

REACH 1

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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: 8.4 range: 4.0-12.0

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	480	1,885	0
Secondary	46	82	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 3.5	Width 5.9	18.1	8.7
Depth 0.43	Height 0.7	1.3	1.3
	W:D ratio 9.3	Entrenchment 3.1	

Stream Flow Type: MF Water Temp: 13.0-13.0°C
 Avg. Unit Gradient: 0.4% Habitat Units/100m: 7.4

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	10%	Reach avg: 80%
Undercut Banks	4%	Range: 31-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	71	14.8
Volume (m^3)	135	28.2
Key pieces ($\geq 10m \times 0.6m$)	6	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
GLIDE	1	22	3.8	0.30	85	0	78	11	11	0	0	0
POOL-ALCOVE	1	12	2.0	0.30	24	0	100	0	0	0	0	0
POOL-BACKWATER	4	21	2.6	0.38	48	0	70	30	0	0	0	0
POOL-LATERAL SCOUR	22	306	4.4	0.60	1,408	0	59	35	6	0	0	1
RIFFLE	10	145	2.1	0.13	332	0	10	24	65	0	0	0
RIFFLE W/ POCKETS	1	19	3.6	0.30	70	0	22	33	44	0	0	0
Total:	39	525	3.5	0.43	1,967	0	Avg:48	30	22	0	0	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	5	33	2.5	0.36	72	3.63	0	0.0
Scour Pools	22	306	4.4	0.60	1,408	71.60	0	0.0
Glides	1	22	3.8	0.30	85	4.33	0	0.0
Riffles	11	165	2.3	0.15	402	20.44	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	27	51.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	11	20.9
Pool Frequency (channel widths/pool):	3.3	
Residual pool depth (avg)	0.44m	

STREAM SUMMARY

LONG TOM CREEK (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	
39	525	3.5	0.43	1,967	48	30	22	0	0	0	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,408	71.6
Backwater Pools	72	3.6
Glide	85	4.3
Riffle	402	20.4
Rapid	0	0.0
Cascade	0	0.0
Step	0	0.0
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	1,402
Total conifers/1000 ft	142
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	5.0	0.3	3.7	0.3	3.7	0.7	12.3
15-30cm	0.0	1.0	0.0	1.7	1.7	2.7	1.7	5.3
30-50cm	0.0	1.3	0.0	0.7	0.0	1.3	0.0	3.3
50-90cm	0.0	0.3	0.0	0.7	0.0	0.7	0.0	1.7
>90cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Total/100m ²	0.0	7.7	0.3	7.0	2.0	8.3	0.8	7.7

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	78		73		45	
Shrub cover	15		28		33	
Grass/forb cover	85		68		53	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	0		33		50	
High terrace	100		67		33	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		17	
Riprap	0		0		0	
Surface slope (%)	1		9		15	

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	1,402
Total conifers/1000 ft	142
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	0.7	12.3
15-30cm	1.7	5.3
30-50cm	0.0	3.3
50-90cm	0.0	1.7
>90cm	0.0	0.3

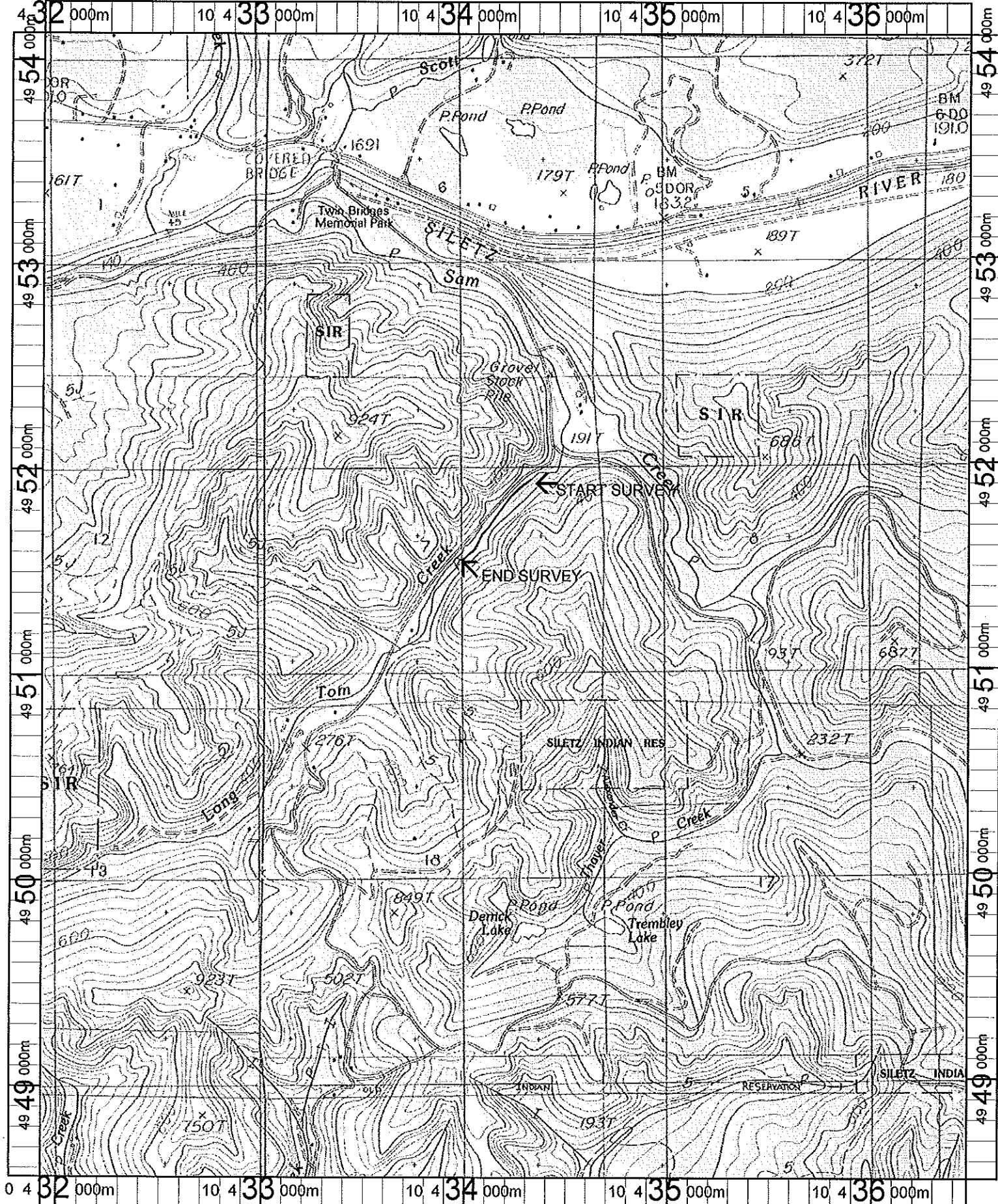
RIPARIAN ZONE VEGETATION

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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	
10	LF	1	HT	0.0	90	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
10	LF	2	HS	35.0	90	40	60	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
10	LF	3	HS	50.0	85	0	100	Conifer	1	5	0	0	0	
								Hardwood	1	4	0	0	0	
10	RT	1	HT	0.0	80	5	95	Conifer	0	0	0	0	0	
								Hardwood	3	0	1	0	0	
10	RT	2	HS	15.0	60	30	70	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	1	
10	RT	3	HS	15.0	0	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
20	LF	1	HT	0.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	4	2	2	0	0	
20	LF	2	HT	0.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	3	2	0	0	0	
20	LF	3	HS	20.0	95	80	20	Conifer	0	0	0	0	0	
								Hardwood	2	2	1	0	0	
20	RT	1	HT	0.0	95	10	90	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	1	0	
20	RT	2	HT	0.0	95	15	85	Conifer	0	0	0	0	0	
								Hardwood	3	2	1	2	0	
20	RT	3	RB	0.0	0	0	20	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	GRAVEL RB=80%, ALSO HIL
32	LF	1	HT	5.0	40	70	30	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	
32	LF	2	HT	0.0	20	70	30	Conifer	1	0	0	0	0	
								Hardwood	2	1	0	0	0	
32	LF	3	HT	0.0	10	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
32	RT	1	HT	0.0	80	5	95	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
32	RT	2	HT	5.0	80	0	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	DIRT=30%
32	RT	3	HT	5.0	80	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	2	3	2	0	ORANGE FLAG



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

Location: 10 434124 E 4951304 N
 Caption: LONG TOM CREEK
 RESTORATION SITE
 ODFW 1999