

REACH 1

T13S-R7W-S28

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: 15.0 range: 10.0-20.0

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	505	1,659	0
Secondary	259	487	6

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.1	Width	5.3	32.8	8.5
Depth	0.34	Height	0.5	0.9	0.9
		W:D ratio	12.5	Entrenchment	6.2

Stream Flow Type: MF Water Temp: 15.0-15.0°C  
Avg. Unit Gradient: 1.9% Habitat Units/100m: 9.3

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	3%	Reach avg: 62%
Undercut Banks	18%	Range: 11-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	61	12.1
Volume (m <sup>3</sup> )	92	18.2
Key pieces ( $\geq 10m \times 0.6m$ )	1	0.2

HABITAT UNIT SUMMARY

REACH 1 T13S-R7W-S28 REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
CULVERT CROSSING	1	10	1.8	0.25	18	0	50	30	10	5	5	0
DRY CHANNEL	1	34	3.4	0.00	116	0	0	10	40	50	0	0
DRY UNITS	2	31	0.5	0.00	16	2	97	0	0	0	0	3
GLIDE	1	19	2.7	0.15	50	0	10	15	35	40	0	0
POOL-BACKWATER	5	21	2.3	0.31	46	0	70	27	2	1	0	0
POOL-DAMMED	1	20	3.0	0.35	60	0	10	30	35	25	0	0
POOL-ISOLATED	2	11	2.2	0.25	22	0	70	28	0	3	0	0
POOL-LATERAL SCOUR	26	255	3.6	0.57	857	3	12	26	30	32	0	0
POOL-STRAIGHT SCOUR	2	20	5.3	0.85	121	0	25	18	20	35	3	0
PUDDLED CHANNEL	3	106	1.4	0.04	120	0	95	5	0	0	0	0
RAPID/BOULDERS	2	17	2.8	0.23	45	1	0	5	24	69	2	0
RIFFLE	20	212	3.0	0.18	647	0	4	10	35	51	0	0
STEP/COBBLE	4	8	3.9	0.12	28	0	4	8	31	57	0	0
STEP/LOG	1	0	2.9	0.01	1	0	70	20	0	10	0	0
<b>Total:</b>	<b>71</b>	<b>764</b>	<b>3.1</b>	<b>0.34</b>	<b>2,146</b>	<b>6</b>	<b>Avg:22</b>	<b>18</b>	<b>26</b>	<b>34</b>	<b>0</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	8	52	2.4	0.30	128	5.96	0	0.0
Scour Pools	28	275	3.7	0.59	978	45.56	3	0.3
Glides	1	19	2.7	0.15	50	2.33	0	0.0
Riffles	20	212	3.0	0.18	647	30.15	0	0.0
Rapids	2	17	2.8	0.23	45	2.07	1	2.2
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	8	3.7	0.10	29	1.35	0	0.0
Dry	6	171	1.4	0.02	252	11.74	2	0.8

POOL SUMMARY

	Total	#/Km
All Pools	36	47.2
Pools ≥1m deep:	4	5.2
Complex pools (LWD pieces ≥3):	7	9.2
Pool Frequency (channel widths/pool):	4.0	
Residual pool depth (avg)	0.38m	

STREAM SUMMARY

SEELEY CREEK #2 (POST TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area					Total Large Boulder	
					S/O	Sand	Grvl	Cbbl	Bldr		Bdrk
71	764	3.1	0.34	2,146	22	18	26	34	0	0	6

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	978	45.6
Backwater Pools	128	6.0
Glide	50	2.3
Riffle	647	30.1
Rapid	45	2.1
Cascade	0	0.0
Step	29	1.3
Dry	252	11.7

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	508
Total conifers/1000 ft	325
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	0.7	1.0	1.3	0.3	0.0	4.0	2.0	5.3
15-30cm	0.0	0.7	0.3	0.7	1.7	1.0	2.0	2.3
30-50cm	0.3	0.3	0.3	0.0	0.7	0.0	1.3	0.3
50-90cm	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	1.0	2.0	2.0	1.0	2.3	5.3	1.8	2.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	42		74		84	
Shrub cover	29		41		32	
Grass/forb cover	58		48		52	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		33		33
High terrace	33		17		33	
Low terrace	67		50		33	
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 (%)	3		10		34	

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	508
Total conifers/1000 ft	325
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	2.0	5.3
15-30cm	2.0	2.3
30-50cm	1.3	0.3
50-90cm	0.0	0.3
>90cm	0.0	0.0

---

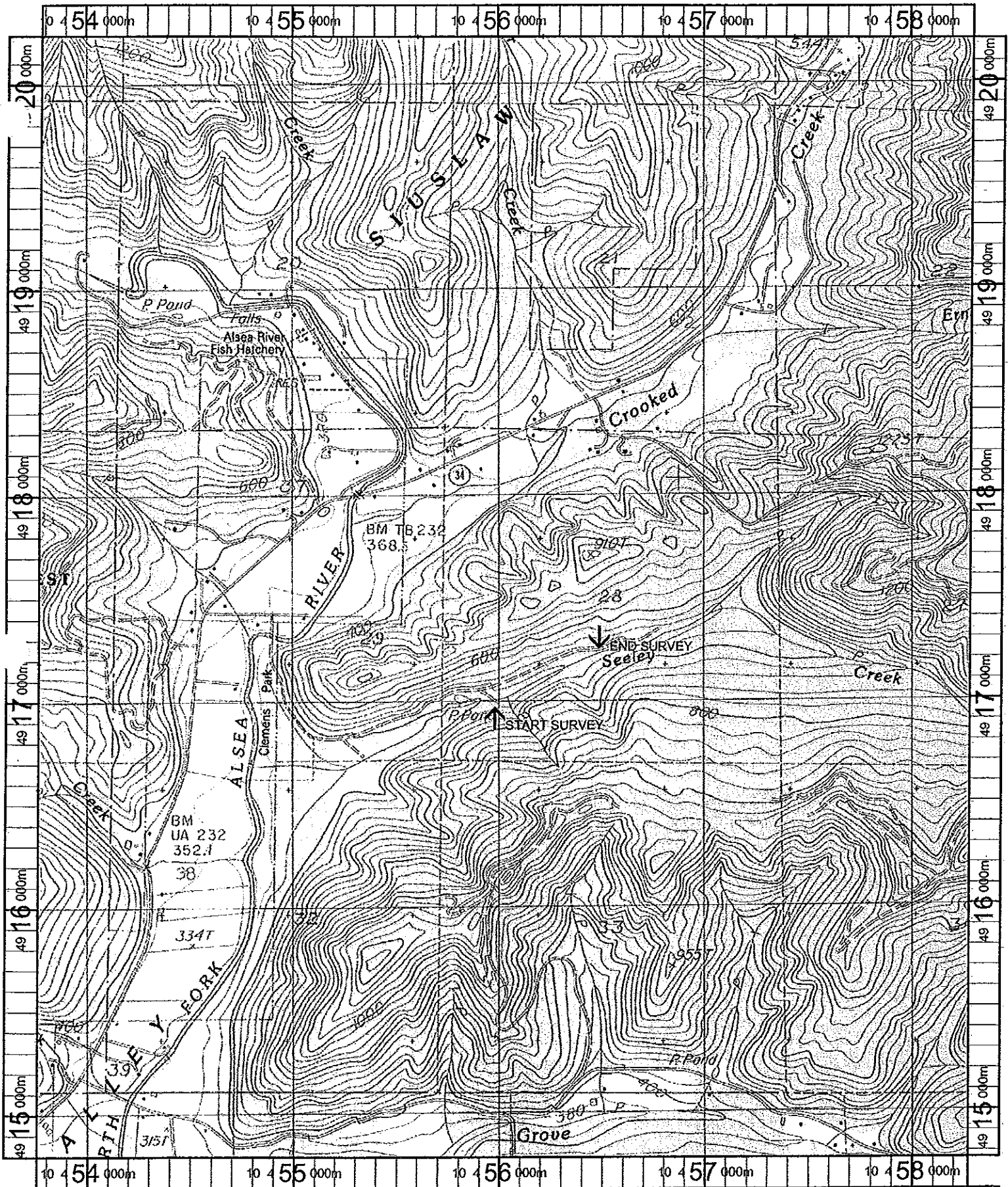
RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

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	
16	LF	1	LT	9.0	70	10	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	LF	2	LT	0.0	80	60	35	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	0	0	5% BARE GROUND
16	LF	3	LT	3.0	80	70	20	Conifer	0	1	0	0	0	
								Hardwood	2	0	0	0	0	10% BARE GROUND
16	RT	1	LT	0.0	50	20	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	RT	2	HS	30.0	60	40	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
16	RT	3	HS	100.0	75	60	20	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	1	0	ROAD AT TOP
33	LF	1	HT	7.0	20	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	ASH, ALDER
33	LF	2	HT	0.0	90	40	40	Conifer	0	1	0	0	0	
								Hardwood	0	1	0	0	0	D. FIR, ALDER
33	LF	3	HT	0.0	100	20	60	Conifer	0	2	1	0	0	
								Hardwood	0	0	0	0	0	D. FIR
33	RT	1	HT	0.0	0	90	10	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
33	RT	2	HS	30.0	20	90	0	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	SALMONBERRY, ALDER
33	RT	3	HS	100.0	100	30	60	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	BARE GROUND 10%, RO
54	LF	1	LT	0.0	60	5	90	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	BIG LEAF MAPLE, ALD
54	LF	2	LT	0.0	100	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
54	LF	3	LT	0.0	70	10	90	Conifer	0	0	0	0	0	
								Hardwood	4	1	0	0	0	WILLOW
54	RT	1	LT	0.0	50	10	90	Conifer	2	0	1	0	0	
								Hardwood	0	0	0	0	0	ASH, ALDER
54	RT	2	LT	0.0	95	10	80	Conifer	3	0	1	0	0	
								Hardwood	0	0	0	0	0	GRAND FIR, D. FIR
54	RT	3	HT	0.0	80	0	60	Conifer	0	2	1	0	0	
								Hardwood	0	1	0	0	0	DOUG FIR



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

Location: 10 45928 E 4917487 N  
 Caption: SEELEY CREEK #2 UPPER RESTORATION SITE - ALSEA BASIN