ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	King Creek Upper (MS-167)
BASIN:	Coquille River
SURVEY TYPE:	Post-Tx
DATE:	February 2, 2004
SURVEY CREW:	Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	9.0 km^2
USGS MAPS:	Bridge
ECOREGION:	Coast Range Sedimentary

GENERAL DESCRIPTION:

The King Creek habitat survey extended 546 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 9.6 (range: 2.5-20.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 2.2 percent. Riffles (58%) and scour pools (33%) dominated stream habitat. Gravel (69%) dominated stream substrate. Wood volume was low at 16.5 m^3/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

OREGON DEPARTMENT OF FISH AND WILDLIFE **KING CREEK UPPER POST-TX (MS-167)**

HABITAT INVENTORY Report Date: 6/16/2004 Survey Date: 2/2/2004

REACH 1 **T29S-R11W-S21NW** **REACH 1**

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 9.6 VWI Range: 2.5 - 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 (m2)	Dry Units
Primary	546	1,666	0
Secondary	14	22	0

Channel Dimensions (m)

Wetted		Active		Floodprone *n* = 5		First Terrace *n* = 4	
Width:	3.1	Width:	5.2	9.7	(5.3 - 15)	14.3	(6.3 - 23)
Depth:	0.36	Height:	0.5	1.0	(1 - 1.2)	1.6	(1.3 - 2.2)

W:D ratio: 10.2
Stream Flow Type: MF
Average Unit Gradient: 2.2%
Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.8
Habitat Units/100m (total channel length): 6.8
Habitat Units/100m (primary channel length): 7.0

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	YT	ST
Riparian Vegetation:	D15	G

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	131	24.0
Volume (m^3):	90	16.5
Key pieces (>=12m x 0.60m):	0	0.0

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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	1	4	0.5	0.05	2	0		10	10	15	60	5	0
POOL-LATERAL SCOUR	16	176	3.2	0.60	554	0		5	17	66	11	0	1
RAPID/BOULDERS	2	30	2.7	0.20	75	0		0	10	59	31	0	0
RIFFLE	15	332	2.9	0.20	978	0		0	7	77	15	0	0
STEP/COBBLE	4	18	4.3	0.16	80	0		0	5	66	29	0	0
Total:	38	560	3.1	0.36	1,688	0	**Avg:**	2	11	69	17	0	1

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders (# / $100m^2$)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	16	176	3.2	0.60	554	32.82%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	15	332	2.9	0.20	978	57.93%	0	0.0
Rapids	2	30	2.7	0.20	75	4.42%	0	0.0
Cascades	1	4	0.5	0.05	2	0.12%	0	0.0
Step/Falls	4	18	4.3	0.16	80	4.71%	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 Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	16	28.6	29.3
Pools >=1m deep:	1	1.8	1.8
Complex pools (LWD pieces>=3):	13	23.2	23.8
Pool frequency (channel widths/pool):	6.7		
Residual pool depth (avg):	0.40		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** **SITE ID:** **167** **KING CREEK UPPER POST-TX (MS-1**

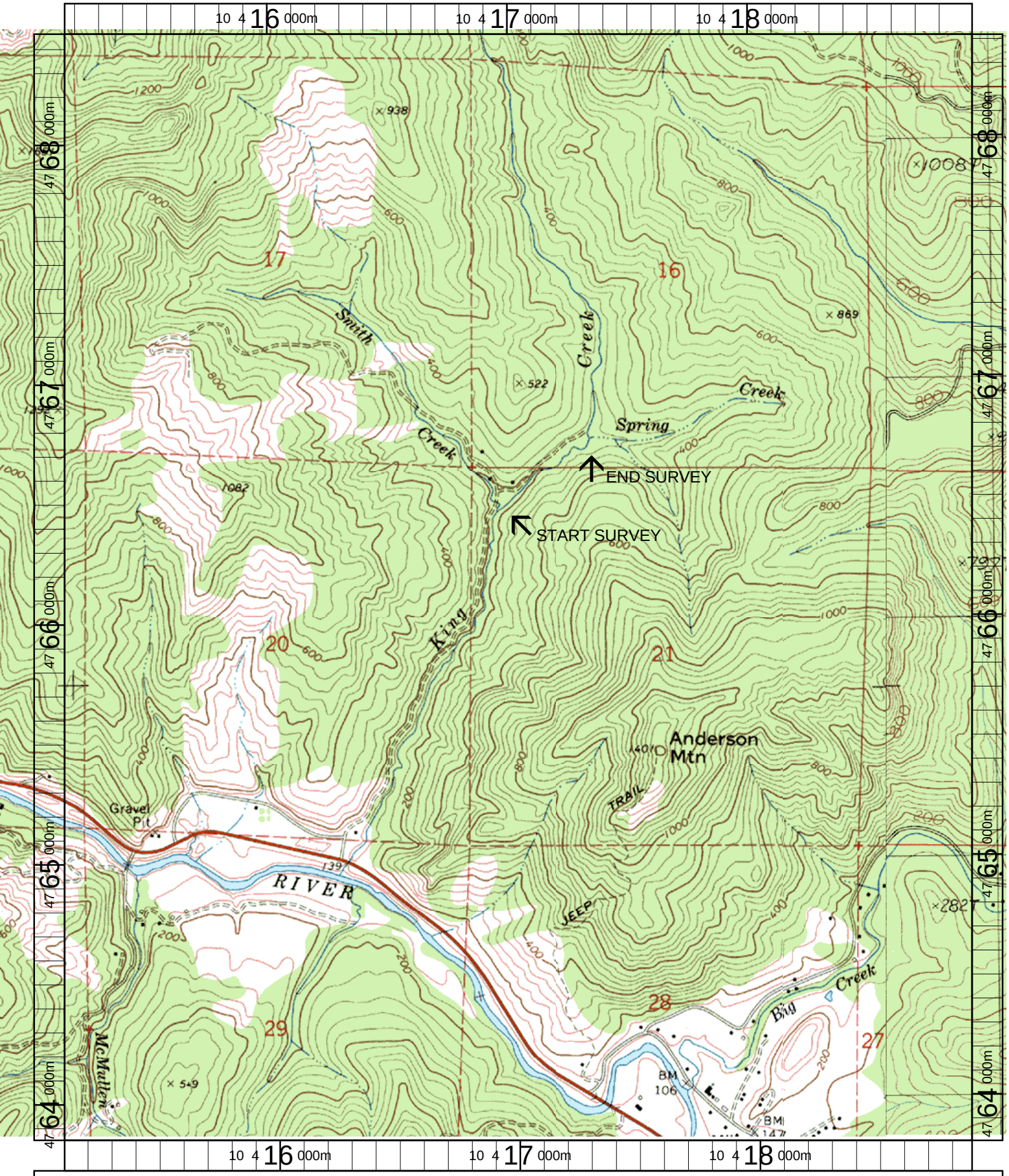
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RB	01	19.5	TJ/	SMITH CREEK	
2	RI	11	19.5		T=8.5C	
3	LP	00	31.8	HS	WIDE FLOOD PLAIN @ T	
5	LP	00	69.1	HS	LOGS	
7	LP	00	99.3	HSX2	LOGS; STEEL BARREL IN	
9	RI	00	129.3	HS	LOGS	
11	LP	00	153.4	HS	FLAG KC-10	
12	RI	00	182	HS	4 LOGS	
13	LP	00	196.8	SS/	CREEK EATING ROAD	
15	LP	00	209.6	HS	3 LOGS; KC-12	
17	LP	00	235	HS	KC-13	
18	SC	00	242.3	WL	RSN	
19	LP	00	249.1	HS	KC-14	
21	LP	00	284.6	HS	KC-15	
22	RI	00	309.6	HS	KC-16	
23	RI	01	348.6	HS, /TJ		
24	CB	11	348.6		T=9.5; ACW=1	
25	LP	00	358.8	HS		
26	RI	00	383.8		BL. FLAG ODFW AQINV R	
27	LP	00	392.5	HS	KC-19	
28	RI	00	420.7		KC-20	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** **SITE ID:** **167** **KING CREEK UPPER POST-TX (MS-1**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
29	LP	00	435.7	HS		
30	RI	00	454.7	-/LS		
32	RI	00	485.4	HS	KC-21	
35	LP	00	514.9	HS /LA /SS	SALMON BONES	
36	RB	00	525.4	-/LA		
37	LP	00	533.9	HS	4 LOGS	
38	RI	00	546.2	HS	4 LOGS	



Name: BRIDGE
Date: 6/11/2003
Scale: 1 inch equals 1666 feet

Location: 10 417015 E 4766139 N
Caption: KING CREEK UPPER RESTORATION SITE - MF COQUILLE BASIN