

REACH SUMMARY

REACH 0

T5N-R8W-S18SW

REACH 0

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: 4.8 range: 3.0-6.0

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	372	1,341	0
Secondary	43	101	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.5	Width	7.9	15.1	17.8
Depth	0.30	Height	0.4	0.8	1.3
		W:D ratio	19.8	Entrenchment	1.8

Stream Flow Type: LF Water Temp: 11.0-11.0°C
Avg. Unit Gradient: 1.4% Habitat Units/100m: 8.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	M15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	7%	Reach avg: 82%
Undercut Banks	10%	Range: 50- 89

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	101	27.2
Volume (m ³)	146	39.2

Key pieces ($\geq 10\text{m} \times 0.6\text{m}$)

5

1.3

HABITAT UNIT SUMMARY

REACH 0

T5N-R8W-S18SW

REACH 0

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
GLIDE	1	11	2.9	0.30	32	0	10	30	40	20	0	0
POOL-BACKWATER	2	6	2.5	0.40	15	0	16	24	40	15	5	0
POOL-ISOLATED	1	5	2.5	0.30	11	0	5	25	25	25	20	0
POOL-LATERAL SCOUR	5	46	3.3	0.48	145	0	5	17	44	20	6	7
POOL-PLUNGE	1	3	4.0	0.70	10	0	10	15	25	50	0	0
POOL-STRAIGHT SCOUR	6	54	4.4	0.50	245	0	12	17	44	23	5	0
RAPID/BOULDERS	1	18	3.0	0.20	53	0	5	10	25	30	30	0
RIFFLE	15	272	3.3	0.16	923	1	4	14	41	32	9	0
STEP/LOG	2	2	5.0	0.10	9	0	8	25	40	25	3	0
Total:	34	414	3.5	0.30	1,443	1	Avg: 7	17	41	27	7	1

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	10	2.5	0.37	26	1.79	0	0.0
Scour Pools	12	102	3.9	0.51	400	27.69	0	0.0
Glides	1	11	2.9	0.30	32	2.21	0	0.0
Riffles	15	272	3.3	0.16	923	64.00	1	0.1
Rapids	1	18	3.0	0.20	53	3.68	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	2	2	5.0	0.10	9	0.62	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	15	36.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	6	14.5
Pool Frequency (channel widths/pool):	3.5	
Residual pool depth (avg)	0.41m	

STREAM SUMMARY

U. NECANICUM RIVER (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	
34	414	3.5	0.30	1,443	7	17	41	27	7	1	1

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	400	27.7
Backwater Pools	26	1.8
Glide	32	2.2
Riffle	923	64.0
Rapid	53	3.7
Cascade	0	0.0
Step	9	0.6
Dry	0	0.0

REACH 0 RIPARIAN ZONE VEGETATION SUMMARY REACH 0

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

Total hardwoods/1000 ft	752
Total conifers/1000 ft	467
Total conifers >20" dbh/1000 ft	20
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	0.3	2.3	0.3	0.0	0.3	0.7	1.0	3.0
15-30cm	1.3	5.3	0.3	2.0	3.0	1.7	4.7	9.0
30-50cm	0.3	0.0	1.0	0.3	0.3	0.0	1.7	0.3
50-90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	2.0	7.7	2.0	2.3	3.7	2.3	2.6	4.1

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	(%)	(%)	(%)
Canopy closure	58	64	59
Shrub cover	40	20	27
Grass/forb cover	57	71	56

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	Hillslope	0	50
High terrace	83	50	17
Low terrace	17	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 (%)	2	10	20

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	752
Total conifers/1000 ft	467
Total conifers >20" dbh/1000 ft	20

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zones 1-3	
	Conifer	Hardwood
3-15cm	1.0	3.0
15-30cm	4.7	9.0
30-50cm	1.7	0.3
50-90cm	0.3	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 0

Reach 0

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	HT	1.0	70	60	40	Conifer	0	0	0	0	0	
								Hardwood	2	4	0	0	0	
7	LF	2	HT	0.0	65	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
7	LF	3	HS	12.0	75	20	50	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
7	RT	1	LT	0.0	30	10	70	Conifer	0	0	0	0	0	
								Hardwood	2	3	0	0	0	
7	RT	2	HT	5.0	40	0	75	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	
7	RT	3	HT	0.0	40	0	75	Conifer	0	0	0	0	0	
								Hardwood	2	3	0	0	0	
24	LF	1	HT	1.0	70	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	3	0	0	0	
24	LF	2	HS	35.0	85	10	90	Conifer	0	0	0	1	0	
								Hardwood	0	1	1	0	0	
24	LF	3	HS	38.0	75	50	50	Conifer	0	3	0	0	0	
								Hardwood	0	0	0	0	0	
24	RT	1	HT	6.0	55	60	40	Conifer	0	0	0	0	0	
								Hardwood	2	3	0	0	0	
24	RT	2	HT	4.0	60	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
24	RT	3	HS	25.0	75	0	60	Conifer	1	3	0	0	0	
								Hardwood	0	0	0	0	0	
32	LF	1	HT	2.0	60	40	60	Conifer	0	4	1	0	0	
								Hardwood	0	0	0	0	0	
32	LF	2	HS	6.0	65	30	40	Conifer	1	1	1	0	0	
								Hardwood	0	0	0	0	0	
32	LF	3	HS	21.0	20	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
32	RT	1	HT	4.0	65	50	50	Conifer	1	0	0	0	0	
								Hardwood	0	3	0	0	0	
32	RT	2	HS	11.0	70	30	70	Conifer	0	0	2	0	0	
								Hardwood	0	0	0	0	0	
32	RT	3	HS	21.0	70	10	80	Conifer	0	3	0	0	0	
								Hardwood	0	2	0	0	0	



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

Location: 10 444450 E 5084719 N
Caption: UPPER NECANICUM RIVER RESTORATION SITE - NECANICUM BASIN