

REACH 1

T15S-R03E-S28NE

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	9.4	VWI Range:	8 - 10

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	499	1,801	0
Secondary	140	254	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.2	Width	6.1	11.0	15.9
Depth	0.20	Height	0.5	1.0	1.7
		W:D ratio	12.0	Entrenchment	1.9
Stream Flow Type:	LF	Water temp (C):		12.0 - 12.0	
Avg. Unit Gradient:	6.7%	Habitat Units/100m:		9.6	

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	7%	Reach avg: 91%
Undercut Banks:	3%	Range: 47 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	51	10.2
Volume (m ³):	104	20.8
Key pieces (>=10m x 0.60m):	8	1.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

KING CREEK PRE-TX (W-39)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/8/02

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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	16	309	3.0	0.15	1,005	257	2	11	24	46	17	1	
CULVERT CROSSING	1	17	3.5	0.15	61	25	0	0	20	50	30	0	
DRY CHANNEL	1	32	2.1	0.00	67	0	60	20	20	0	0	0	
POOL-LATERAL SCOUR	5	28	3.2	0.42	86	10	20	22	22	20	15	0	
POOL-PLUNGE	3	10	4.9	0.78	45	7	10	21	20	30	20	0	
POOL-STRAIGHT SCOUR	1	4	2.5	0.25	11	0	50	25	20	5	0	0	
RAPID/BOULDERS	10	205	3.0	0.14	673	123	7	14	30	42	8	0	
STEP/BOULDERS	5	11	3.4	0.11	41	56	0	2	13	24	62	0	
STEP/COBBLE	1	3	1.0	0.10	3	2	10	20	20	40	10	0	
STEP/LOG	5	19	3.4	0.08	63	4	12	17	20	47	4	0	
Total:	48	639	3.2	0.20	2,055	484	Avg 8	13	23	37	18	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	0	0			0	0.00%	0	0.0	
Scour Pools	9	43	3.7	0.52	143	6.94%	17	11.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	0	0			0	0.00%	0	0.0	
Rapids	10	205	3.0	0.14	673	32.74%	123	18.3	
Cascades	16	309	3.0	0.15	1,005	48.90%	257	25.6	
Step/Falls	11	34	3.2	0.10	107	5.20%	62	58.0	
Dry	1	32	2.1	0.00	67	3.27%	0	0.0	
Culverts	1	17	3.5	0.15	61	2.95%	25	41.3	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	9	18.0
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	0	0.0
Pool frequency (channel widths/pool):	11.6	
Residual pool depth (avg):	0.44	

RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000	813
Total conifers/1000 ft	163
Total conifers >20" dbh/1000 ft	20
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	0.7	1.3	1.3	2.3	0.3	0.7	2.3	4.3
15-30cm	0.0	1.3	0.0	2.3	0.0	0.3	0.0	4.0
30-50cm	0.0	1.7	0.0	3.0	0.0	0.0	0.0	4.7
50-90cm	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	4.3	1.7	8.0	0.3	1.0	0.9	4.4

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	98	83	30
Shrub cover	54	50	18
Grass/forb cover	43	42	67

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	50
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	33
Riprap	0	0	0
Surface slope (%)	0	8	6

RIPARIAN ZONE VEGETATION

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Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
5	LF	1	HT	0	90	40	60	Conifer	1						
								Hardwood	1						
5	LF	2	HT	0	80	30	70	Conifer	2				1		
								Hardwood	1	3	2				
5	LF	3	HT	0	0	10	90	Conifer	1						
								Hardwood							
5	RT	1	HT	0	100	20	80	Conifer							
								Hardwood		4	1				
5	RT	2	HT	0	100	10	90	Conifer							
								Hardwood	2		1				
5	RT	3	HT	0	0	0	100	Conifer							
								Hardwood							
23	LF	1	HT	0	100	95	5	Conifer							
								Hardwood			2				
23	LF	2	HS	45	90	80	20	Conifer							
								Hardwood	1		1				
23	LF	3	HS	35	70	20	80	Conifer							
								Hardwood	2	1					
23	RT	1	HT	0	100	80	20	Conifer	1						
								Hardwood	3						
23	RT	2	HT	0	100	80	20	Conifer	1						PARTIAL SECONDARY CHANNFI
								Hardwood	3	4	2				
23	RT	3	HT	0	100	80	20	Conifer							
								Hardwood							
41	LF	1	HT	0	100	70	10	Conifer							
								Hardwood			1				
41	LF	2	HT	0	30	100	0	Conifer	1						
								Hardwood			2				
41	LF	3	RB	0	0	0	80	Conifer							
								Hardwood							
41	RT	1	HT	0	100	20	80	Conifer							
								Hardwood			1				
41	RT	2	HT	0	100	0	50	Conifer							
								Hardwood			1	1			
41	RT	3	RB	0	10	0	30	Conifer							70% ROAD BED
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W SITE ID: 39 KING CREEK PRE-TX (W-39)

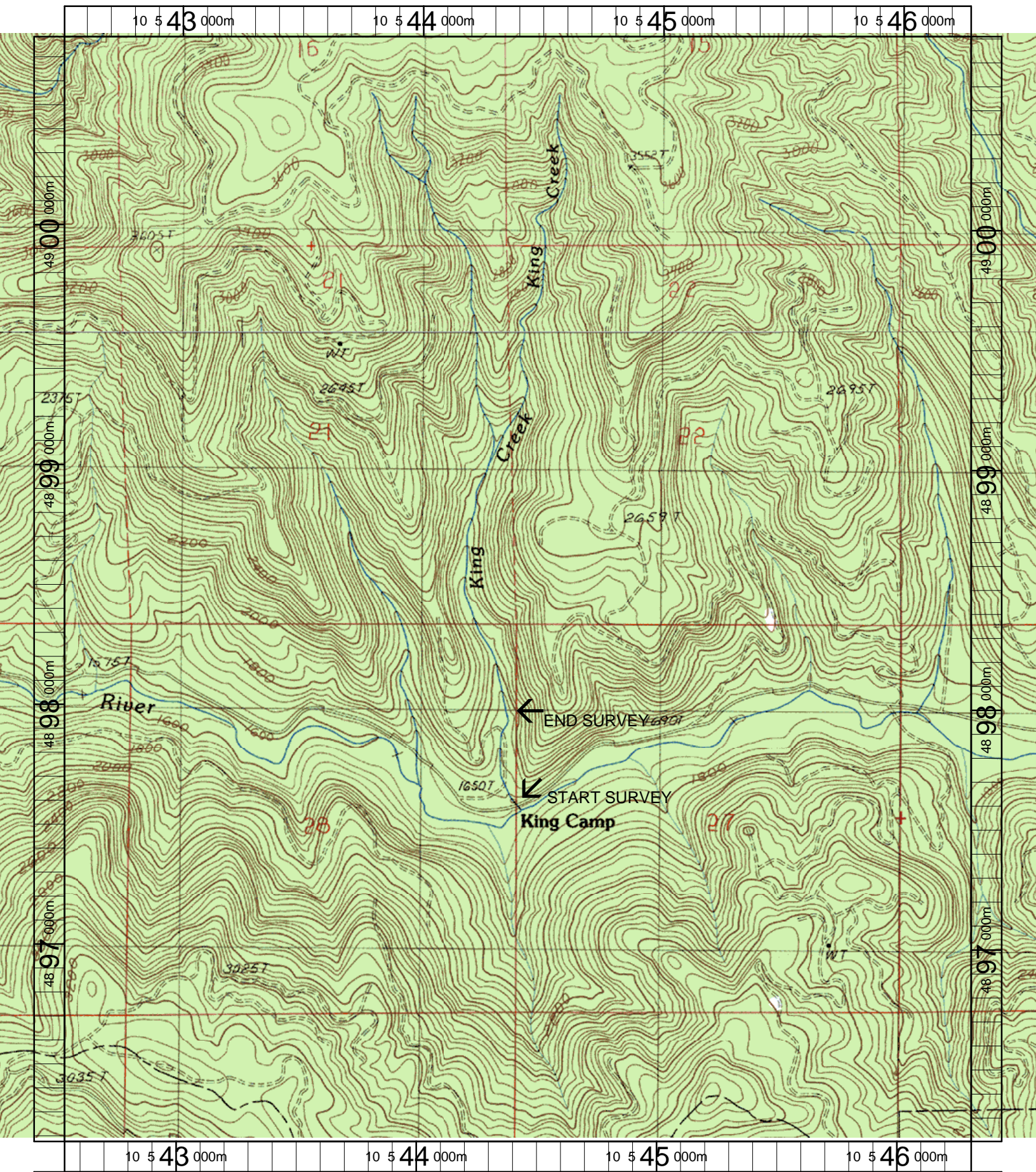
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	25.6		START SURVEY ABOVE C	CC AT BOTTOM OF UNIT
2	CB	00	54.6			.5M POCKET
5	RB	00	123.2		RIP#1	RIP#1
10	CB	00	185.3		SMALL 3 X 3 POCKET	
13	CB	00	202.5			LARGE COBBLE DEPOSIT
14	SL	00	202.7		H=.3	
15	RB	01	231.7		02 & 03 CONNECT TO THI	
17	SL	01	237		H=.4	
20	SL	01	245.4	PN	H=.7, 02 CONNECTS	
21	CB	02	245.4	SS/	SS/	
22	SL	02	245.4		H=1.1	FLOWS THROUGH JAM
23	RB	01	270.4		RIP#2	RIP#2
24	CB	01	295.4		SALMONID FRY	
26	LP	01	312	BV	OLD BV NEXT 5 UNITS	OLD
27	SB	01	316.4	BV		
28	RB	03	316.4	BV		
29	SB	03	316.4	BV		
30	SP	03	316.4	BV		
31	SC	03	316.4		ACW = 1.5	
37	SL	03	316.4			SUB SURFACE FLOW
39	CB	00	362.8	SS/		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W SITE ID: 39 KING CREEK PRE-TX (W-39)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
40	LP	00	367.5		SS/	
41	CB	00	392.5		RIP#3	CABLE, POCKET .5M
44	CC	00	452	CC	NATURAL BOTTOM	H=2.2, W=3.5 NATURAL BOT
47	SB	00	487.7		H=.8	
48	RB	00	499.2		END SIGN	END OF SURVEY



Name: MT HAGAN
Date: 3/20/2003
Scale: 1 inch equals 1666 feet

Location: 10 544403 E 4898497 N
Caption: KING CREEK RESTORATION SITE - CALAPOOIA BASIN