

REACH 1

T10S-R8W-S36W

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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: 8.5 range: 8.0-10.0

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	375	2,277	0
Secondary	14	18	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.5	Width	8.5	12.5	18.4
Depth	0.37	Height	0.5	1.0	1.8
		W:D ratio	17.1	Entrenchment	1.5

Stream Flow Type: MF Water Temp: 14.0-14.0°C
 Avg. Unit Gradient: 1.5% Habitat Units/100m: 5.4

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	2%	Reach avg: 85%
Undercut Banks	3%	Range: 56-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	66	17.6
Volume (m ³)	80	21.4
Key pieces ($\geq 10m \times 0.6m$)	5	1.3

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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
CULVERT CROSSING	1	19	3.3	0.50	63	5	50	20	0	0	30	0
GLIDE	1	34	5.6	0.40	193	1	18	6	6	0	0	71
POOL-BACKWATER	1	4	3.0	0.50	13	0	95	0	5	0	0	0
POOL-LATERAL SCOUR	9	192	7.4	0.59	1,447	0	28	24	12	4	0	31
RAPID/BOULDERS	2	30	2.6	0.10	98	0	8	10	61	21	0	0
RIFFLE	6	102	4.3	0.13	440	0	1	15	63	8	0	12
STEP/COBBLE	1	7	5.7	0.10	42	0	0	5	95	0	0	0
Total:	21	389	5.5	0.37	2,295	6	Avg:21	17	34	6	1	20

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders
					(m ²)	Percent	Number #/100m ²
Dammed & BW Pools	1	4	3.0	0.50	13	0.56	0
Scour Pools	9	192	7.4	0.59	1,447	63.05	0
Glides	1	34	5.6	0.40	193	8.39	1
Riffles	6	102	4.3	0.13	440	19.16	0
Rapids	2	30	2.6	0.10	98	4.25	0
Cascades	0	0	-	-	0	0.00	0
Step/Falls	1	7	5.7	0.10	42	1.84	0
Dry	0	0	-	-	0	0.00	0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	10	25.7
Pools $\geq 1m$ deep:	0	0.0
Complex pools (LWD pieces ≥ 3):	5	12.9
Pool Frequency (channel widths/pool):	4.6	
Residual pool depth (avg)	0.44m	

STREAM SUMMARY

STEER CK (POST 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
21	389	5.5	0.37	2,295	21	17	34	6	1	20	6

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,447	63.0
Backwater Pools	13	0.6
Glide	193	8.4
Riffle	440	19.2
Rapid	98	4.3
Cascade	0	0.0
Step	42	1.8
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	1,341
Total conifers/1000 ft	0
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	2.5	0.0	3.0	0.0	13.0	0.0	18.5
15-30cm	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
30-50cm	0.0	1.0	0.0	1.0	0.0	0.0	0.0	2.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
Total/100m ²	0.0	4.0	0.0	5.0	0.0	13.0	0.0	7.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	61		49		19	
Shrub cover	24		25		29	
Grass/forb cover	76		75		64	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		25		50
High terrace	100		75		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 (%)	4		5		24	

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	1,341
Total conifers/1000 ft	
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	0.0	18.5
15-30cm	0.0	1.0
30-50cm	0.0	2.0
50-90cm	0.0	0.0
>90cm	0.0	0.5

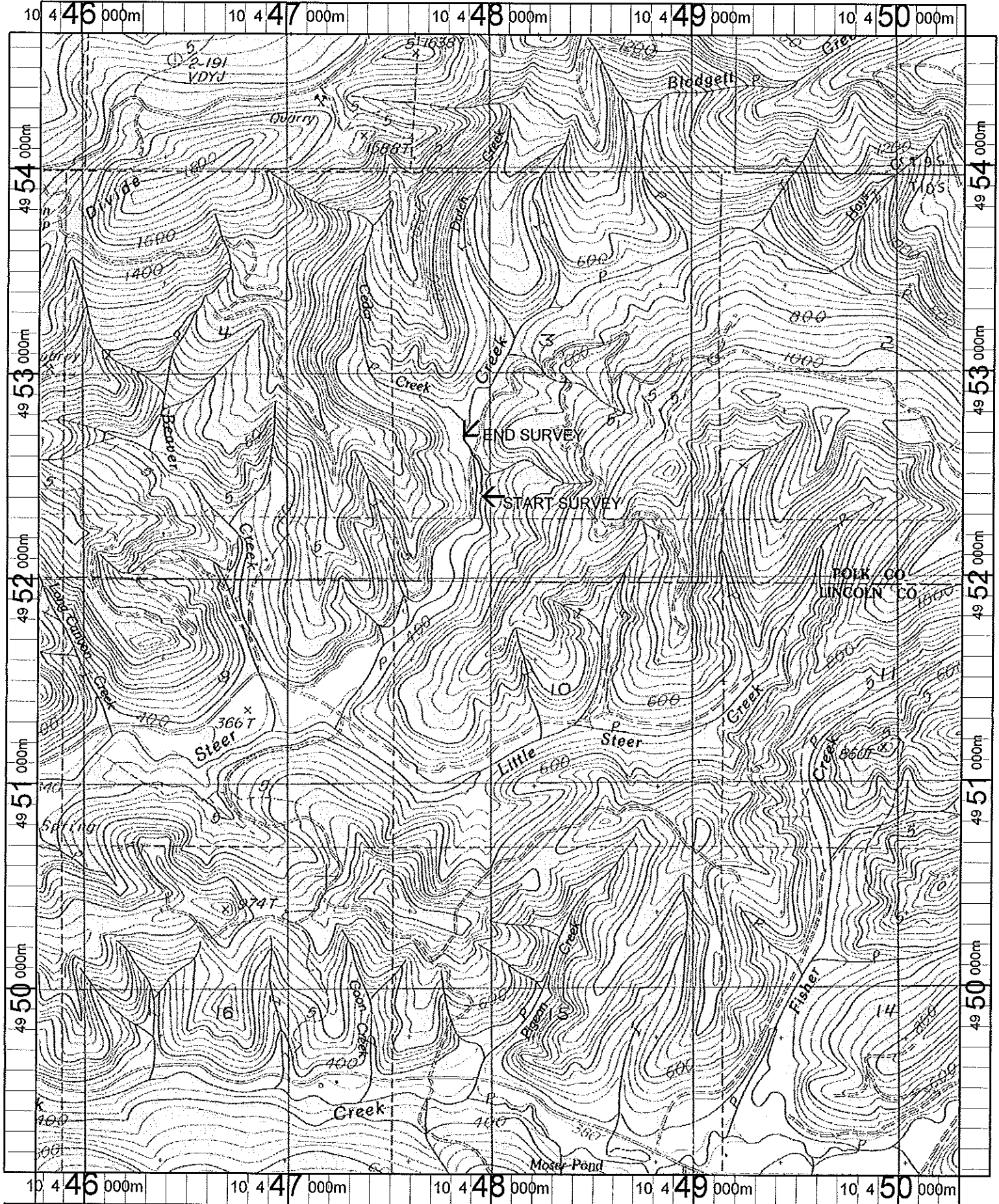
RIPARIAN ZONE VEGETATION

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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	5.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	ALDER
9	LF	2	HS	15.0	50	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	LF	3	HS	25.0	0	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	RT	1	HT	10.0	85	60	40	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	1	90+ = V.MAPLE
9	RT	2	HT	0.0	60	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	RT	3	HT	5.0	0	10	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	LF	1	HT	0.0	75	35	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	LF	2	HT	5.0	85	50	50	Conifer	0	0	0	0	0	
								Hardwood	6	2	2	0	0	V.MAPLE,ALDER
16	LF	3	HS	60.0	55	75	25	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
16	RT	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	.8M STUMP
16	RT	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	RT	3	HT	5.0	20	30	70	Conifer	0	0	0	0	0	
								Hardwood	25	0	0	0	0	MAPLE



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

Location: 10 447954 E 4951851 N
 Caption: STEER CREEK
 RESTORATION SITE
 ODFW 1999