

REACH 1

T38S-R14W-S14SE

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

Valley Width Index avg: 2.7 range: 1.0-5.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	100		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	777	4,162	0
Secondary	20	76	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.3	Width	8.0	11.0	13.0
Depth	0.38	Height	0.6	1.2	1.7
		W:D ratio	13.9	Entrenchment	1.4

Stream Flow Type: MF Water Temp: 14.0-14.0°C  
Avg. Unit Gradient: 3.8% Habitat Units/100m: 4.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	ST
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: 83%
Undercut Banks	1%	Range: 53-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	60	7.7
Volume (m <sup>3</sup> )	123	15.8
Key pieces (≥10m x 0.6m)	5	0.6

REACH 1

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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	1	51	4.0	0.35	202	28	0	10	20	50	20	0
GLIDE	2	31	5.1	0.35	159	5	5	13	58	20	5	0
POOL-LATERAL SCOUR	3	30	5.6	0.87	161	3	3	17	50	20	3	7
POOL-PLUNGE	3	26	8.3	0.93	216	6	7	17	37	32	8	0
POOL-STRAIGHT SCOUR	3	32	6.3	0.77	206	15	10	23	35	27	5	0
RAPID/BOULDERS	13	490	5.1	0.21	2,566	118	0	3	47	40	10	0
RIFFLE	4	135	5.6	0.15	725	16	0	3	59	33	6	0
STEP/LOG	3	2	2.0	0.06	4	0	0	28	35	25	12	0
<b>Total:</b>	<b>32</b>	<b>797</b>	<b>5.3</b>	<b>0.38</b>	<b>4,239</b>	<b>191</b>	<b>Avg: 2</b>	<b>10</b>	<b>45</b>	<b>33</b>	<b>8</b>	<b>1</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Area Percent	Large Boulders Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	9	88	6.7	0.86	583	13.75	24	4.1
Glides	2	31	5.1	0.35	159	3.76	5	3.1
Riffles	4	135	5.6	0.15	725	17.10	16	2.2
Rapids	13	490	5.1	0.21	2,566	60.54	118	4.6
Cascades	1	51	4.0	0.35	202	4.77	28	13.9
Step/Falls	3	2	2.0	0.06	4	0.09	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	9	11.3
Pools ≥1m deep:	4	5.0
Complex pools (LWD pieces ≥3):	2	2.5
Pool Frequency (channel widths/pool):	11.1	
Residual pool depth (avg)	0.69m	

STREAM SUMMARY

DEEP CREEK PRE-TX (#79)

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	
32	797	5.3	0.38	4,239	2	10	45	33	8	1	191

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	583	13.7
Backwater Pools	0	0.0
Glide	159	3.8
Riffle	725	17.1
Rapid	2,566	60.5
Cascade	202	4.8
Step	4	0.1
Dry	0	0.0

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	914
Total conifers/1000 ft	325
Total conifers >20" dbh/1000 ft	0
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	0.3	6.0	0.3	1.0	1.7	2.0	2.3	9.0
15-30cm	0.0	0.3	1.0	2.0	2.0	1.0	3.0	3.3
30-50cm	0.0	0.3	0.0	1.0	0.0	0.7	0.0	2.0
50-90cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
>90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Total/100m <sup>2</sup>	0.3	7.0	1.3	4.3	3.7	3.7	1.8	5.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	77		75		71	
Shrub cover	22		37		42	
Grass/forb cover	67		55		47	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		50		67
High terrace	50		33		33	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	17		17		0	
Riprap	0		0		0	
Surface slope (%)	15		28		40	

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	914
Total conifers/1000 ft	325
Total conifers >20" dbh/1000 ft	0

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	2.3	9.0
15-30cm	3.0	3.3
30-50cm	0.0	2.0
50-90cm	0.0	0.3
>90cm	0.0	0.3

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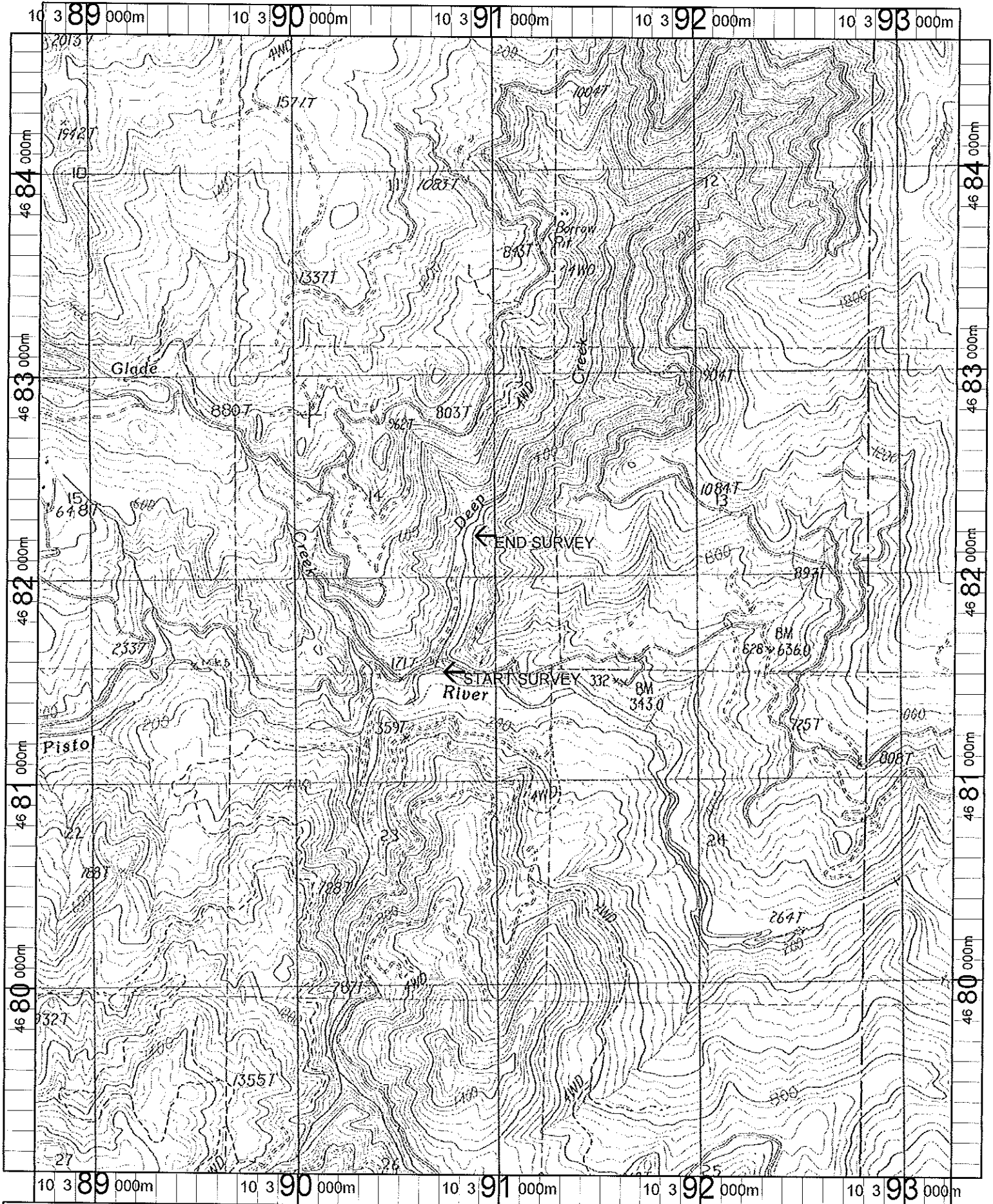
RIPARIAN ZONE VEGETATION

Reach 1

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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	
7	LF	1	HT	0.0	80	30	40	Conifer	0	0	0	0	0	
								Hardwood	2	1	1	0	0	ALDER
7	LF	2	RB	0.0	80	20	60	Conifer	0	1	0	0	0	
								Hardwood	0	2	0	0	0	
7	LF	3	HS	50.0	70	80	10	Conifer	2	1	0	0	0	
								Hardwood	0	1	0	0	0	
7	RT	1	HS	30.0	100	30	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	1	MYRTLE
7	RT	2	HS	50.0	90	0	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	1	0	
7	RT	3	HS	60.0	90	10	80	Conifer	0	2	0	0	0	
								Hardwood	0	0	1	0	0	
18	LF	1	RB	0.0	70	0	80	Conifer	1	0	0	0	0	
								Hardwood	2	0	0	0	0	
18	LF	2	HS	60.0	70	80	20	Conifer	0	2	0	0	0	
								Hardwood	1	1	0	0	0	
18	LF	3	HS	60.0	70	80	10	Conifer	1	2	0	0	0	
								Hardwood	1	1	0	0	0	
18	RT	1	HT	0.0	80	0	100	Conifer	0	0	0	0	0	
								Hardwood	8	0	0	0	0	ALDER
18	RT	2	HT	0.0	70	50	40	Conifer	1	0	0	0	0	
								Hardwood	2	1	0	0	0	
18	RT	3	HT	0.0	65	40	40	Conifer	2	1	0	0	0	
								Hardwood	2	0	0	0	0	
28	LF	1	HT	0.0	70	40	60	Conifer	0	0	0	0	0	
								Hardwood	6	0	0	0	0	ALDER
28	LF	2	HT	0.0	70	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	ALDER
28	LF	3	HT	0.0	70	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	ALDER
28	RT	1	HS	60.0	60	30	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	FERNS
28	RT	2	HS	60.0	70	30	70	Conifer	0	0	0	0	0	
								Hardwood	0	2	2	0	0	
28	RT	3	HS	70.0	60	10	80	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	



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

Location: 10 391010 E 4681860 N  
 Caption: DEEP CREEK RESTORATION SITE - PISTOL BASIN