

REACH 1

T3S-R9W-24SW

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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: 2.5 range: 1.0-4.0

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	500	2,773	0
Secondary	76	235	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.3	Width	8.9	18.2	17.0
Depth	0.40	Height	0.8	1.6	1.2
		W:D ratio	11.7	Entrenchment	2.0

Stream Flow Type: MF Water Temp: 11.0-11.0°C  
Avg. Unit Gradient: 2.0% Habitat Units/100m: 4.7

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 91%
Undercut Banks	6%	Range: 78-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	31	6.2
Volume (m <sup>3</sup> )	30	6.1
Key pieces ( $\geq 10m \times 0.6m$ )	0	0.0

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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
DRY CHANNEL	1	54	3.7	0.00	200	0	10	30	50	10	0	0
POOL-BACKWATER	1	9	0.8	0.20	7	0	5	10	19	0	0	67
POOL-LATERAL SCOUR	7	149	5.4	0.84	790	5	4	22	28	13	2	30
RAPID/BEDROCK	5	138	5.0	0.32	706	12	1	7	9	5	3	76
RAPID/BOULDERS	1	13	2.1	0.10	27	0	5	32	32	32	0	0
RIFFLE	10	200	6.1	0.26	1,194	13	0	13	29	35	7	16
STEP/BOULDERS	2	13	6.5	0.25	83	6	0	9	33	21	30	7
<b>Total:</b>	<b>27</b>	<b>576</b>	<b>5.3</b>	<b>0.40</b>	<b>3,008</b>	<b>36</b>	<b>Avg: 2</b>	<b>15</b>	<b>26</b>	<b>21</b>	<b>6</b>	<b>31</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	#/100m <sup>2</sup>
Dammed & BW Pools	1	9	0.8	0.20	7	0.24	0	0.0
Scour Pools	7	149	5.4	0.84	790	26.26	5	0.6
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	10	200	6.1	0.26	1,194	39.71	13	1.1
Rapids	6	151	4.5	0.28	733	24.38	12	1.6
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	2	13	6.5	0.25	83	2.76	6	7.2
Dry	1	54	3.7	0.00	200	6.66	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	8	13.9
Pools ≥1m deep:	2	3.5
Complex pools (LWD pieces ≥3):	0	0.0
Pool Frequency (channel widths/pool):	8.1	
Residual pool depth (avg)	0.50m	

STREAM SUMMARY

BAYS CREEK (PRE-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	
27	576	5.3	0.40	3,008	2	15	26	21	6	31	36

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	790	26.3
Backwater Pools	7	0.2
Glide	0	0.0
Riffle	1,194	39.7
Rapid	733	24.4
Cascade	0	0.0
Step	83	2.8
Dry	200	6.7

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	2,235
Total conifers/1000 ft	488
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	0.0	8.0	1.3	8.0	2.0	13.0	3.3	29.0
15-30cm	1.0	0.3	0.7	1.0	2.3	0.0	4.0	1.3
30-50cm	0.0	0.7	0.3	2.0	0.3	2.0	0.7	4.7
50-90cm	0.0	1.0	0.0	0.7	0.0	0.0	0.0	1.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	1.0	10.0	2.3	11.7	4.7	15.0	2.7	12.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	87		90		78	
Shrub cover	40		23		38	
Grass/forb cover	50		72		52	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	50		100		67
High terrace	33		0		0	
Low terrace	17		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 (%)	42		39		22	

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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	2,235
Total conifers/1000 ft	488
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	3.3	29.0
15-30cm	4.0	1.3
30-50cm	0.7	4.7
50-90cm	0.0	1.7
>90cm	0.0	0.0

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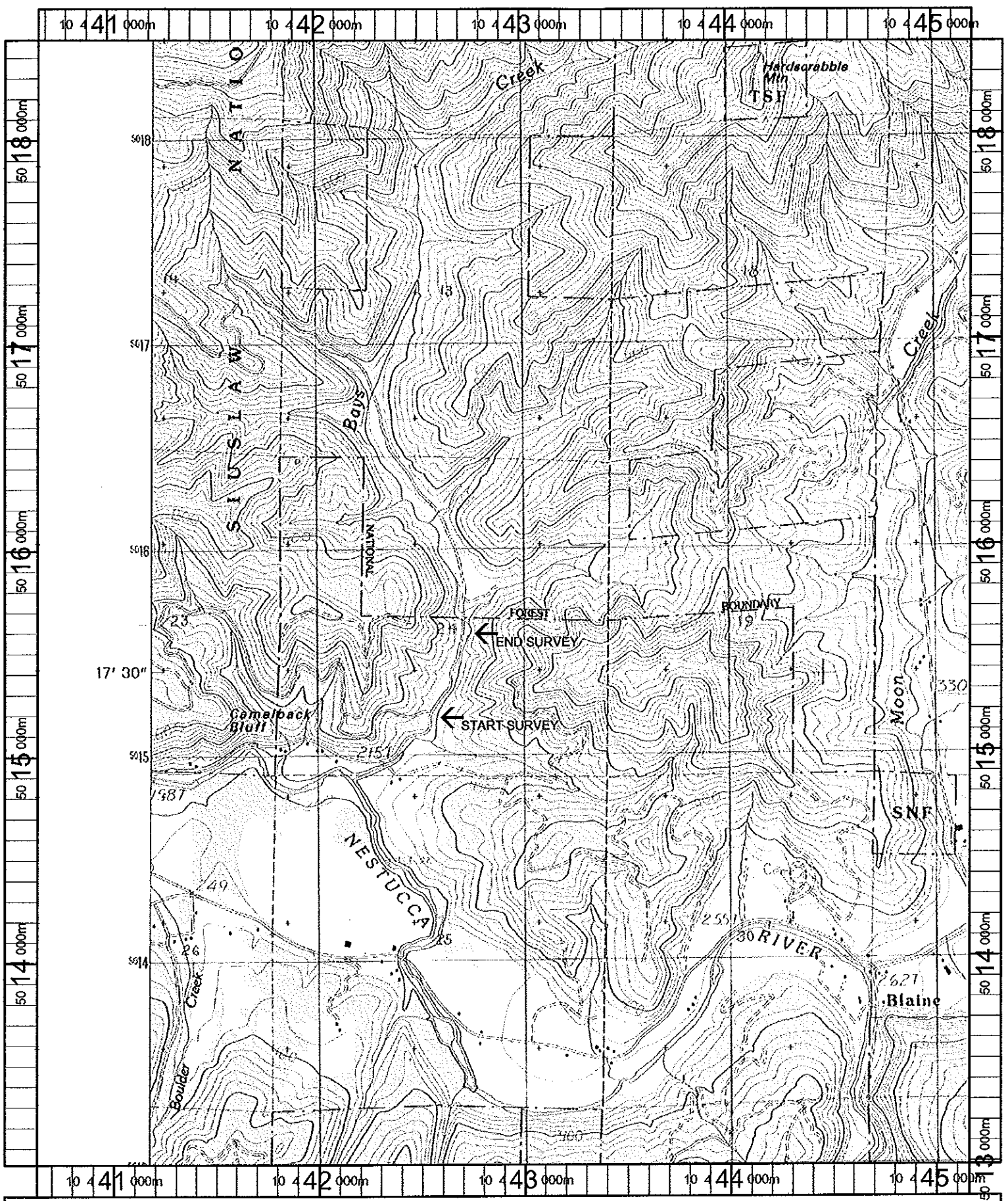
RIPARIAN ZONE VEGETATION

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	LT	22.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	20% ROAD SURFACE
7	LF	2	HS	60.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	ALDER
7	LF	3	RB	16.0	30	10	70	Conifer	0	0	0	0	0	
								Hardwood	1	0	4	0	0	ALDER
7	RT	1	HS	75.0	100	70	30	Conifer	0	0	0	0	0	
								Hardwood	8	1	0	0	0	
7	RT	2	HS	50.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	13	2	3	1	0	ALDER, VINE MAPLE
7	RT	3	HS	22.0	80	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	
14	LF	1	HS	16.0	80	30	70	Conifer	0	3	0	0	0	
								Hardwood	1	0	0	0	0	
14	LF	2	HS	9.0	80	10	80	Conifer	0	2	1	0	0	
								Hardwood	0	0	2	0	0	10% DIRT
14	LF	3	HS	3.0	70	10	90	Conifer	2	2	1	0	0	
								Hardwood	0	0	0	0	0	
14	RT	1	HS	120.0	95	10	30	Conifer	0	0	0	0	0	
								Hardwood	15	0	1	3	0	MAPLES, 60% BARE GR
14	RT	2	HS	32.0	95	10	80	Conifer	3	0	0	0	0	
								Hardwood	3	0	0	0	0	
14	RT	3	HS	27.0	100	80	10	Conifer	3	1	0	0	0	
								Hardwood	38	0	0	0	0	10% DIRT
20	LF	1	HT	2.0	95	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
20	LF	2	HS	44.0	95	70	30	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	1	0	
20	LF	3	RB	29.0	95	30	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	RT	1	HT	17.0	60	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	RT	2	HS	38.0	90	10	80	Conifer	1	0	0	0	0	
								Hardwood	2	1	0	0	0	
20	RT	3	HS	32.0	95	30	70	Conifer	1	4	0	0	0	
								Hardwood	0	0	0	0	0	



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

Location: 10 442813 E 5015719 N  
 Caption: BAYS CREEK RESTORATION SITE - NESTUCCA BASIN