

REACH SUMMARY

REACH 1

T14S-R2E-S10NW

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: 3.8 range: 2.6-5.5

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	496	3,935	0
Secondary	129	354	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	7.2	Width	9.6	15.9	16.2
Depth	0.38	Height	0.7	1.3	1.5
		W:D ratio	14.2	Entrenchment	1.7

Stream Flow Type: MF Water Temp: 3.5-3.5°C
Avg. Unit Gradient: 4.2% Habitat Units/100m: 4.6

Riparian, Bank, and Wood Summary

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

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 ($\geq 3m \times 0.15m$)	42	8.5
Volume (m ³)	79	15.8
Key pieces ($\geq 10m \times 0.6m$)	4	0.8

HABITAT UNIT SUMMARY

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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	4	60	6.6	0.31	467	0	8	18	6	23	46	0
GLIDE	3	51	8.6	0.37	426	0	0	8	10	37	45	0
POOL-LATERAL SCOUR	3	45	7.5	0.93	352	0	0	7	20	25	47	2
POOL-STRAIGHT SCOUR	1	16	6.4	0.80	99	0	0	10	10	60	20	0
PUDDLED CHANNEL	1	114	3.0	0.05	341	0	2	8	30	30	30	0
RAPID/BOULDERS	8	172	5.9	0.30	1,071	0	6	9	8	24	53	0
RIFFLE	1	11	9.4	0.35	101	0	0	5	5	30	60	0
RIFFLE W/ POCKETS	7	155	8.9	0.29	1,417	0	0	6	14	36	44	1
STEP/BEDROCK	1	3	6.2	0.20	16	0	0	0	5	5	20	70
Total:	29	625	7.2	0.38	4,290	0	Avg: 3	9	11	29	46	3

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	4	61	7.3	0.90	451	10.52	0	0.0
Glides	3	51	8.6	0.37	426	9.93	0	0.0
Riffles	8	165	9.0	0.30	1,517	35.37	0	0.0
Rapids	8	172	5.9	0.30	1,071	24.96	0	0.0
Cascades	4	60	6.6	0.31	467	10.89	0	0.0
Step/Falls	1	3	6.2	0.20	16	0.36	0	0.0
Dry	1	114	3.0	0.05	341	7.96	0	0.0

POOL SUMMARY

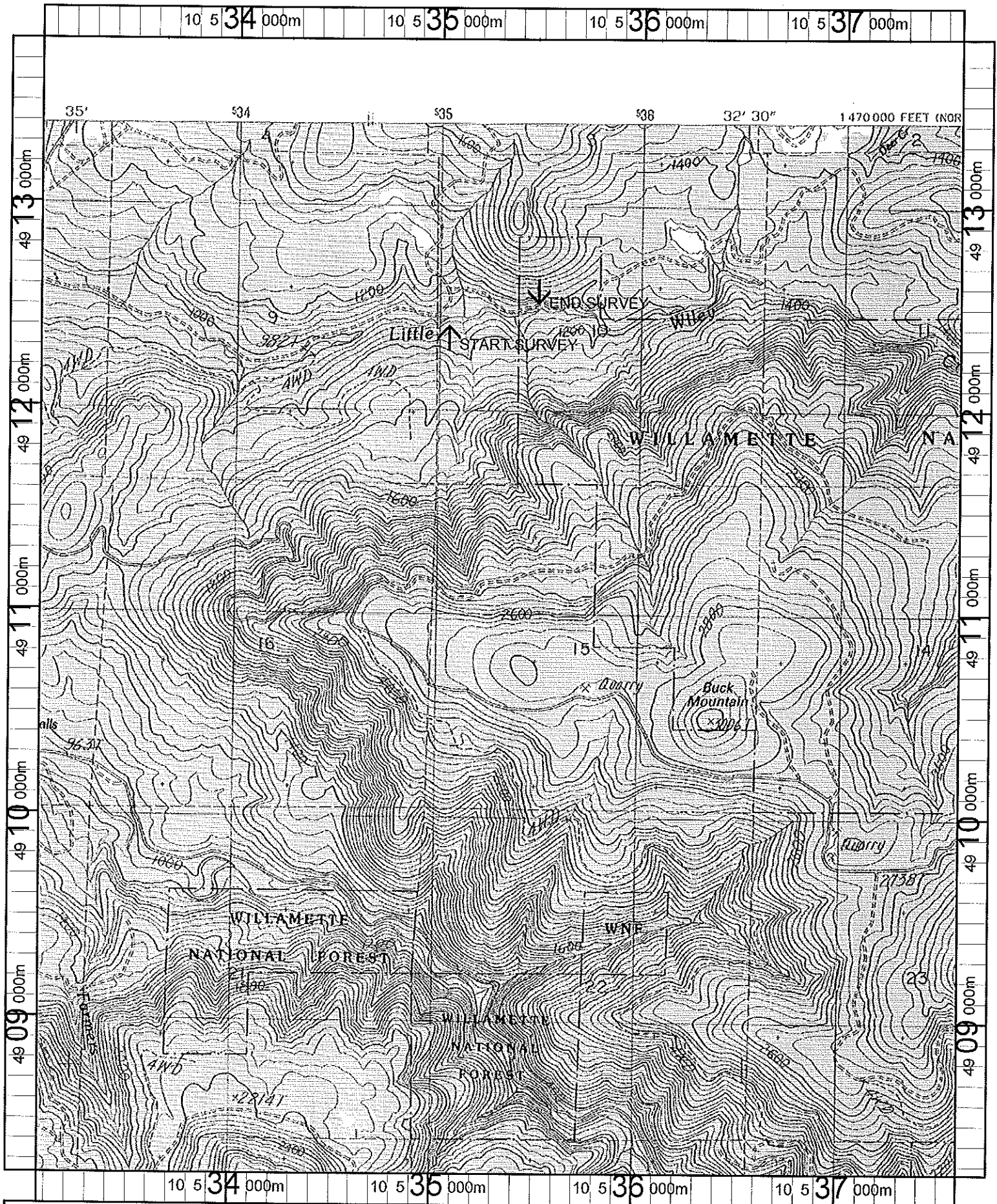
	<u>Total</u>	<u>#/Km</u>
All Pools	4	6.4
Pools ≥1m deep:	2	3.2
Complex pools (LWD pieces ≥3):	1	1.6
Pool Frequency (channel widths/pool):	16.3	
Residual pool depth (avg)	0.46m	

STREAM SUMMARY

LITTLE WILEY 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
29	625	7.2	0.38	4,290	3	9	11	29	46	3	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	451	10.5
Backwater Pools	0	0.0
Glide	426	9.9
Riffle	1,517	35.4
Rapid	1,071	25.0
Cascade	467	10.9
Step	16	0.4
Dry	341	8.0



<p>Name: FARMERS BUTTE Date: 5/30/101 Scale: 1 inch equals 2000 feet</p>	<p>Location: 10 535221 E 4911013 N Caption: LITTLE WILYE CREEK RESTORATION SITE - S. SANTIAM BASIN</p>
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