

REACH 1

T5S-R9W-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: 5.4 range: 4.0-6.0

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	676	2,940	0
Secondary	201	507	5

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 3.7		6.8	19.0	12.8
Depth 0.34	Height	0.5	1.0	2.4
	W:D ratio	14.6	Entrenchment	2.8

Stream Flow Type: MF Water Temp: 10.0-10.0°C  
 Avg. Unit Gradient: 1.2% Habitat Units/100m: 6.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M30	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	2%	Reach avg: 88%
Undercut Banks	6%	Range: 53-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	66	9.8
Volume (m <sup>3</sup> )	150	22.2
Key pieces ( $\geq 10m \times 0.6m$ )	14	2.1

HABITAT UNIT SUMMARY

REACH <sup>1</sup> 0 T5S-R9W-S28NE REACH <sup>1</sup> 0

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
DRY CHANNEL	2	37	4.5	0.00	175	0	6	24	35	35	0	0
POOL-LATERAL SCOUR	26	288	3.5	0.54	1,032	2	5	19	38	31	1	6
POOL-PLUNGE	2	12	3.6	0.68	43	0	3	21	21	53	3	0
PUDDLED CHANNEL	3	87	2.0	0.11	228	0	23	50	25	2	0	0
RAPID/BOULDERS	1	16	0.7	0.05	11	0	5	26	68	0	0	0
RIFFLE	19	436	4.3	0.15	1,953	25	0	12	32	51	5	1
STEP/COBBLE	1	2	3.0	0.14	5	0	0	0	20	80	0	0
<b>Total:</b>	<b>54</b>	<b>877</b>	<b>3.7</b>	<b>0.34</b>	<b>3,447</b>	<b>27</b>	<b>Avg: 4</b>	<b>18</b>	<b>34</b>	<b>37</b>	<b>3</b>	<b>3</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	0	0	-	-	0	0.00	0	0.0
Scour Pools	28	300	3.5	0.55	1,075	31.18	2	0.2
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	19	436	4.3	0.15	1,953	56.66	25	1.3
Rapids	1	16	0.7	0.05	11	0.32	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	2	3.0	0.14	5	0.13	0	0.0
Dry	5	124	3.0	0.06	403	11.70	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	28	31.9
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	7	8.0
Pool Frequency (channel widths/pool):	4.6	
Residual pool depth (avg)	0.37m	

**STREAM SUMMARY**

**BAXTER CREEK (POST-TX)**

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	
54	877	3.7	0.34	3,447	4	18	34	37	3	3	27

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	1,075	31.2
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	1,953	56.7
Rapid	11	0.3
Cascade	0	0.0
Step	5	0.1
Dry	403	11.7

REACH 01

RIPARIAN ZONE VEGETATION SUMMARY

REACH 01

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

Total hardwoods/1000 ft	1,016
Total conifers/1000 ft	691
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	0.0	0.7	1.7	4.0	0.0	4.0	1.7	8.7
15-30cm	4.0	3.3	0.7	3.3	1.7	0.0	6.3	6.7
30-50cm	1.3	1.3	0.3	0.0	1.0	0.0	2.7	1.3
50-90cm	0.3	0.0	0.3	0.0	0.0	0.0	0.7	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	5.7	5.3	3.0	7.3	2.7	4.0	3.8	5.6

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	96		93		81	
Shrub cover	7		19		28	
Grass/forb cover	60		33		54	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		33		50
High terrace	83		50		33	
Low terrace	17		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		17	
Riprap	0		0		0	
Surface slope (%)	0		20		28	

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	1,016
Total conifers/1000 ft	691
Total conifers >20" dbh/1000 ft	41

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zones 1-3	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	1.7	8.7
15-30cm	6.3	6.7
30-50cm	2.7	1.3
50-90cm	0.7	0.0
>90cm	0.0	0.0

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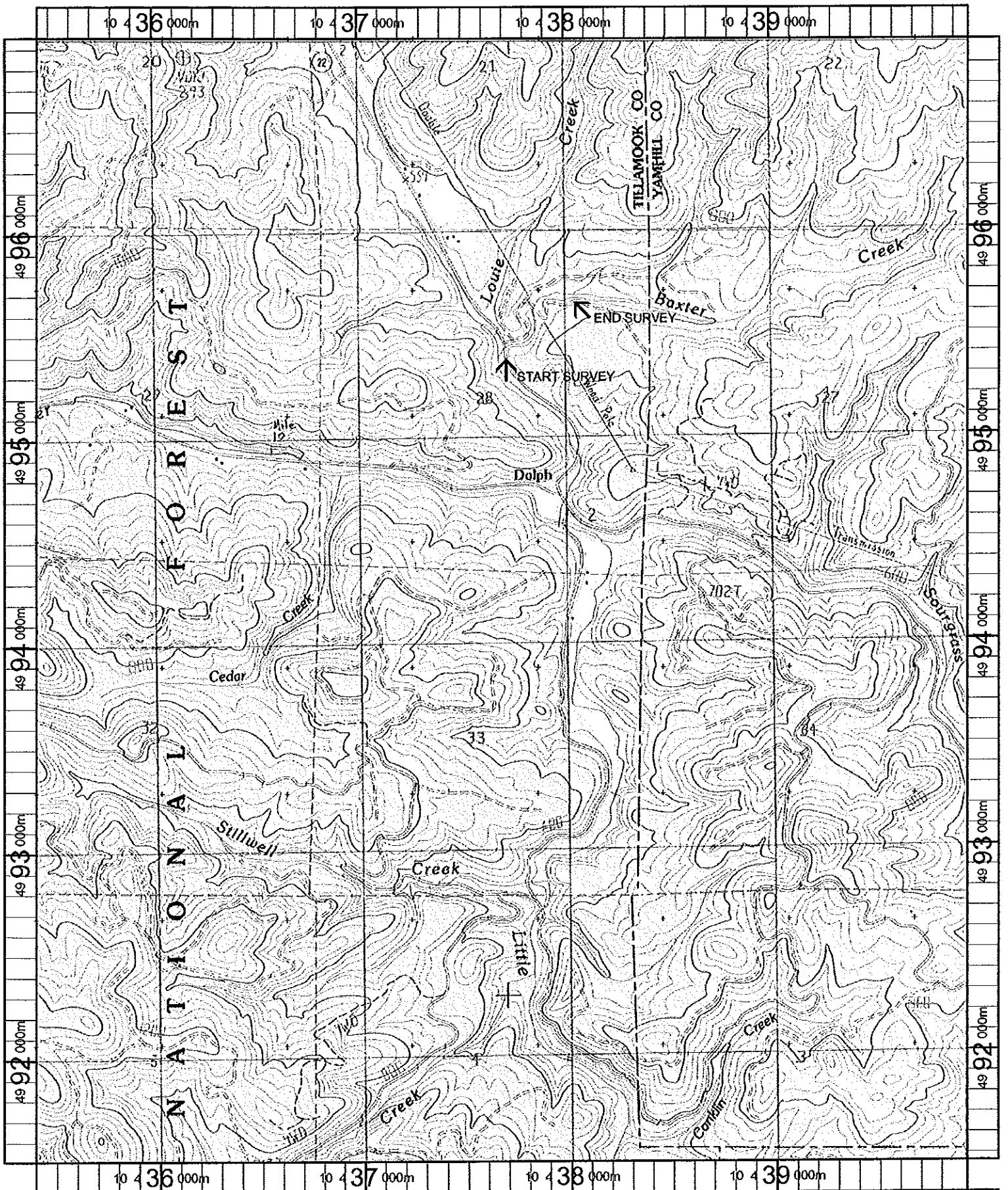
RIPARIAN ZONE VEGETATION

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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	100	10	90	Conifer	0	4	0	0	0	
								Hardwood	2	3	1	0	0	
8	LF	2	HT	0.0	100	5	20	Conifer	5	0	0	0	0	
								Hardwood	5	8	0	0	0	
8	LF	3	RB	30.0	80	10	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	RT	1	HT	0.0	100	0	40	Conifer	0	2	3	0	0	
								Hardwood	0	3	0	0	0	BARE GROUND
8	RT	2	HS	95.0	80	90	5	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
8	RT	3	HS	90.0	95	80	5	Conifer	0	1	1	0	0	
								Hardwood	2	0	0	0	0	
19	LF	1	HT	0.0	100	0	10	Conifer	0	6	0	0	0	
								Hardwood	0	0	1	0	0	
19	LF	2	HS	25.0	100	0	65	Conifer	0	1	0	0	0	
								Hardwood	6	0	0	0	0	
19	LF	3	HS	25.0	65	40	50	Conifer	0	1	0	0	0	
								Hardwood	8	0	0	0	0	
19	RT	1	LT	0.0	95	20	60	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
19	RT	2	LT	0.0	85	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
19	RT	3	HS	25.0	60	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
35	LF	1	HT	0.0	80	0	70	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
35	LF	2	HT	0.0	95	10	40	Conifer	0	1	0	1	0	
								Hardwood	0	0	0	0	0	
35	LF	3	HT	0.0	95	5	70	Conifer	0	3	1	0	0	
								Hardwood	0	0	0	0	0	
35	RT	1	HT	0.0	100	10	90	Conifer	0	0	0	1	0	
								Hardwood	0	2	2	0	0	
35	RT	2	HT	0.0	100	10	10	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
35	RT	3	HT	0.0	90	30	70	Conifer	0	0	1	0	0	
								Hardwood	2	0	0	0	0	



Name: DOLPH  
 Date: 11/8/100  
 Scale: 1 inch equals 2000 feet

Location: 10 437586 E 4994193 N  
 Caption: BAXTER CREEK RESTORATION SITE - NESTUCCA BASIN