

REACH 1

T11S-R9W-S13SW

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: 5.5 range: 5.0-6.0

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	375	2,135	0
Secondary	4	7	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.5	Width	5.9	9.5	11.2
Depth	0.39	Height	0.5	0.9	1.2
		W:D ratio	13.2	Entrenchment	1.6

Stream Flow Type: MF Water Temp: 0.0-0.0°C
Avg. Unit Gradient: 1.6% Habitat Units/100m: 5.8

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	3%	Reach avg: 88%
Undercut Banks	9%	Range: 72- 94

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	46	12.3
Volume (m ³)	109	29.1
Key pieces ($\geq 10m \times 0.6m$)	9	2.4

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/BEDROCK	1	28	5.1	0.20	144	0	0	0	0	0	0	100
POOL-BACKWATER	1	2	2.0	0.30	3	0	90	5	5	0	0	0
POOL-ISOLATED	1	2	2.0	0.40	4	0	70	30	0	0	0	0
POOL-LATERAL SCOUR	10	194	6.8	0.67	1,313	3	9	53	9	4	4	21
RIFFLE	7	143	4.6	0.12	622	12	0	11	52	19	0	18
STEP/BEDROCK	1	5	5.3	0.10	24	0	0	0	0	0	0	100
STEP/COBBLE	1	6	5.6	0.10	31	0	0	11	67	11	0	11
Total:	22	378	5.5	0.39	2,142	15	Avg:11	30	24	8	2	25

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	2	4	2.0	0.35	7	0.33	0	0.0
Scour Pools	10	194	6.8	0.67	1,313	61.32	3	0.2
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	7	143	4.6	0.12	622	29.03	12	1.9
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	1	28	5.1	0.20	144	6.71	0	0.0
Step/Falls	2	10	5.5	0.10	56	2.61	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	12	31.7
Pools ≥1m deep:	1	2.6
Complex pools (LWD pieces ≥3):	5	13.2
Pool Frequency (channel widths/pool):	5.4	
Residual pool depth (avg)	0.50m	

STREAM SUMMARY

SALMON CREEK (POST-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	
22	378	5.5	0.39	2,142	11	30	24	8	2	25	15

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,313	61.3
Backwater Pools	7	0.3
Glide	0	0.0
Riffle	622	29.0
Rapid	0	0.0
Cascade	144	6.7
Step	56	2.6
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	996
Total conifers/1000 ft	264
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	2.7	1.0	2.7	2.0	2.7	3.0	8.0
15-30cm	1.0	2.7	0.0	0.3	0.0	0.7	1.0	3.7
30-50cm	0.0	2.0	0.3	2.0	0.0	0.3	0.3	4.3
50-90cm	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.0	7.3	1.3	5.0	2.0	4.0	1.4	5.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	78		79		54	
Shrub cover	52		42		55	
Grass/forb cover	38		50		35	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		50		50
High terrace	67		50		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	29		29		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	996
Total conifers/1000 ft	264
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	3.0	8.0
15-30cm	1.0	3.7
30-50cm	0.3	4.3
50-90cm	0.0	0.3
>90cm	0.0	0.0

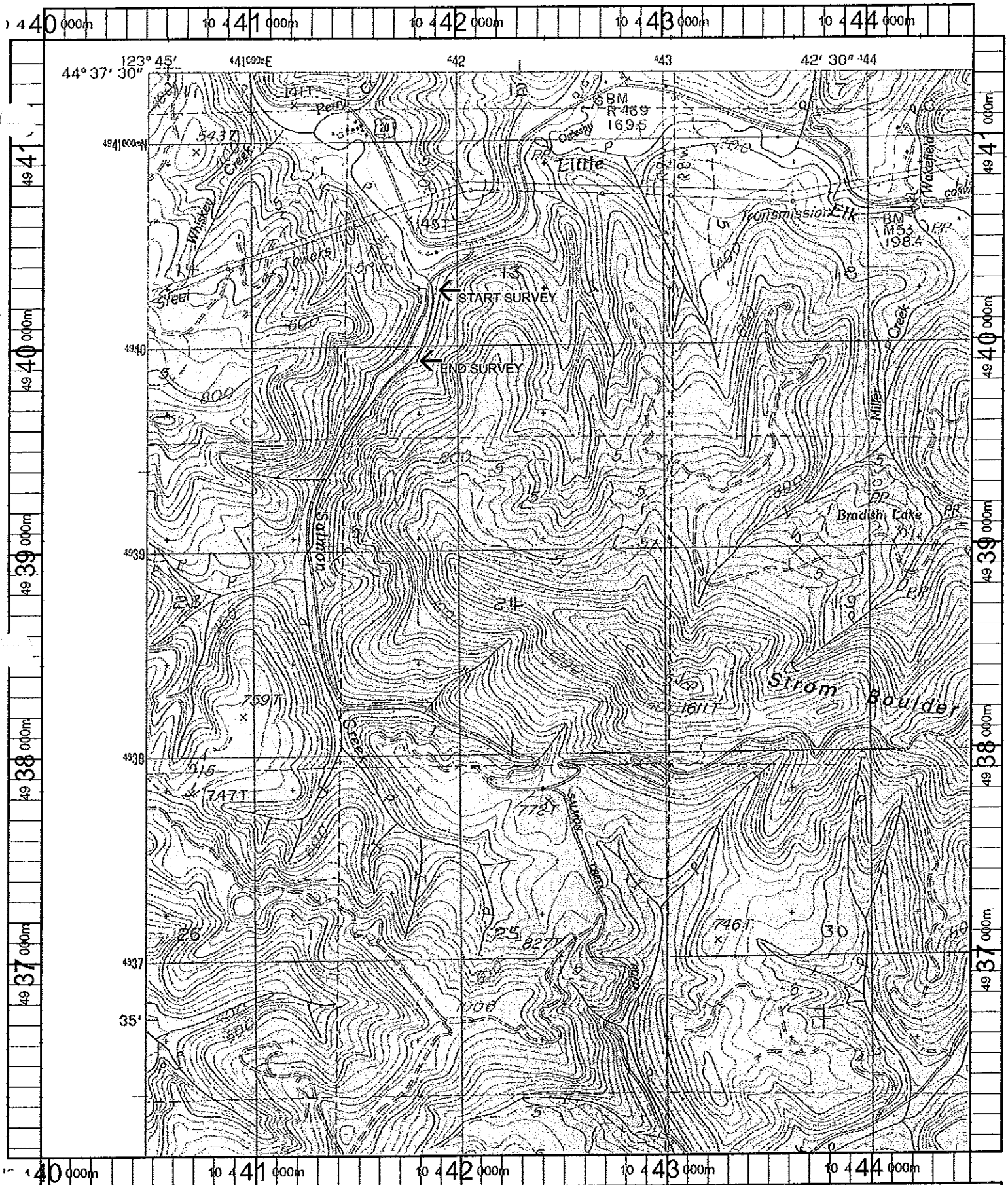
RIPARIAN ZONE VEGETATION

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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	
9	LF	1	HT	0.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	3	1	2	0	0	ALDERS
9	LF	2	HS	55.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	3	0	2	0	0	
9	LF	3	HS	65.0	70	80	20	Conifer	3	0	0	0	0	
								Hardwood	5	0	0	0	0	
9	RT	1	HT	0.0	60	85	15	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	ALDER
9	RT	2	HT	0.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	
9	RT	3	HT	0.0	90	20	40	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	ROADBED
17	LF	1	HS	135.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	
17	LF	2	HS	100.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	3	0	2	0	0	
17	LF	3	HS	80.0	10	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	YOUNG TREE
17	RT	1	HT	0.0	55	85	15	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	SPRUCE
17	RT	2	HT	0.0	65	60	40	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	0	0	SPRUCE
17	RT	3	HT	0.0	90	10	70	Conifer	3	0	0	0	0	
								Hardwood	0	0	1	1	0	
22	LF	1	HS	40.0	80	30	70	Conifer	0	0	0	0	0	
								Hardwood	0	1	2	0	0	ALDER
22	LF	2	HS	20.0	90	30	70	Conifer	1	0	0	0	0	
								Hardwood	1	0	2	0	0	ALDER
22	LF	3	HS	20.0	60	90	10	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
22	RT	1	HT	0.0	95	10	30	Conifer	0	2	0	0	0	
								Hardwood	0	5	2	0	0	
22	RT	2	HT	0.0	50	0	50	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	50% ROADBED
22	RT	3	HT	0.0	5	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	DEAD SHRUBS--HERBIC



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

Location: 10 442139 E 4938750 N
 Caption: SALMON CREEK RESTORATION SITE - YAQUINA BASIN