

REACH 1

T14S-R8W-25SW

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: 6.0 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	467	2,525	0
Secondary	60	107	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.2	Width	8.6	16.9	11.7
Depth	0.28	Height	0.5	0.9	1.0
		W:D ratio	18.9	Entrenchment	1.8

Stream Flow Type: MF Water Temp: 15.0-15.0°C
 Avg. Unit Gradient: 3.0% Habitat Units/100m: 6.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	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	7%	Reach avg: 93%
Undercut Banks	12%	Range: 75-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	59	12.6
Volume (m ³)	56	12.0
Key pieces ($\geq 10m \times 0.6m$)	3	0.6

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	13	3.9	0.30	49	3	0	9	32	55	5	0
POOL-BACKWATER	1	7	2.3	0.25	15	0	90	5	0	5	0	0
POOL-LATERAL SCOUR	8	100	4.6	0.51	474	31	4	8	23	42	11	12
RAPID/BOULDERS	8	226	4.7	0.23	1,164	154	1	7	15	40	37	0
RIFFLE	6	81	5.6	0.19	511	61	2	7	20	46	14	11
RIFFLE W/ POCKETS	2	69	3.3	0.33	191	9	5	23	20	45	8	0
STEP/BEDROCK	1	4	9.0	0.01	37	0	0	0	0	5	0	95
STEP/BOULDERS	3	13	5.3	0.18	72	21	2	5	10	34	49	0
STEP/COBBLE	3	14	8.3	0.09	120	6	2	8	15	63	3	8
Total:	33	527	5.2	0.28	2,632	285	Avg: 5	8	17	42	20	8

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	1	7	2.3	0.25	15	0.58	0	0.0
Scour Pools	8	100	4.6	0.51	474	17.99	31	6.5
Glides	1	13	3.9	0.30	49	1.87	3	6.1
Riffles	8	150	5.0	0.23	702	26.66	70	10.0
Rapids	8	226	4.7	0.23	1,164	44.20	154	13.2
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	7	31	7.1	0.12	229	8.70	27	11.8
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	9	17.1
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	5	9.5
Pool Frequency (channel widths/pool):	6.8	
Residual pool depth (avg)	0.39m	

STREAM SUMMARY

BUMMER CREEK (PRE-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	
33	527	5.2	0.28	2,632	5	8	17	42	20	8	285

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	474	18.0
Backwater Pools	15	0.6
Glide	49	1.9
Riffle	702	26.7
Rapid	1,164	44.2
Cascade	0	0.0
Step	229	8.7
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	1,554
Total conifers/1000 ft	30
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	5.5	0.5	0.0	0.0	3.0	0.5	8.5
15-30cm	0.0	7.5	0.0	1.5	0.0	3.0	0.0	12.0
30-50cm	0.0	2.5	0.0	1.0	0.0	1.0	0.0	4.5
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	0.5	0.0	0.5
Total/100m ²	0.0	15.5	0.5	2.5	0.0	7.5	0.2	8.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	92		80		61	
Shrub cover	69		55		58	
Grass/forb cover	30		45		39	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		33		0
High terrace	50		50		50	
Low terrace	33		17		17	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		33	
Riprap	0		0		0	
Surface slope (%)	3		8		0	

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	1,554
Total conifers/1000 ft	30
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	0.5	8.5
15-30cm	0.0	12.0
30-50cm	0.0	4.5
50-90cm	0.0	0.0
>90cm	0.0	0.5

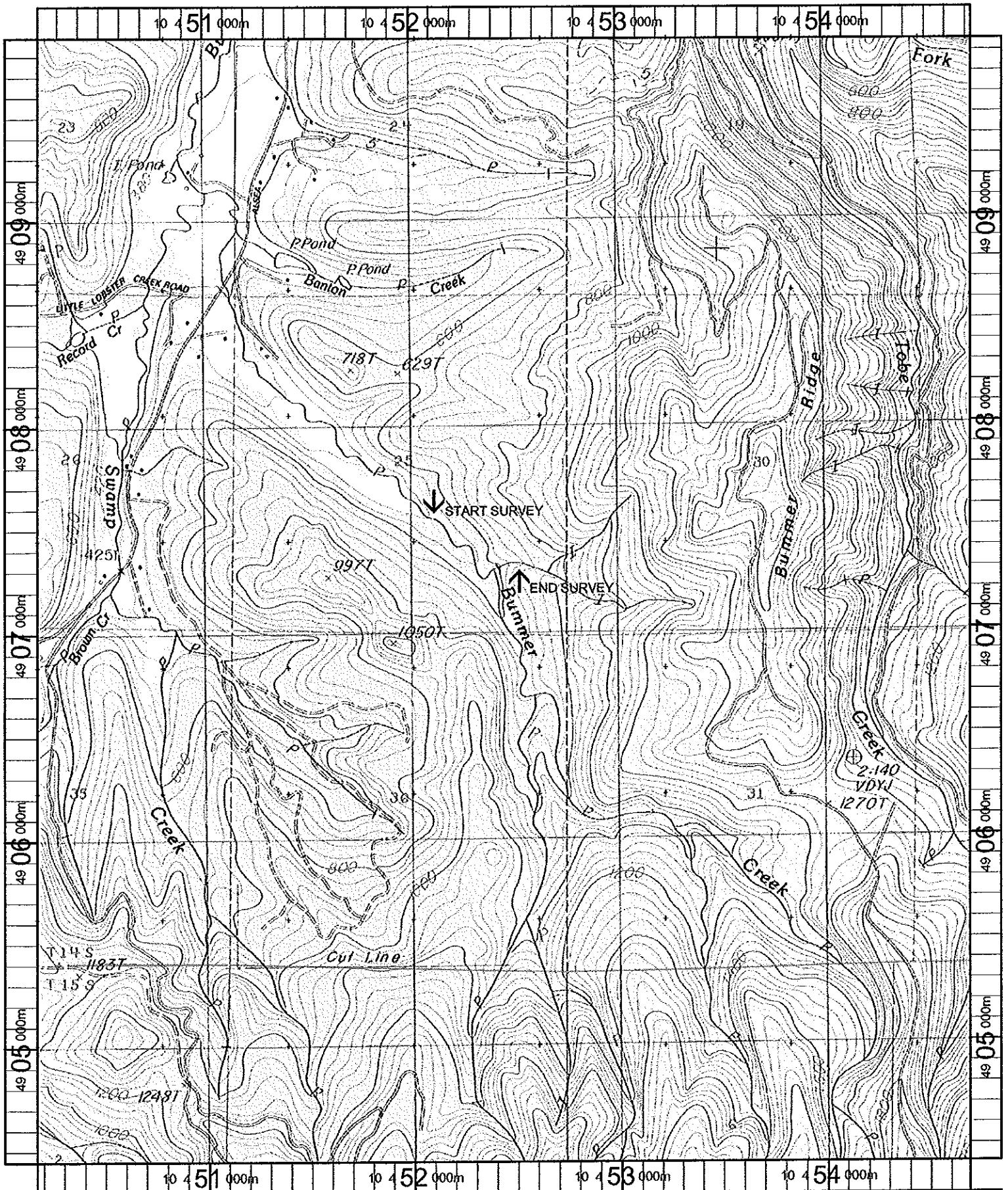
RIPARIAN ZONE VEGETATION

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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	
14	LF	1	LT	0.0	95	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	5	1	0	0	BIG LEAF MAPLE, ALD
14	LF	2	HS	10.0	50	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	NO TREES
14	LF	3	RB	0.0	0	0	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEARCUT
14	RT	1	LT	0.0	80	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	2	1	0	0	ALDER
14	RT	2	LT	0.0	70	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	OLD ROAD BED, ALDER
14	RT	3	LT	0.0	60	100	0	Conifer	0	0	0	0	0	
								Hardwood	2	1	1	0	0	ALDER
14	LF	1	HS	15.0	95	40	60	Conifer	0	0	0	0	0	
								Hardwood	4	1	0	0	0	
14	LF	2	HS	20.0	85	45	55	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
14	LF	3	RB	0.0	35	30	70	Conifer	0	0	0	0	0	
								Hardwood	2	2	1	0	0	ALDER
14	RT	1	HT	0.0	95	85	10	Conifer	0	0	0	0	0	
								Hardwood	1	3	2	0	0	
14	RT	2	HT	0.0	90	75	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	
14	RT	3	HT	0.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
30	LF	1	HT	0.0	95	90	10	Conifer	0	0	0	0	0	
								Hardwood	1	4	1	0	0	
30	LF	2	HT	15.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
30	LF	3	HT	0.0	85	75	25	Conifer	0	0	0	0	0	
								Hardwood	1	3	0	0	0	
30	RT	1	HT	0.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
30	RT	2	HT	0.0	95	20	80	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	RT	3	HT	0.0	95	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	1	



Name: PRAIRIE PEAK
 Date: 11/8/100
 Scale: 1 inch equals 2000 feet

Location: 10 452347 E 4907137 N
 Caption: BUMMER CREEK RESTORATION SITE - ALSEA BASIN