

REACH 1

T32S-R15W-36SE

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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	0
Moderate V-shape	100	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 2.4 range: 1.1-3.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	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	594	2,863	0
Secondary	34	35	0

Channel Dimensions (m)

	<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>
Width	4.4	Width	9.7		21.9		11.2
Depth	0.41	Height	0.7		1.4		1.1
		W:D ratio	13.4	Entrenchment	2.3		

Stream Flow Type: MF Water Temp: 7.0-7.0°C
 Avg. Unit Gradient: 1.4% Habitat Units/100m: 6.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	D30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	97	16.3
Volume (m ³)	100	16.8
Key pieces ($\geq 10m \times 0.6m$)	2	0.3

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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	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	2	17	2.7	0.20	42	0	0	0	5	45	50	0
POOL-ALCOVE	1	13	0.8	0.18	11	0	0	90	10	0	0	0
POOL-BACKWATER	1	11	1.2	0.20	13	0	0	0	70	0	0	30
POOL-DAMMED	1	5	4.5	0.62	21	0	0	10	50	40	0	0
POOL-LATERAL SCOUR	7	101	4.5	0.70	460	0	0	3	60	29	8	0
POOL-PLUNGE	1	11	4.7	0.80	50	0	0	0	80	0	10	10
POOL-STRAIGHT SCOUR	6	71	4.4	0.67	306	0	0	2	50	36	13	0
RAPID/BOULDERS	7	120	4.8	0.25	570	0	0	0	19	43	39	0
RIFFLE	11	244	4.9	0.22	1,224	0	0	0	40	52	7	0
RIFFLE W/ POCKETS	1	35	5.8	0.40	203	0	0	0	30	40	30	0
Total:	38	628	4.4	0.41	2,898	0	Avg: 0	4	40	39	16	1

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Wetted Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	3	29	2.2	0.33	44	1.52	0	0.0
Scour Pools	14	183	4.5	0.69	816	28.15	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	12	279	5.0	0.24	1,427	49.22	0	0.0
Rapids	7	120	4.8	0.25	570	19.66	0	0.0
Cascades	2	17	2.7	0.20	42	1.45	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	17	27.1
Pools ≥1m deep:	1	1.6
Complex pools (LWD pieces ≥3):	9	14.3
Pool Frequency (channel widths/pool):	3.8	
Residual pool depth (avg)	0.44m	

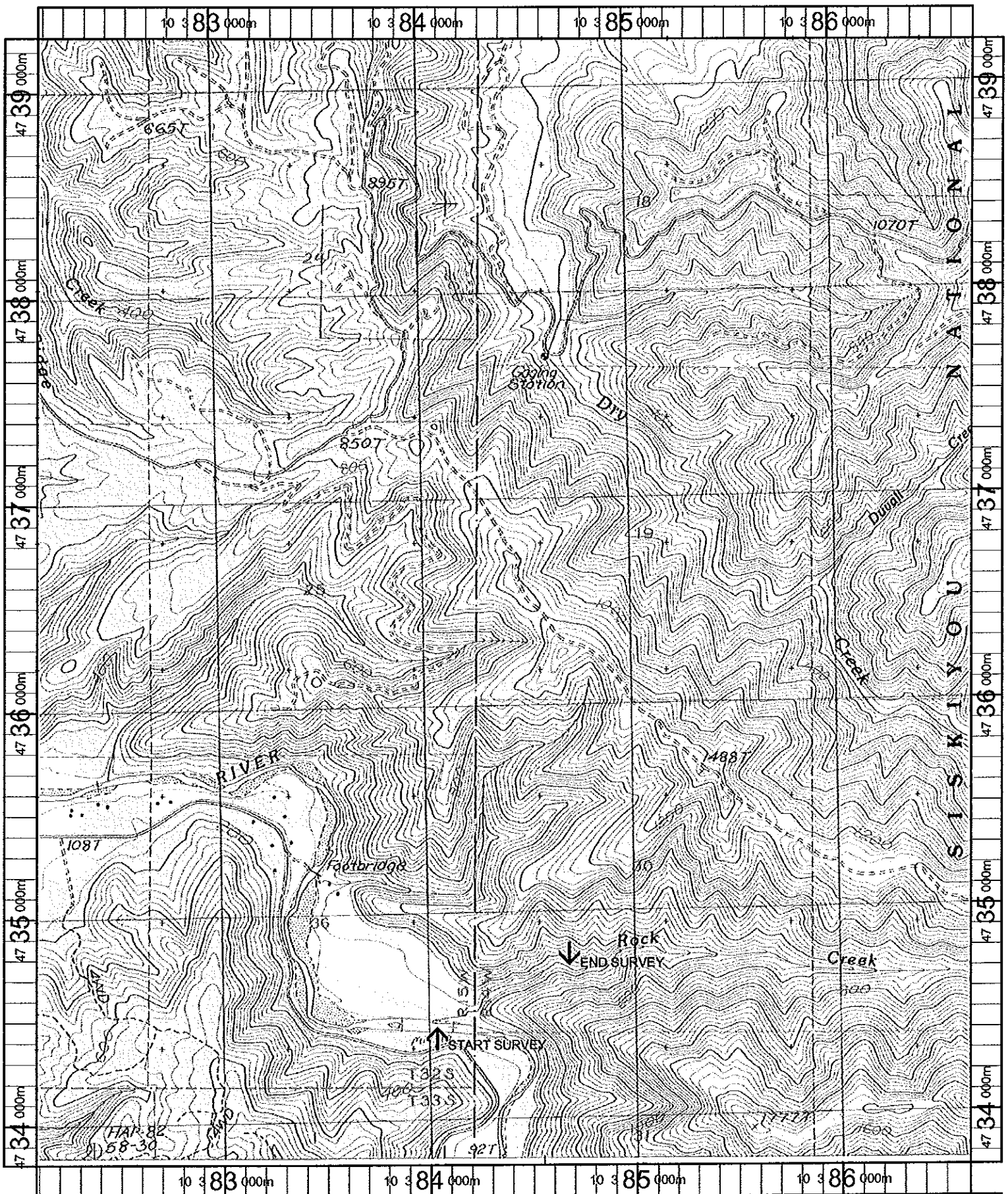
STREAM SUMMARY

ROCK CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
38	628	4.4	0.41	2,898	0	4	40	39	16	1	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	816	28.1
Backwater Pools	44	1.5
Glide	0	0.0
Riffle	1,427	49.2
Rapid	570	19.7
Cascade	42	1.4
Step	0	0.0
Dry	0	0.0



Name: SIXES
 Date: 10/16/100
 Scale: 1 inch equals 2000 feet

Location: 10 384293 E 4736487 N
 Caption: ROCK CREEK RESTORATION SITE - ELK RIVER BASIN