ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	King Creek Lower (MS-166)
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 336 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 4.5 (range: 2.0-7.0). Land use for the reach was timber harvest. The average unit gradient was 0.9 percent. Scour pools (47%) and riffles (40%) dominated stream habitat. Gravel (70%) dominated stream substrate. Wood volume was low at 18.7 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 LOWER POST-TX (MS-166)**

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

REACH 1 **T29S-R11W-S20SE** **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 4.5 VWI Range: 2 - 7

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	336	1,406	0
Secondary	5	14	0

Channel Dimensions (m)

Wetted		Active		Floodprone *n* = 5		First Terrace *n* = 5	
Width:	4.4	Width:	5.8	7.9	(5.7 - 10.4)	10.0	(8.2 - 12)
Depth:	0.43	Height:	0.6	1.2	(1.2 - 1.4)	1.6	(1.3 - 1.9)

W:D ratio: 9.4
Entrenchment (ACW:FPW ratio): 1.4
Stream Flow Type: MF
Habitat Units/100m (total channel length): 9.7
Average Unit Gradient: 0.9%
Habitat Units/100m (primary channel length): 9.8
Water temperature (°C): 8.5 - 8.5

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	TH	
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):	77	22.9
Volume (m^3):	63	18.7
Key pieces (>=12m x 0.60m):	3	0.9

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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
POOL-BACKWATER	1	5	3.2	0.70	14	0		20	70	10	0	0	0
POOL-LATERAL SCOUR	14	144	4.4	0.66	638	0		6	15	65	8	3	2
POOL-PLUNGE	1	7	4.5	0.60	29	0		0	10	65	25	0	0
RAPID/BOULDERS	2	23	4.1	0.40	92	0		3	10	76	7	5	0
RIFFLE	8	119	4.0	0.21	453	0		0	6	85	9	0	0
RIFFLE W/ POCKETS	1	24	4.5	0.30	110	0		0	10	70	10	10	0
STEP/COBBLE	5	19	5.0	0.18	81	0		0	6	73	21	0	0
STEP/LOG	1	0	5.5	0.10	2	0		0	5	65	30	0	0
Total:	33	340	4.4	0.43	1,420	0	**Avg:**	3	12	70	11	2	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	1	5	3.2	0.70	14	1.01%	0	0.0
Scour Pools	15	151	4.4	0.65	667	46.99%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	9	143	4.1	0.22	563	39.64%	0	0.0
Rapids	2	23	4.1	0.40	92	6.50%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	6	19	5.1	0.17	83	5.86%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	16	47.0	47.7
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	17.6	17.9
Pool frequency (channel widths/pool):	3.7		
Residual pool depth (avg):	0.41		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 166 KING CREEK LOWER POST-TX (MS-

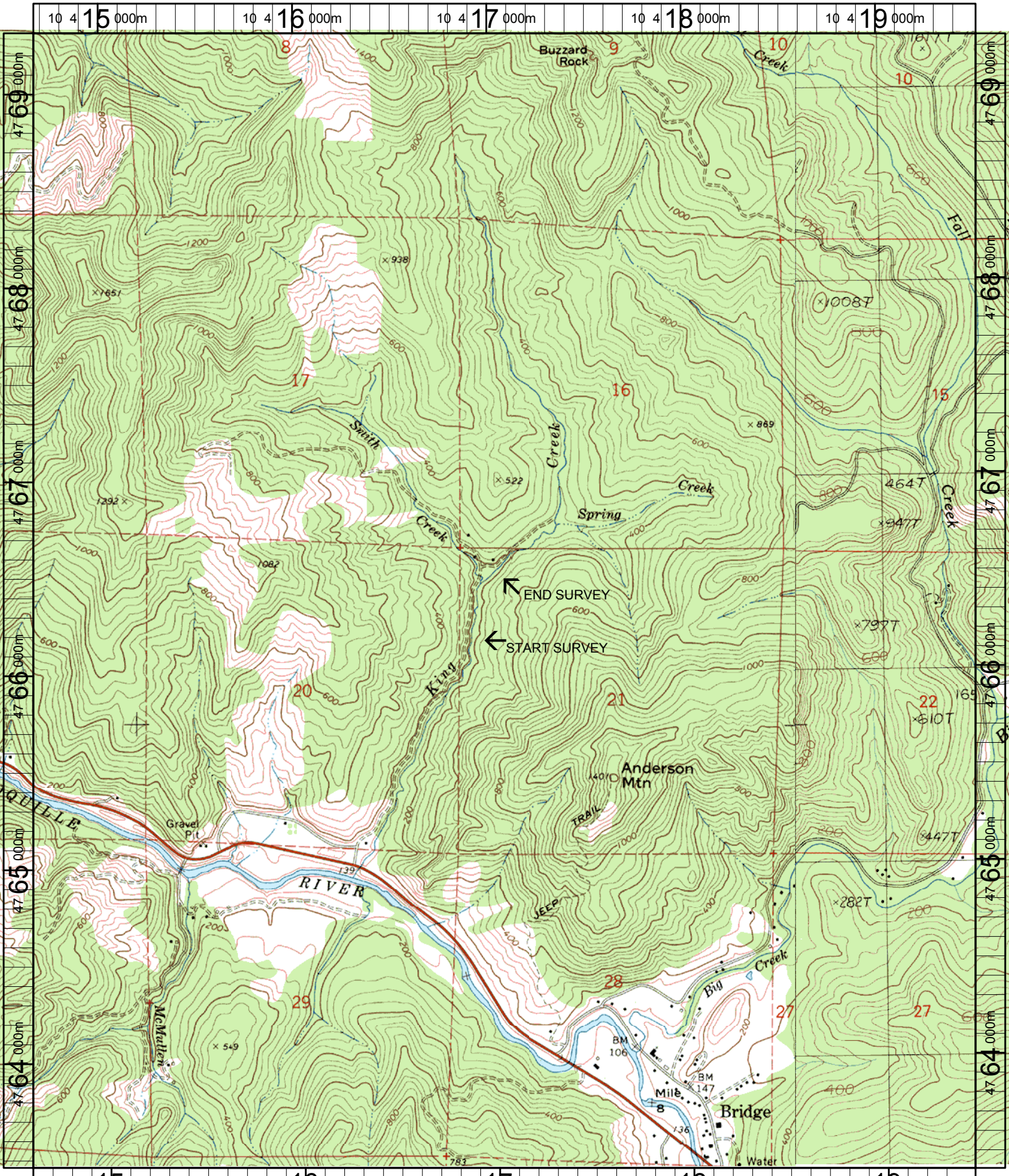
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	PP	00	6.5		T=8.5C	
2	SL	00	6.9		H=0.15M	
3	LP	00	18.4	LA/-		
5	LP	00	37.5	SS/-; HS	HS-2 LOGS	
6	RI	00	53.1	SS/-	ORANGE FLAG KC-2	
7	LP	00	60.3	HS	3 LOGS	
8	RB	00	71.1	SS/-		
9	LP	00	86.1	HS; /SS	8 LOGS	
10	LP	00	97.6	HS; -/SS		
11	SC	00	99.4		ODFW-AQINV BLUE FLAG	
12	LP	00	110.5	SS/-	YELLOW FLAG; SITE 6; P	
14	LP	00	124.2	HS	5 LOGS	
15	SC	00	127.2	-/LS		
16	LP	00	135.2	HS	6 LOGS	
18	RI	00	158	2XHS	HOLES AROUND HS	
19	RI	00	178.3	HS	SMALL HOLE @ HS; YEL.	
20	RI	00	187.2	HS		
21	LP	00	196.2	HS	YELLOW FLAG SITE 2	
22	LP	00	205.2	HS	DEER FOOT IN CREEK	
23	RI	01	228		PHOTO SITE 1 & R P2	
25	RP	00	252.4	HS; LI/	RC MIDSTREAM	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS** **SITE ID:** **166** **KING CREEK LOWER POST-TX (MS-**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
27	LP	00	272.4	CS/-		
32	RB	00	320.6	CS/-	CAR BODY IN CREEK	
33	RI	00	335.6		DEER BONE	



Name: BRIDGE
Date: 7/22/2004
Scale: 1 inch equals 2000 feet

Location: 10 417053 E 4766365 N
Caption: KING CREEK LOWER RESTORATION SITE - MF COQUILLE BASIN