

REACH 1

T10S-R8W-S9SW

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

Valley Width Index avg: 2.1 range: 1.6-2.4

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
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	546	1,078	0
Secondary	34	51	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.0	Width	4.6	6.6	7.6
Depth	0.17	Height	0.5	0.9	1.2
		W:D ratio	10.3	Entrenchment	1.4

Stream Flow Type: LF Water Temp: 15.0-15.0°C
 Avg. Unit Gradient: 1.8% Habitat Units/100m: 6.9

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 92%
Undercut Banks	0%	Range: 64-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	87	15.9
Volume (m ³)	108	19.8
Key pieces (≥10m x 0.6m)	9	1.6

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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
POOL-LATERAL SCOUR	19	223	2.2	0.27	497	0	12	47	35	5	0	1
RAPID/BOULDERS	6	117	1.6	0.07	208	3	0	13	49	34	1	3
RIFFLE	14	236	1.8	0.07	411	0	3	24	68	5	0	0
STEP/COBBLE	1	5	3.0	0.05	14	0	0	11	58	32	0	0
Total:	40	580	2.0	0.17	1,129	3	Avg: 7	33	49	10	0	1

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	0	0	-	-	0	0.00	0	0.0
Scour Pools	19	223	2.2	0.27	497	44.00	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	14	236	1.8	0.07	411	36.39	0	0.0
Rapids	6	117	1.6	0.07	208	18.42	3	1.4
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	5	3.0	0.05	14	1.20	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	19	32.8
Pools $\geq 1m$ deep:	0	0.0
Complex pools (LWD pieces ≥ 3):	7	12.1
Pool Frequency (channel widths/pool):	6.7	
Residual pool depth (avg)	0.20m	

STREAM SUMMARY

LITTLE 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	
40	580	2.0	0.17	1,129	7	33	49	10	0	1	3

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	497	44.0
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	411	36.4
Rapid	208	18.4
Cascade	0	0.0
Step	14	1.2
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	1,829
Total conifers/1000 ft	91
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	7.0	0.0	10.5	1.5	8.5	1.5	26.0
15-30cm	0.0	0.5	0.0	0.5	0.0	1.5	0.0	2.5
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
>90cm	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
Total/100m ²	0.0	8.0	0.0	12.0	1.5	10.0	0.5	10.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	88		68		76	
Shrub cover	24		48		51	
Grass/forb cover	56		53		49	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	75		100		100	
High terrace	25		0		0	
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 (%)	34		35		33	

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	1,829
Total conifers/1000 ft	91
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	1.5	26.0
15-30cm	0.0	2.5
30-50cm	0.0	0.0
50-90cm	0.0	1.0
>90cm	0.0	0.5

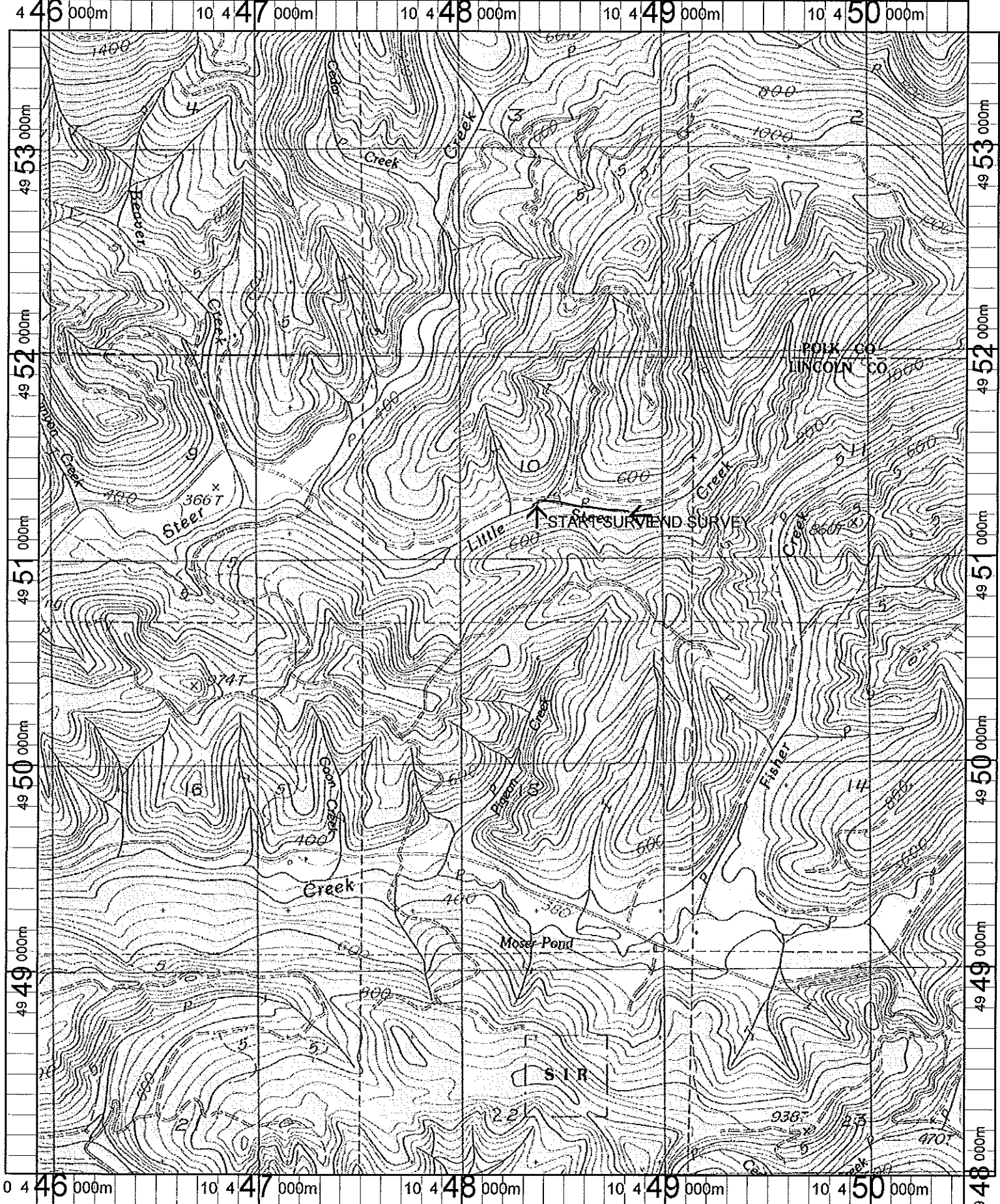
RIPARIAN ZONE VEGETATION

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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	
11	LF	1	HT	5.0	70	10	9	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
11	LF	2	HS	25.0	10	90	10	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	
11	LF	3	HS	25.0	80	90	10	Conifer	1	0	0	0	0	
								Hardwood	1	0	0	0	0	
11	RT	1	HS	60.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
11	RT	2	HS	60.0	70	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	RT	3	HS	60.0	40	100	0	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
20	LF	1	HS	20.0	95	10	90	Conifer	0	0	0	0	0	
								Hardwood	4	1	0	0	0	
20	LF	2	HS	10.0	95	10	90	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	1	0	
20	LF	3	HS	20.0	90	5	95	Conifer	0	0	0	0	0	
								Hardwood	6	2	0	0	0	ALDER
20	RT	1	HS	50.0	95	5	95	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	1	ALDER
20	RT	2	HS	45.0	95	10	90	Conifer	0	0	0	0	0	
								Hardwood	13	0	0	1	0	
20	RT	3	HS	25.0	95	10	90	Conifer	2	0	0	0	0	
								Hardwood	10	0	0	0	0	



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

Location: 10 448114 E 4950763 N
 Caption: LITTLE STEER CREEK
 RESTORATION SITE
 ODFW 1999