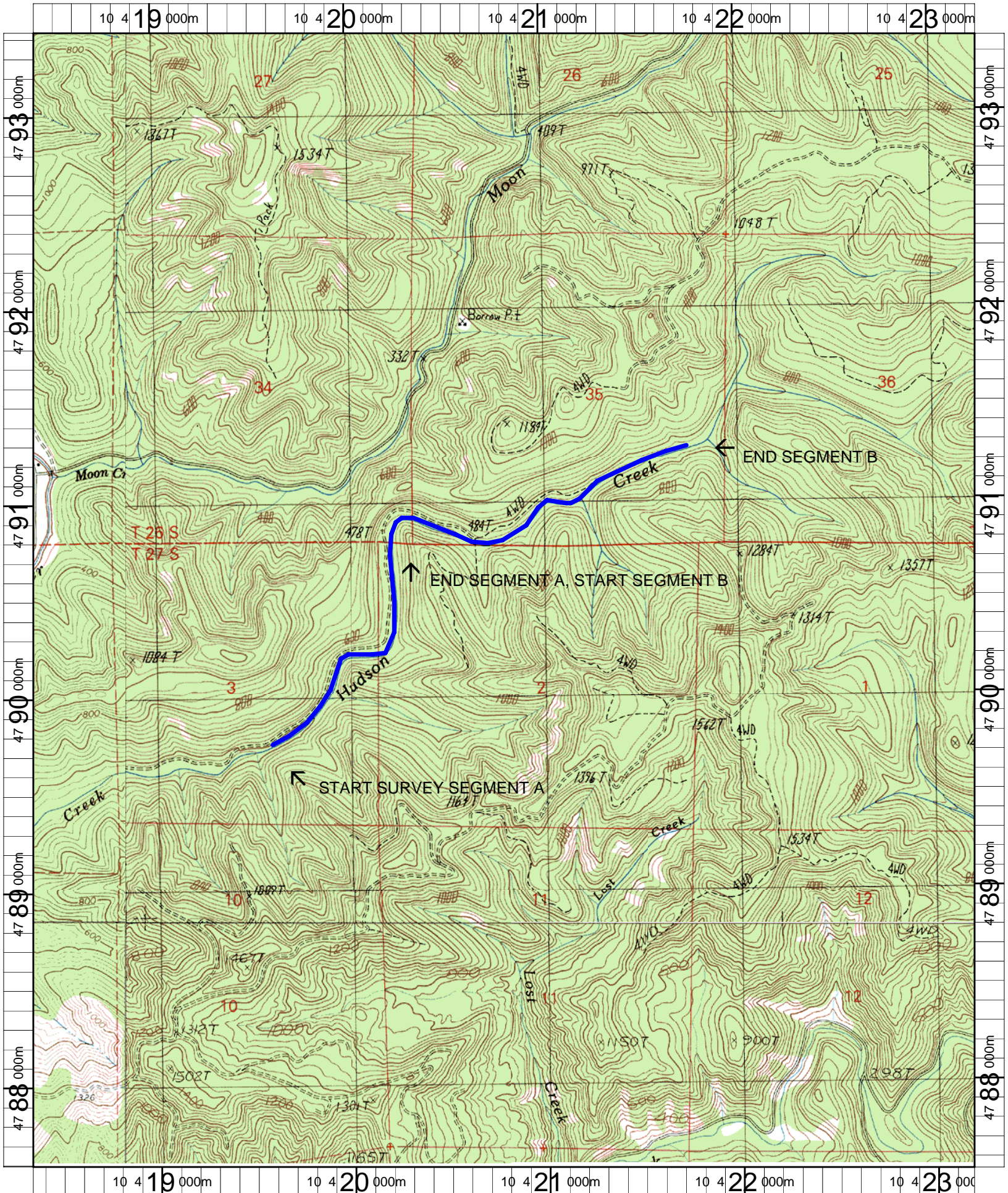
MONITORING AREA: 3-MS SITE ID: 387 STREAM: HUDSON CREEK SEGMENT B

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RR	00	42		CHMV D15S ST
2	LP	00	57.5		STEELHEAD REDD
7	LP	00	242.6		STEELHEAD REDD FLAGGED
18	RI	00	328.3		CHMV D15G ST
19	LP	00	352	/SS	REDD
29	RR	00	592.2	BC CS/CS	BOULDERS
31	LP	00	605.9		SPAWNING SURVEY END, HABITAT SURVEY END 519
35	LP	01	643.5	DJ	
36	SR	01	647.5		ESTIMATED UNIT (UNDER DJ)
37	RB	02	647.5	/TJ	
38	RB	11	647.5		T=9C ACW=1.8M
42	RI	00	677.9		CACT D15G ST
53	LP	00	849.5		2 REDDS
54	RI	00	868.5	DJ	
56	LP	01	885.5	/TJ	
57	CB	11	885.5		T=8C ACW=0.8M
60	RR	00	1005.5	DJ	CACT D30G STLT
74	RI	00	1207.1	LA/	
79	LP	00	1247.5	LA/	
83	LP	01	1275	/TJ	
84	CB	11	1275		ACW=2.4M T=8C
86	CB	00	1348	DJ	

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 387 STREAM: HUDSON CREEK SEGMENT B

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
91	LP	00	1382.9	DJ	
96	SL	00	1407.4	DJ	
99	RI	00	1427.7		CHMV D30G STLT
102	RI	00	1491.7	SS/	
106	SC	00	1533.6	BV	STICKS CHEWED
116	RI	01	1664.4	/TJ	CACT D15S STLT
117	SR	11	1664.4		HARDPAN ACW=1.3M T=8C



Name: COOS MT
 Date: 12/13/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0420789 E 4790488 N NAD 27
 Caption: HUDSON CREEK SEGMENTS A_B RESTORATION SITES -
 COQUILLE BASIN