

REACH SUMMARY

REACH 1

T5N-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	0
Moderate V-shape	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 8.2 range: 5.0-10.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	100
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	495	2,593	0
Secondary	241	507	3

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.0	Width	7.0	15.4	11.6
Depth	0.36	Height	0.5	1.0	0.8
		W:D ratio	13.6	Entrenchment	2.2

Stream Flow Type: HF Water Temp: 6.5-6.5°C
Avg. Unit Gradient: 1.4% Habitat Units/100m: 6.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	M30	D15

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 (≥3m x 0.15m)	70	14.1
Volume (m ³)	206	41.6
Key pieces (≥10m x 0.6m)	10	2.0

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	1	11	0.5	0.05	6	0	10	70	20	0	0	0
DRY CHANNEL	1	54	4.5	0.00	241	0	20	60	20	0	0	0
POOL-ALCOVE	1	16	1.2	0.05	20	0	20	80	0	0	0	0
POOL-BACKWATER	2	10	2.4	0.40	27	0	27	45	25	4	0	0
POOL-LATERAL SCOUR	18	181	4.8	0.59	891	0	13	27	38	22	0	0
POOL-PLUNGE	1	5	4.3	1.00	20	0	10	20	40	30	0	0
PUDDLED CHANNEL	2	51	1.0	0.15	49	0	30	53	18	0	0	0
RAPID/BOULDERS	3	35	3.7	0.22	123	0	0	10	35	53	2	0
RIFFLE	20	374	4.1	0.23	1,722	0	9	21	37	33	0	0
STEP/LOG	1	0	3.7	0.15	1	0	0	10	50	40	0	0
Total:	50	737	4.0	0.36	3,100	0	Avg:11	27	35	26	0	0

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	26	2.0	0.28	46	1.49	0	0.0
Scour Pools	19	186	4.8	0.62	911	29.40	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	20	374	4.1	0.23	1,722	55.56	0	0.0
Rapids	3	35	3.7	0.22	123	3.97	0	0.0
Cascades	1	11	0.5	0.05	6	0.18	0	0.0
Step/Falls	1	0	3.7	0.15	1	0.04	0	0.0
Dry	3	105	2.2	0.10	290	9.36	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	22	29.9
Pools ≥1m deep:	2	2.7
Complex pools (LWD pieces ≥3):	5	6.8
Pool Frequency (channel widths/pool):	4.8	
Residual pool depth (avg)	0.41m	

STREAM SUMMARY

GRINDY 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	
50	737	4.0	0.36	3,100	11	27	35	26	0	0	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	911	29.4
Backwater Pools	46	1.5
Glide	0	0.0
Riffle	1,722	55.6
Rapid	123	4.0
Cascade	6	0.2
Step	1	**.*
Dry	290	9.4



Name: SADDLE MT	Location: 10 443707 E 5084312 N
Date: 10/23/100	Caption: GRINDY CREEK RESTORATION SITE - NECANICUM BASIN
Scale: 1 inch equals 2000 feet	