

REACH 1

T05N-R09W-S16NW

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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: 8.0 range: 5.0-10.0

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	644	2,755	0
Secondary	47	90	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.7	Width	7.4	10.8	15.9
Depth	0.32	Height	0.6	1.2	1.5
		W:D ratio	12.6	Entrenchment	1.4

Stream Flow Type: LF Water Temp: 13.0-13.0°C  
 Avg. Unit Gradient: 2.9% Habitat Units/100m: 7.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	
Riparian Vegetation:	M3	M30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	45%	Reach avg: 85%
Undercut Banks	16%	Range: 64- 94

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	148	23.0
Volume (m <sup>3</sup> )	212	32.9
Key pieces ( $\geq 10m \times 0.6m$ )	11	1.7

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
POOL-ISOLATED	4	24	2.0	0.26	50	0	83	18	0	0	0	0
POOL-LATERAL SCOUR	13	123	3.7	0.52	460	0	19	20	12	43	6	0
POOL-STRAIGHT SCOUR	4	34	3.4	0.48	121	0	23	25	13	34	6	0
RAPID/BOULDERS	16	334	3.9	0.22	1,368	2	12	15	14	46	12	0
RIFFLE	5	102	3.9	0.21	403	0	12	12	14	52	10	0
RIFFLE W/ POCKETS	2	59	6.3	0.38	386	0	15	20	15	45	5	0
STEP/COBBLE	5	14	3.8	0.11	58	0	12	11	11	53	13	0
<b>Total:</b>	<b>49</b>	<b>690</b>	<b>3.7</b>	<b>0.32</b>	<b>2,845</b>	<b>2</b>	<b>Avg:21</b>	<b>17</b>	<b>12</b>	<b>42</b>	<b>9</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	4	24	2.0	0.26	50	1.76	0	0.0
Scour Pools	17	158	3.6	0.51	581	20.42	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	7	161	4.6	0.26	789	27.71	0	0.0
Rapids	16	334	3.9	0.22	1,368	48.06	2	0.1
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	14	3.8	0.11	58	2.04	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	21	30.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces≥3):	4	5.8
Pool Frequency (channel widths/pool):	4.5	
Residual pool depth (avg)	0.34m	

STREAM SUMMARY

NF NECANICUM (SUM POST 1999)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area					Total Large Boulder	
					S/O	Sand	Grvl	Cbbl	Bldr		Bdrk
49	690	3.7	0.32	2,845	21	17	12	42	9	0	2

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	581	20.4
Backwater Pools	50	1.8
Glide	0	0.0
Riffle	789	27.7
Rapid	1,368	48.1
Cascade	0	0.0
Step	58	2.0
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	640
Total conifers/1000 ft	823
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	2.5	0.5	1.0	2.5	2.5	2.5	6.0	5.5
15-30cm	1.0	1.5	1.5	0.0	2.5	2.5	5.0	4.0
30-50cm	1.5	0.0	0.0	0.5	1.0	0.5	2.5	1.0
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 <sup>2</sup>	5.0	2.0	2.5	3.0	6.0	5.5	4.5	3.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	64		29		68	
Shrub cover	16		4		19	
Grass/forb cover	65		40		61	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		0		0
High terrace	100		50		100	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		50		0	
Riprap	0		0		0	
Surface slope (%)	3		4		7	

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	640
Total conifers/1000 ft	823
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	6.0	5.5
15-30cm	5.0	4.0
30-50cm	2.5	1.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

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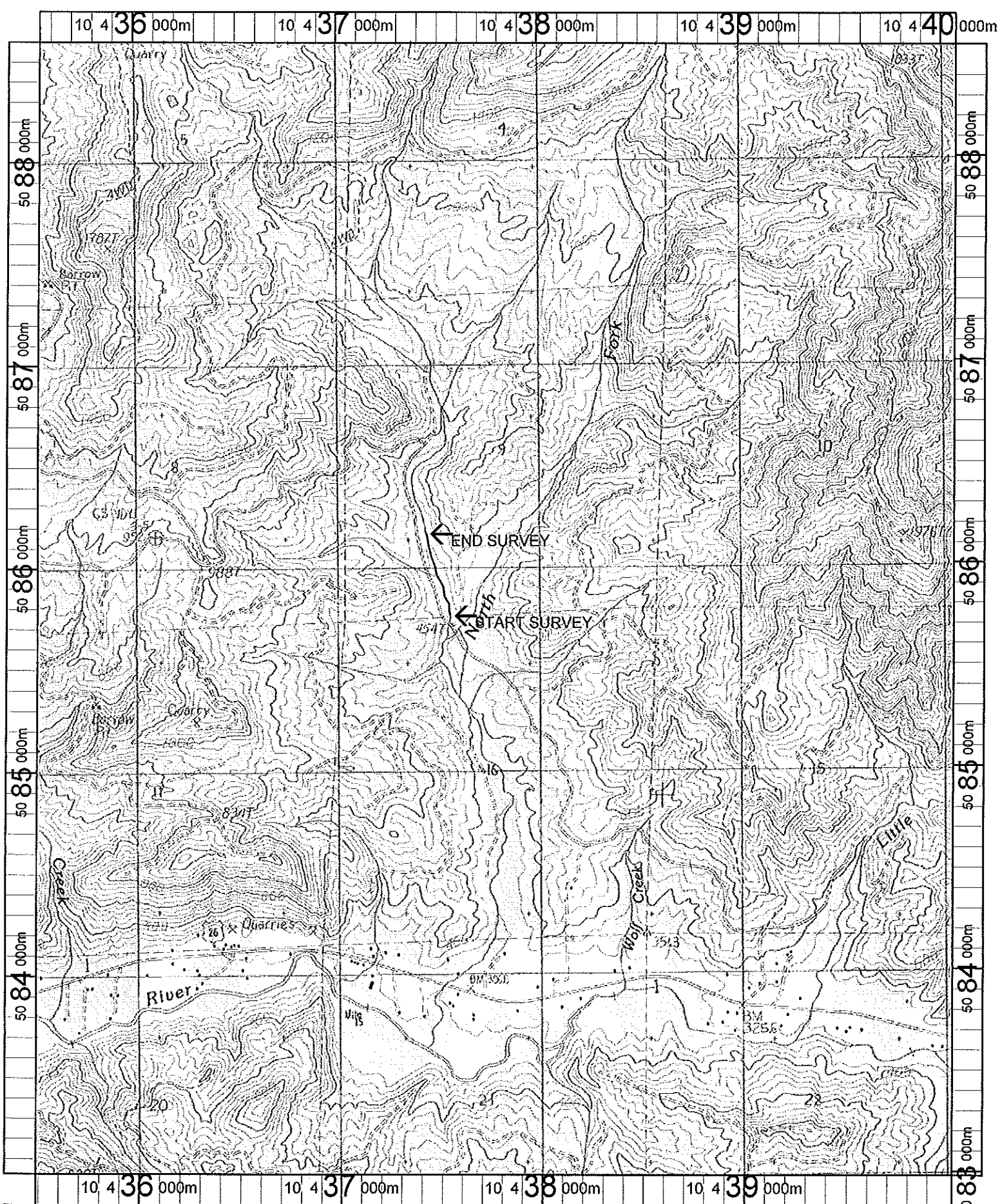
RIPARIAN ZONE VEGETATION

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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	
3	LF	1	HT	-2.0	60	30	60	Conifer	2	0	0	0	0	
								Hardwood	1	2	0	0	0	
3	LF	2	RB	2.0	0	0	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
3	LF	3	HT	6.0	60	40	40	Conifer	1	0	1	0	0	
								Hardwood	0	2	1	0	0	
3	RT	1	HT	4.0	85	15	60	Conifer	2	0	3	0	0	
								Hardwood	0	0	0	0	0	
3	RT	2	HT	8.0	85	5	60	Conifer	2	1	0	0	0	
								Hardwood	4	0	0	0	0	
3	RT	3	HT	10.0	90	5	75	Conifer	3	1	0	0	0	
								Hardwood	3	0	0	0	0	
22	LF	1	HT	3.0	60	10	70	Conifer	1	2	0	0	0	
								Hardwood	0	0	0	0	0	
22	LF	2	RB	3.0	0	0	10	Conifer	0	2	0	0	0	
								Hardwood	1	0	0	0	0	
22	LF	3	HT	6.0	70	20	60	Conifer	0	1	1	0	0	
								Hardwood	0	2	0	0	0	
22	RT	1	HT	3.0	50	10	70	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
22	RT	2	HT	3.0	30	10	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
22	RT	3	HT	5.0	50	10	70	Conifer	1	3	0	0	0	
								Hardwood	2	1	0	0	0	



Name: NECANICUM JUNCTION  
 Date: 4/24/100  
 Scale: 1 inch equals 2000 feet

Location: 10 437687 E 5085771 N  
 Caption: N FK NECANICUM TRIB A  
 RESTORATION SITE  
 ODFW 1999