

REACH 1

T10S-R9W-S17SE

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: 8.8 range: 3.0-13.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	100
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	568	1,926	0
Secondary	119	236	2

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.0	Width	6.1	17.5	7.0
Depth	0.36	Height	0.5	0.9	0.7
		W:D ratio	12.8	Entrenchment	3.0

Stream Flow Type: MF Water Temp: 12.0-12.0°C
 Avg. Unit Gradient: 0.8% Habitat Units/100m: 7.4

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	12%	Reach avg: 55%
Undercut Banks	29%	Range: 22- 78

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	76	13.4
Volume (m ³)	274	48.3
Key pieces (≥10m x 0.6m)	24	4.2

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
GLIDE	1	23	3.1	0.20	70	0	0	50	50	0	0	0
POOL-LATERAL SCOUR	26	374	3.4	0.55	1,379	0	23	27	31	5	0	15
POOL-STRAIGHT SCOUR	1	3	1.0	0.25	3	0	20	20	60	0	0	0
PUDDLED CHANNEL	2	49	0.7	0.00	35	0	70	20	10	0	0	0
RIFFLE	14	183	3.1	0.17	504	11	0	9	67	10	1	12
RIFFLE W/ POCKETS	3	48	3.3	0.30	155	0	17	20	43	7	0	13
STEP/BOULDERS	1	3	4.1	0.10	11	12	0	10	10	10	70	0
STEP/COBBLE	1	2	2.1	0.10	3	0	40	0	60	0	0	0
STEP/LOG	2	3	0.8	0.02	2	0	70	0	30	0	0	0
Total:	51	687	3.0	0.36	2,161	23	Avg:1.9	20	42	6	2	12

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	27	377	3.4	0.54	1,382	63.95	0	0.0
Glides	1	23	3.1	0.20	70	3.24	0	0.0
Riffles	17	231	3.1	0.19	659	30.49	11	1.7
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	4	7	1.9	0.06	16	0.72	12	77.4
Dry	2	49	0.7	0.00	35	1.60	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	27	39.3
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	8	11.6
Pool Frequency (channel widths/pool):	4.2	
Residual pool depth (avg)	0.40m	

STREAM SUMMARY

LONG PRAIRIE CR. UP (POST-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	
51	687	3.0	0.36	2,161	19	20	42	6	2	12	23

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,382	63.9
Backwater Pools	0	0.0
Glide	70	3.2
Riffle	659	30.5
Rapid	0	0.0
Cascade	0	0.0
Step	16	0.7
Dry	35	1.6

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	386
Total conifers/1000 ft	20
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	0.7	0.0	2.0	0.0	0.3	0.0	3.0
15-30cm	0.0	0.0	0.0	1.0	0.0	0.7	0.0	1.7
30-50cm	0.3	1.3	0.0	0.3	0.0	0.0	0.3	1.7
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 ²	0.3	2.0	0.0	3.3	0.0	1.0	0.1	2.1

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	45		38		15	
Shrub cover	27		44		27	
Grass/forb cover	73		54		70	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		33		33
High terrace	0		0		0	
Low terrace	33		33		33	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	33		33		33	
Riprap	0		0		0	
Surface slope (%)	15		13		13	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

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

Total hardwoods/1000 ft	386
Total conifers/1000 ft	20
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	3.0
15-30cm	0.0	1.7
30-50cm	0.3	1.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

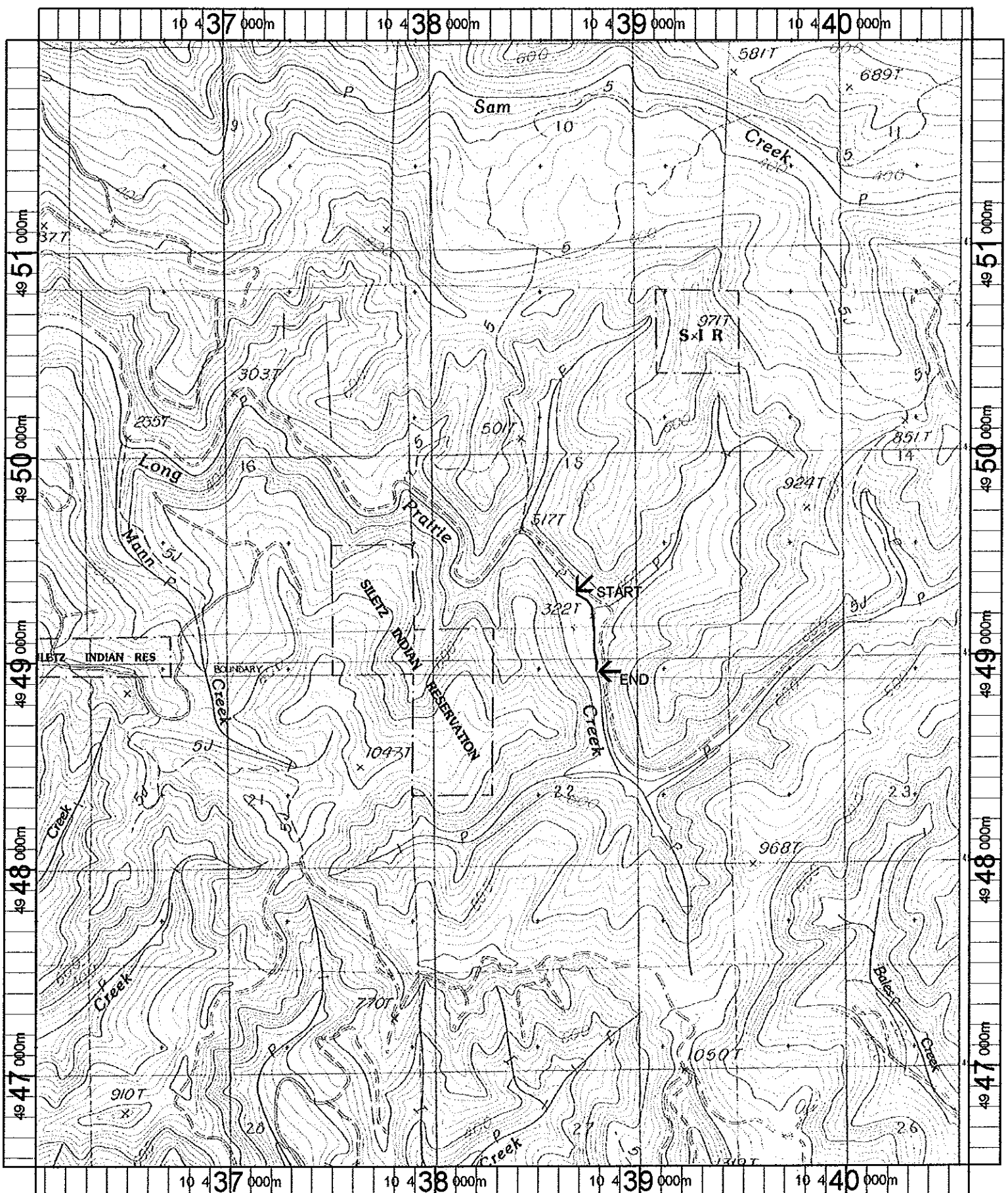
RIPARIAN ZONE VEGETATION

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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	
11	LF	1	LT	0.0	70	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	LF	2	LT	0.0	50	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	ALDER
11	LF	3	LT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	RT	1	HS	40.0	90	5	90	Conifer	0	0	1	0	0	
								Hardwood	2	0	0	0	0	DOUGLAS FIR, ASH, B
11	RT	2	LT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	FIELD
11	RT	3	LT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
28	LF	1	RB	0.0	50	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	ALDER
28	LF	2	RB	0.0	50	50	40	Conifer	0	0	0	0	0	
								Hardwood	4	1	0	0	0	ALDER, ASH
28	LF	3	RB	0.0	0	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
28	RT	1	RB	0.0	0	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
28	RT	2	RB	0.0	0	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	BLACKBERRIES
28	RT	3	RB	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	FIELD MEADOW
45	LF	1	LT	10.0	10	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
45	LF	2	HS	40.0	50	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	OR ASH, SALMONBERRY
45	LF	3	HS	40.0	50	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
45	RT	1	HS	40.0	50	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	0	0	ALDER
45	RT	2	HS	40.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	2	2	0	0	0	ALDER
45	RT	3	HS	40.0	40	60	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	CLEARCUT AT TOP OF



Name: EDDYVILLE
 Date: 5/8/100
 Scale: 1 inch equals 2000 feet

Location: 10 438254 E 4949260 N
 Caption: LONG PRAIRIE CREEK
 (UPPER)
 RESTORATION SITE
 ODEW 2000