

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: July 29, 2003
SURVEY CREW: Pat Burns, Brock Jonasson
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 9.0 km²
USGS MAPS: Bridge
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The King Creek habitat survey extended 370 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.1 (range: 2.4-4.0). Land use for the reach was timber harvest. The average unit gradient was 1.5 percent. Scour pools (48%) and dry channel units (39%) dominated stream habitat. Gravel (39%) and cobble (34%) dominated stream substrate. Wood volume was high at 30.6 m³/100m.

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: 12/17/03

Survey Date:

7/29/03

REACH 1		T29S-R11W-S21NW					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
DRY UNIT	4	50	5.4	0.00	225	1	1	8	41	48	3	0
POOL-LATERAL SCOUR	14	154	2.4	0.47	361	13	11	20	35	27	7	0
PUDDLED UNIT	4	64	1.0	0.14	71	0	5	8	51	36	0	0
RIFFLE	7	121	0.7	0.06	93	7	1	9	36	41	13	0
STEP/COBBLE	3	6	0.3	0.20	2	1	0	8	45	33	13	0
Total:	32	395	2.0	0.25	752	22	Avg 6	13	39	34	7	0

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		25
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	14	154	2.4	0.47	361	48.08%	13	3.6	
Glides	0	0			0	0.00%	0	0.0	
Riffles	7	121	0.7	0.06	93	12.40%	7	7.5	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	3	6	0.3	0.20	2	0.25%	1	53.8	
Dry	8	115	3.2	0.07	295	39.27%	1	0.3	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	14	35.4
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	7	17.7
Pool frequency (channel widths/pool):	4.4	
Residual pool depth (avg):	0.42	

STREAM SUMMARY

KING CREEK LOWER POST-TX (MS-166)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
32	395	2.0	0.25	752	6	13	39	34	7	0	22

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	0	0.00%
Scour Pools	361	48.08%
Glides	0	0.00%
Riffles	93	12.40%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	2	0.25%
Dry	295	39.27%
Culverts	0	0.00%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

Summary of Riparian Zone (0-30m) 2 transects

Total hardwoods/1000	518
Total conifers/1000 ft	91
Total conifers >20" dbh/1000 ft	30
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.0	0.0	0.5	0.0	0.5	0.0	2.0
15-30cm	0.0	1.5	0.0	1.5	0.0	0.5	0.0	3.5
30-50cm	0.5	2.0	0.0	0.5	0.5	0.5	1.0	3.0
50-90cm	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.5	4.5	0.0	2.5	1.0	1.5	0.5	2.8

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	58		26		33	
Shrub cover	40		35		35	
Grass/forb cover	45		28		65	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		25		100	
High terrace	50		50		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		25		0	
Riprap	0		0		0	
Surface slope (%)	41		16		44	

Summary of Riparian Zone (0-30m) for all reaches 2 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	518
Total conifers/1000 ft	91
Total conifers >20" dbh/1000 ft	30
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	2.0
15-30cm	0.0	3.5
30-50cm	1.0	3.0
50-90cm	0.5	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		
11	RT	3	HS	45	60	50	50	Conifer				1			
								Hardwood				1			
11	LF	1	HT	0	0	20	30	Conifer							
								Hardwood							
11	LF	2	HT	0	0	30	20	Conifer							
								Hardwood	1						
11	LF	3	HS	45	70	70	30	Conifer					1		
								Hardwood	1	1					
11	RT	2	HS	65	75	50	50	Conifer							
								Hardwood		3	1				
11	RT	1	HS	70	80	70	20	Conifer				1			
								Hardwood	2	1					
23	RT	1	HT	0	60	60	40	Conifer							
								Hardwood		1					
23	LF	3	HS	55	0	10	90	Conifer							
								Hardwood							
23	LF	1	HS	95	90	10	90	Conifer							
								Hardwood		1	4				
23	RT	2	HT	0	30	60	40	Conifer							
								Hardwood							
23	RT	3	HS	30	0	10	90	Conifer							
								Hardwood							
23	LF	2	RB	0	0	0	0	Conifer							
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 166 KING CREEK LOWER POST-TX (MS-1)

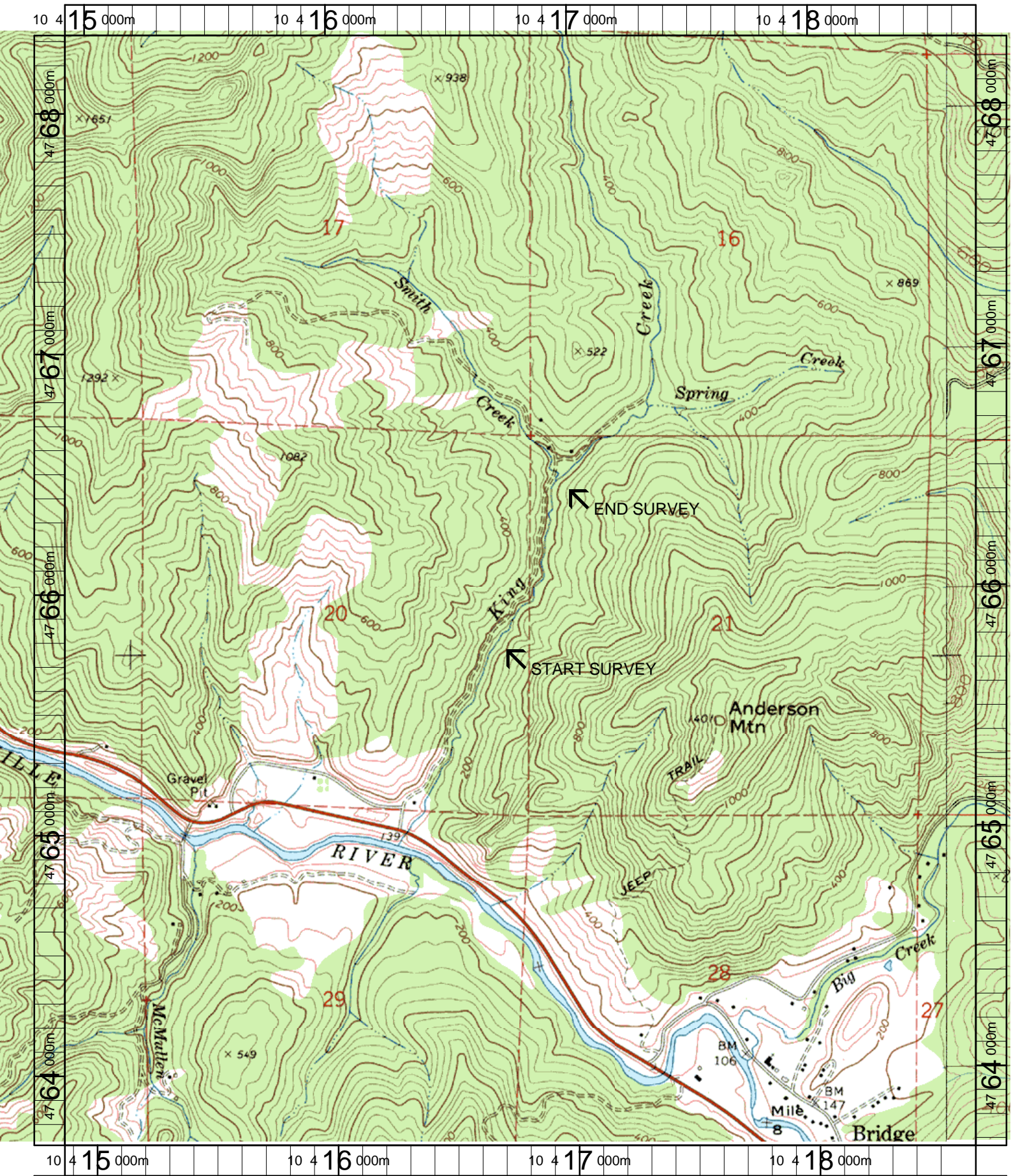
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	5.7		REACH PHOTO #45	START
4	RI	00	41.6	HS		
5	RI	00	62.6	HS		
6	LP	00	81	HS, DJ		
8	LP	00	103.8	/SS, WL		1M UNDERCUT, FISH
9	PD	00	112.6	HS, DJ		
10	LP	00	118.5	WL	MAIN CHANNEL POOL	NEWT
11	DU	00	127.8		RIP PHOTO #38 (BROCK)	
12	RI	00	134.3	HS		
13	LP	00	140.9	HS		2M UNDERCUT
14	PD	00	163.1	HS, WL		FISH
15	LP	00	171.6	HS, WL		NEWT
16	RI	00	193.8	HS		.25M POCKET W/ FISH
17	LP	00	203.2	HS, WL		FISH, NEWT
18	RI	00	215.7	HS		
19	LP	00	227	HS, WL		1M UNDERCUT, NEWT
21	LP	00	241.2	HS, WL	MAIN CHANNEL	NEWTS
23	RI	00	276.7		RIP PHOTO #39	
26	LP	00	301.4	WL	2 POOLS SEPERATED BY	COHO
28	LP	00	320.9	WL		FISH
30	LP	00	348.6	CS/, WL		CAR BODY, FISH, 1.4M UNDE

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 166 KING CREEK LOWER POST-TX (MS-1)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
31	PD	01	370.1	TJ/	COHO PRESENT THROU	SMITH CR (DRY)
32	DU	11	370.1			END



<p>Name: BRIDGE Date: 6/11/2003 Scale: 1 inch equals 1666 feet</p>	<p>Location: 10 416778 E 4766000 N Caption: KING CREEK LOWER RESTORATION SITE - MF COQUILLE BASIN</p>
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