

REACH 1 T11S-R9W-14 138W 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: 8.8 range: 6.0-12.0

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	364	1,509	0
Secondary	19	25	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>	
Width	3.8	Width	6.1		8.4		15.0
Depth	0.32	Height	0.4		0.9		1.2
		W:D ratio	14.4	Entrenchment	1.4		

Stream Flow Type: MF Water Temp: 13.5-13.5°C
 Avg. Unit Gradient: 1.9% Habitat Units/100m: 8.9

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	1%	Reach avg: 94%
Undercut Banks	8%	Range: 61-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	33	9.1
Volume (m ³)	13	3.6
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 ²)	Large Boulders (>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
CASCADE/BEDROCK	1	24	3.5	0.20	82	0	0	0	0	0	0	100
POOL-BACKWATER	3	12	1.8	0.17	18	0	87	13	0	0	0	0
POOL-LATERAL SCOUR	16	227	4.7	0.49	1,065	11	34	27	3	3	0	32
POOL-TRENCH	1	5	0.8	1.40	4	0	0	0	0	0	0	100
RAPID/BOULDERS	1	7	1.1	0.01	7	0	0	33	33	33	0	0
RIFFLE	8	96	3.2	0.09	291	4	1	9	37	23	1	30
STEP/BEDROCK	2	8	4.9	0.04	41	0	0	0	11	8	0	82
STEP/COBBLE	2	5	4.8	0.04	25	0	0	5	61	34	0	0
Total:	34	383	3.8	0.32	1,534	15	Avg:24	17	15	10	0	33

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	3	12	1.8	0.17	18	1.16	0	0.0
Scour Pools	17	232	4.4	0.54	1,069	69.69	11	1.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	8	96	3.2	0.09	291	18.98	4	1.4
Rapids	1	7	1.1	0.01	7	0.47	0	0.0
Cascades	1	24	3.5	0.20	82	5.36	0	0.0
Step/Falls	4	13	4.8	0.04	67	4.34	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	20	52.2
Pools ≥1m deep:	2	5.2
Complex pools (LWD pieces ≥3):	2	5.2
Pool Frequency (channel widths/pool):	3.2	
Residual pool depth (avg)	0.43m	

STREAM SUMMARY

SALMON CREEK (PRE SUM 99)

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	
34	383	3.8	0.32	1,534	24	17	15	10	0	33	15

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,069	69.7
Backwater Pools	18	1.2
Glide	0	0.0
Riffle	291	19.0
Rapid	7	0.5
Cascade	82	5.4
Step	67	4.3
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (2 transects)

Total hardwoods/1000 ft	1,585
Total conifers/1000 ft	305
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	0.5	3.0	0.5	4.0	1.0	11.5	2.0	18.5
15-30cm	0.5	2.0	1.0	2.5	0.5	1.5	2.0	6.0
30-50cm	0.5	1.0	0.5	0.5	0.0	0.0	1.0	1.5
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.5	6.0	2.0	7.0	1.5	13.0	1.7	8.7

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	70		93		75	
Shrub cover	38		40		23	
Grass/forb cover	40		38		50	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	25		50		50
High terrace	50		50		25	
Low terrace	25		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		25	
Riprap	0		0		0	
Surface slope (%)	14		34		29	

Summary of Riparian Zone (0-30m) for all reaches (2 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	1,585
Total conifers/1000 ft	305
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	2.0	18.5
15-30cm	2.0	6.0
30-50cm	1.0	1.5
50-90cm	0.0	0.0
>90cm	0.0	0.0

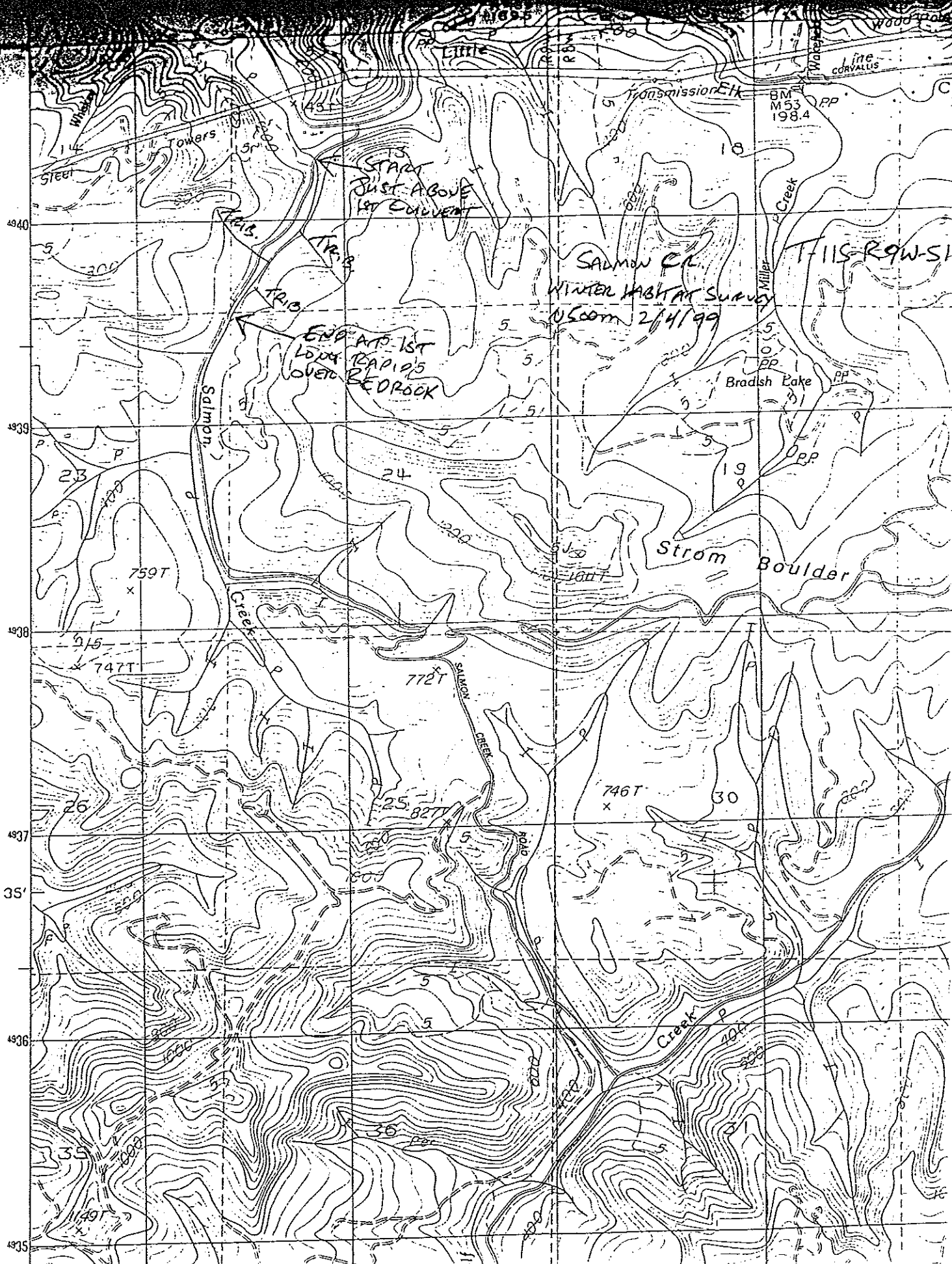
RIPARIAN ZONE VEGETATION

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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	
15	LF	1	HT	5.0	95	20	80	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
15	LF	2	HS	55.0	95	40	60	Conifer	1	0	0	0	0	
								Hardwood	4	0	0	0	0	
15	LF	3	HS	60.0	95	30	50	Conifer	0	0	0	0	0	
								Hardwood	3	3	0	0	0	20% DIRT
15	RT	1	LT	0.0	5	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
15	RT	2	HT	0.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	
15	RT	3	RB	0.0	90	20	30	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	GRAVEL ROADBED 50%
25	LF	1	HS	50.0	80	60	40	Conifer	0	0	0	0	0	
								Hardwood	3	2	2	0	0	ALDER
25	LF	2	HS	80.0	95	40	60	Conifer	0	0	0	0	0	
								Hardwood	3	2	0	0	0	
25	LF	3	HS	55.0	20	40	60	Conifer	2	0	0	0	0	
								Hardwood	3	0	0	0	0	TREE FARM
25	RT	1	HT	0.0	100	0	10	Conifer	1	1	1	0	0	
								Hardwood	0	0	0	0	0	90% DEBRIS, NEEDLES
25	RT	2	HT	0.0	100	0	10	Conifer	0	2	1	0	0	
								Hardwood	1	2	0	0	0	90% NEEDLES, DEBRIS
25	RT	3	HT	0.0	95	0	60	Conifer	0	1	0	0	0	
								Hardwood	14	0	0	0	0	40% NEEDLES, DEBRIS



START
JUST ABOVE
1st CONDUIT

END AT 1st
RAPIDS
OVER
BEDROCK

SALMON CR.
WINTER HABITAT SURVEY
USCOM 2/4/99

THIS ROW IS

4940

4939

4938

4937

4936

4935

35'

36'

