

REACH 1

T15S-R3E-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 avg: 2.9 range: 1.2-5.0

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	542	1,494	0
Secondary	115	195	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.6	Width	4.9	7.5	8.3
Depth	0.20	Height	0.5	0.9	1.2
		W:D ratio	10.3	Entrenchment	1.6

Stream Flow Type: LF Water Temp: 12.0-12.0°C  
 Avg. Unit Gradient: 7.8% Habitat Units/100m: 5.3

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	9%	Reach avg: 94%
Undercut Banks	10%	Range: 53-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	57	10.5
Volume (m <sup>3</sup> )	95	17.5
Key pieces (≥10m x 0.6m)	4	0.7

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	8	224	2.7	0.20	609	129	4	13	32	29	22	0
CULVERT CROSSING	2	32	2.4	0.18	82	23	3	5	30	30	33	0
POOL-BACKWATER	1	3	2.0	0.20	5	0	30	15	35	20	0	0
POOL-BEAVER DAM	1	4	2.5	0.55	11	4	5	16	37	37	5	0
POOL-PLUNGE	2	7	5.0	0.65	31	3	8	18	35	36	4	0
RAPID/BOULDERS	13	297	2.6	0.21	787	125	5	15	33	36	11	0
RIFFLE	2	78	1.8	0.10	140	4	10	40	40	8	3	0
STEP/BOULDERS	2	5	2.0	0.13	13	24	0	3	8	13	78	0
STEP/COBBLE	1	2	0.8	0.02	2	0	0	10	35	55	0	0
STEP/LOG	3	5	2.3	0.01	9	0	5	7	29	54	5	0
<b>Total:</b>	<b>35</b>	<b>656</b>	<b>2.6</b>	<b>0.20</b>	<b>1,689</b>	<b>312</b>	<b>Avg: 5</b>	<b>14</b>	<b>32</b>	<b>33</b>	<b>16</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	2	7	2.3	0.38	16	0.94	4	25.3
Scour Pools	2	7	5.0	0.65	31	1.84	3	9.7
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	2	78	1.8	0.10	140	8.31	4	2.8
Rapids	13	297	2.6	0.21	787	46.61	125	15.9
Cascades	8	224	2.7	0.20	609	36.03	129	21.2
Step/Falls	6	12	1.9	0.05	24	1.39	24	102.1
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	4	6.1
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	1	1.5
Pool Frequency (channel widths/pool):	33.8	
Residual pool depth (avg)	0.57m	

STREAM SUMMARY

KING CREEK PRE-TX (#39)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
35	656	2.6	0.20	1,689	5	14	32	33	16	0	312

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	31	1.8
Backwater Pools	16	0.9
Glide	0	0.0
Riffle	140	8.3
Rapid	787	46.6
Cascade	609	36.0
Step	24	1.4
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	1,402
Total conifers/1000 ft	224
Total conifers >20" dbh/1000 ft	41
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	2.0	4.0	0.0	4.7	1.0	2.0	3.0	10.7
15-30cm	0.0	2.7	0.0	2.3	0.0	1.0	0.0	6.0
30-50cm	0.0	2.7	0.0	2.0	0.0	0.3	0.0	5.0
50-90cm	0.0	1.0	0.7	0.0	0.0	0.0	0.7	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
Total/100m <sup>2</sup>	2.0	10.3	0.7	9.0	1.0	3.7	1.2	7.7

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	86		77		40	
Shrub cover	58		53		25	
Grass/forb cover	31		37		59	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		83		100
High terrace	67		0		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		17		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	8		19		14	

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

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

Total hardwoods/1000 ft	1,402
Total conifers/1000 ft	224
Total conifers >20" dbh/1000 ft	41

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	3.0	10.7
15-30cm	0.0	6.0
30-50cm	0.0	5.0
50-90cm	0.7	1.0
>90cm	0.0	0.3

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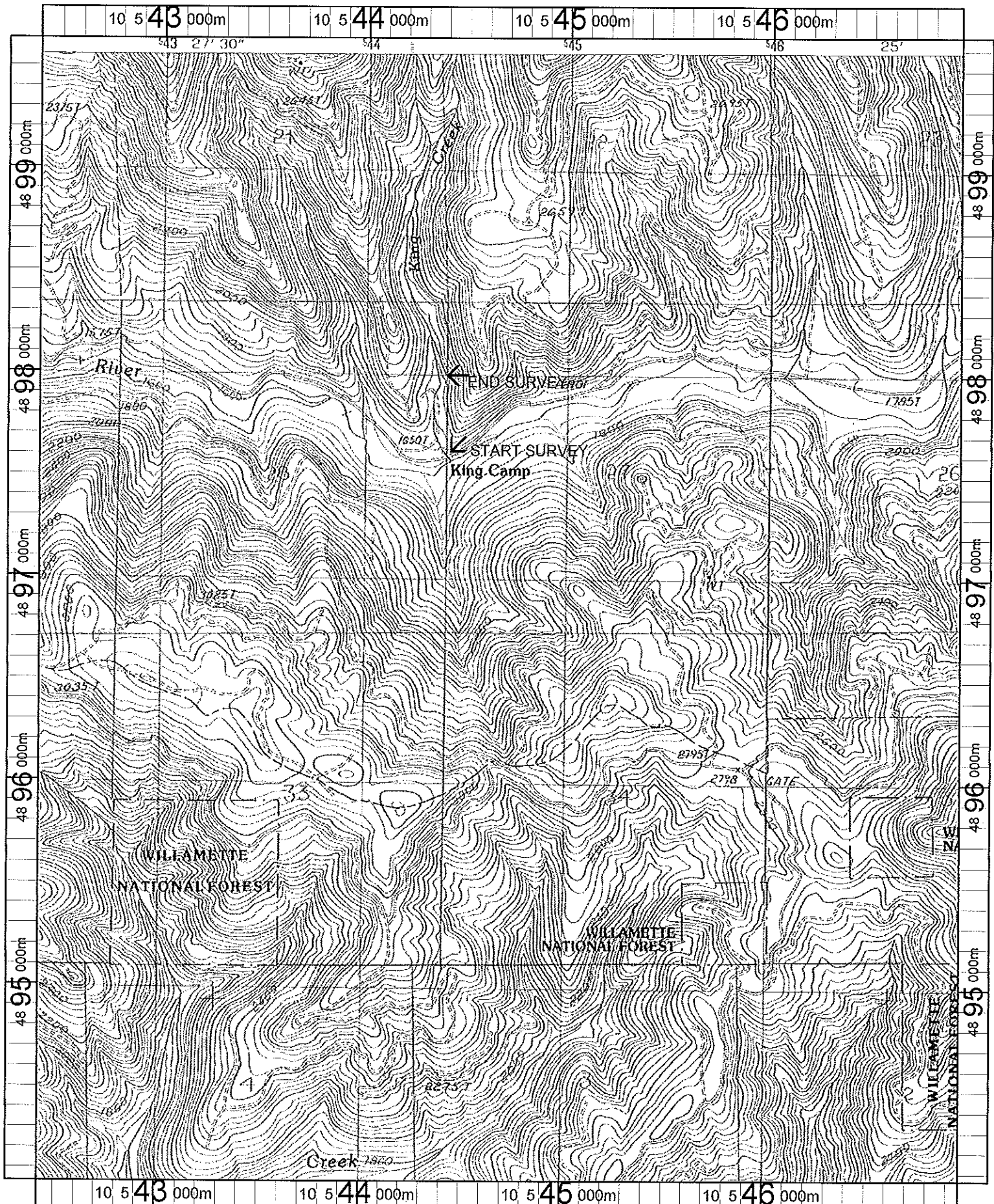
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
8	LF	1	HT	0.0	80	70	20	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	2	HS	5.0	35	65	20	Conifer	0	0	0	1	0	
								Hardwood	2	0	2	0	0	
8	LF	3	HS	5.0	0	40	55	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEAR CUT, NO TREES
8	RT	1	HT	0.0	95	35	40	Conifer	0	0	0	0	0	
								Hardwood	0	5	2	1	0	
8	RT	2	HS	15.0	95	25	50	Conifer	0	0	0	1	0	
								Hardwood	1	1	0	0	0	
8	RT	3	HS	5.0	0	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
22	LF	1	HS	20.0	80	65	30	Conifer	1	0	0	0	0	
								Hardwood	0	2	3	0	0	
22	LF	2	HS	35.0	70	75	25	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
22	LF	3	HS	40.0	60	30	60	Conifer	3	0	0	0	0	
								Hardwood	0	3	0	0	0	
22	RT	1	HT	0.0	85	60	35	Conifer	2	0	0	0	0	
								Hardwood	2	1	0	1	0	
22	RT	2	SC	0.0	90	40	50	Conifer	0	0	0	0	0	
								Hardwood	0	3	2	0	0	
22	RT	3	HS	10.0	90	60	35	Conifer	0	0	0	0	0	
								Hardwood	2	0	1	0	1	
29	LF	1	HS	30.0	85	90	5	Conifer	0	0	0	0	0	
								Hardwood	2	0	1	1	0	
29	LF	2	HS	25.0	75	95	5	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	
29	LF	3	HS	5.0	0	10	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
29	RT	1	HT	0.0	90	30	55	Conifer	1	0	0	0	0	
								Hardwood	8	0	2	0	0	
29	RT	2	HS	35.0	95	15	70	Conifer	0	0	0	0	0	
								Hardwood	10	0	1	0	0	
29	RT	3	HS	20.0	90	10	80	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	



Name: MT HAGAN  
 Date: 1/10/2002  
 Scale: 1 inch equals 2000 feet

Location: 10 544676 E 4896850 N  
 Caption: KING CREEK RESTORATION SITE - CALAPOOIA BASIN