

REACH 1

T6N-R5W-S8NE

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

Valley Width Index avg: 5.7 range: 4.0-7.0

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	706	3,524	0
Secondary	27	82	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.6	Width	9.3	14.5	17.5
Depth	0.44	Height	0.6	1.2	1.5
		W:D ratio	15.4	Entrenchment	1.5

Stream Flow Type: LF Water Temp: 18.0-18.0°C
 Avg. Unit Gradient: 1.0% Habitat Units/100m: 4.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	D30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	73%	Reach avg: 72%
Undercut Banks	30%	Range: 33- 89

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	180	25.5
Volume (m ³)	487	69.0
Key pieces ($\geq 10m \times 0.6m$)	36	5.1

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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
GLIDE	2	52	5.2	0.43	266	0	8	39	14	0	0	39
POOL-BACKWATER	2	23	3.0	0.40	68	0	40	40	15	5	0	0
POOL-BEAVER DAM	1	41	10.3	0.85	425	0	50	30	0	0	0	20
POOL-LATERAL SCOUR	10	227	4.5	0.66	1,049	0	35	36	16	8	0	5
POOL-STRAIGHT SCOUR	6	79	6.3	0.54	514	0	34	36	12	7	0	12
RIFFLE	11	245	3.6	0.21	1,040	0	13	26	27	10	0	24
RIFFLE W/ POCKETS	3	66	3.6	0.42	238	0	27	35	27	12	0	0
STEP/BEAVER DAM	1	1	7.4	0.05	7	0	50	50	0	0	0	0
Total:	36	734	4.6	0.44	3,607	0	Avg:27	33	18	8	0	13

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	3	64	5.4	0.55	493	13.67	0	0.0
Scour Pools	16	306	5.2	0.61	1,562	43.32	0	0.0
Glides	2	52	5.2	0.43	266	7.37	0	0.0
Riffles	14	311	3.6	0.26	1,278	35.43	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	1	7.4	0.05	7	0.21	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	19	25.9
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	12	16.4
Pool Frequency (channel widths/pool):	4.2	
Residual pool depth (avg)	0.47m	

STREAM SUMMARY

BEAVER CK (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	
36	734	4.6	0.44	3,607	27	33	18	8	0	13	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,562	43.3
Backwater Pools	493	13.7
Glide	266	7.4
Riffle	1,278	35.4
Rapid	0	0.0
Cascade	0	0.0
Step	7	0.2
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (1 transects)

Total hardwoods/1000 ft	671
Total conifers/1000 ft	975
Total conifers >20" dbh/1000 ft	61
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	0.0	0.0	0.0	15.0	0.0	15.0	0.0
15-30cm	0.0	0.0	0.0	4.0	0.0	4.0	0.0	8.0
30-50cm	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0
50-90cm	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.0	3.0	1.0	4.0	15.0	4.0	5.3	3.7

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	(%)	(%)	(%)
Canopy closure	68	68	78
Shrub cover	90	80	55
Grass/forb cover	10	20	45

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	100	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 (%)	6	10	12

Summary of Riparian Zone (0-30m) for all reaches (1 transects)

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

Total hardwoods/1000 ft	671
Total conifers/1000 ft	975
Total conifers >20" dbh/1000 ft	61

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	15.0	0.0
15-30cm	0.0	8.0
30-50cm	0.0	3.0
50-90cm	1.0	0.0
>90cm	0.0	0.0

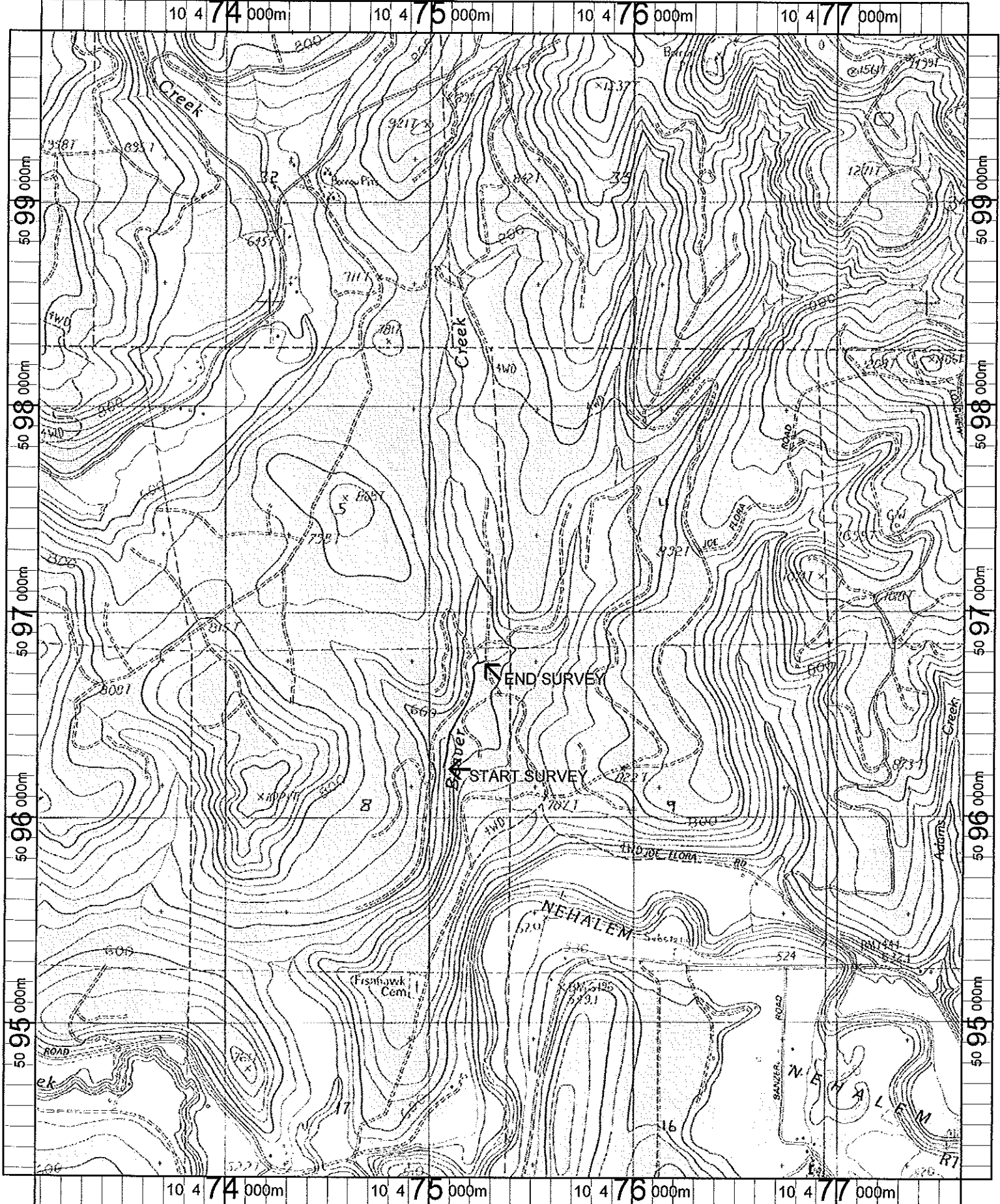
RIPARIAN ZONE VEGETATION

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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	
30	LF	1	HT	6.0	65	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	0	0	
30	LF	2	HS	12.0	55	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	
30	LF	3	HS	15.0	75	50	50	Conifer	15	0	0	0	0	
								Hardwood	0	0	0	0	0	ALDER
30	RT	1	HT	5.0	70	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	RT	2	HT	7.0	80	90	10	Conifer	0	0	0	1	0	
								Hardwood	0	1	0	0	0	
30	RT	3	HT	8.0	80	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	



Name: MARSHLAND
 Date: 4/25/100
 Scale: 1 inch equals 2000 feet

Location: 10 475256 E 5097013 N
 Caption: BEAVER CREEK
 RESTORATION SITE
 ODFW 1999