

REACH 1

T13S-R7W-28

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	0
Open V-shape	0	Wide Floodplain	100

Valley Width Index avg: 6.5 range: 2.5-12.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	100
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	545	1,790	0
Secondary	196	276	6

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.0	Width	10.1	48.2	18.6
Depth	0.34	Height	0.6	1.2	1.0
		W:D ratio	17.2	Entrenchment	6.7

Stream Flow Type: HF Water Temp: 17.0-17.0°C  
Avg. Unit Gradient: 1.9% Habitat Units/100m: 6.7

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	4%	Reach avg: 63%
Undercut Banks	0%	Range: 31-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	75	13.8
Volume (m <sup>3</sup> )	74	13.5
Key pieces (≥10m x 0.6m)	2	0.4

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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	17	0.5	0.25	9	0	0	40	35	15	10	0
DRY CHANNEL	4	157	1.4	0.00	215	0	3	63	28	8	0	0
DRY UNITS	1	12	0.5	0.00	6	0	0	70	30	0	0	0
POOL-BACKWATER	2	9	4.4	0.50	43	0	40	18	43	0	0	0
POOL-BEAVER DAM	2	36	5.5	0.90	196	0	13	25	58	4	0	0
POOL-DAMMED	1	24	3.0	0.90	73	0	6	72	22	0	0	0
POOL-LATERAL SCOUR	16	172	2.9	0.57	515	0	10	21	48	21	0	0
POOL-PLUNGE	1	7	7.0	1.10	49	0	14	38	38	10	0	0
PUDDLED CHANNEL	1	18	0.7	0.07	13	0	5	70	25	0	0	0
RIFFLE	12	258	3.0	0.14	850	0	3	17	50	29	0	1
STEP/BEAVER DAM	2	1	4.1	0.00	4	0	11	23	60	6	0	0
STEP/COBBLE	6	31	3.0	0.15	94	0	5	10	52	33	0	0
STEP/LOG	1	1	4.0	0.05	2	0	10	50	40	0	0	0
<b>Total:</b>	<b>50</b>	<b>742</b>	<b>3.0</b>	<b>0.34</b>	<b>2,066</b>	<b>0</b>	<b>Avg: 8</b>	<b>26</b>	<b>46</b>	<b>19</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	#/100m <sup>2</sup>
Dammed & BW Pools	5	69	4.5	0.74	311	15.07	0	0.0
Scour Pools	17	179	3.2	0.60	564	27.28	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	12	258	3.0	0.14	850	41.13	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	9	32	3.4	0.10	100	4.83	0	0.0
Dry	6	187	1.1	0.01	233	11.28	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	22	29.7
Pools ≥1m deep:	1	1.3
Complex pools (LWD pieces ≥3):	5	6.7
Pool Frequency (channel widths/pool):	3.3	
Residual pool depth (avg)	0.50m	

STREAM SUMMARY

SEELEY CREEK #2 (PRE SUM 99)

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
50	742	3.0	0.34	2,066	8	26	46	19	0	0	0

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	564	27.3
Backwater Pools	311	15.1
Glide	0	0.0
Riffle	850	41.1
Rapid	0	0.0
Cascade	0	0.0
Step	100	4.8
Dry	233	11.3

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	569
Total conifers/1000 ft	305
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	2.7	0.3	0.7	2.0	3.3	2.3	6.7
15-30cm	1.0	0.0	0.7	1.7	1.0	0.3	2.7	2.0
30-50cm	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.7
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 <sup>2</sup>	1.0	3.0	1.0	2.7	3.0	3.7	1.7	3.1

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	33		53		61	
Shrub cover	13		33		18	
Grass/forb cover	68		65		58	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		17		17
High terrace	33		33		33	
Low terrace	50		50		33	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		17	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	3		11		11	

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	569
Total conifers/1000 ft	305
Total conifers >20" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zones 1-3	
	Conifer	Hardwood
3-15cm	2.3	6.7
15-30cm	2.7	2.0
30-50cm	0.0	0.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

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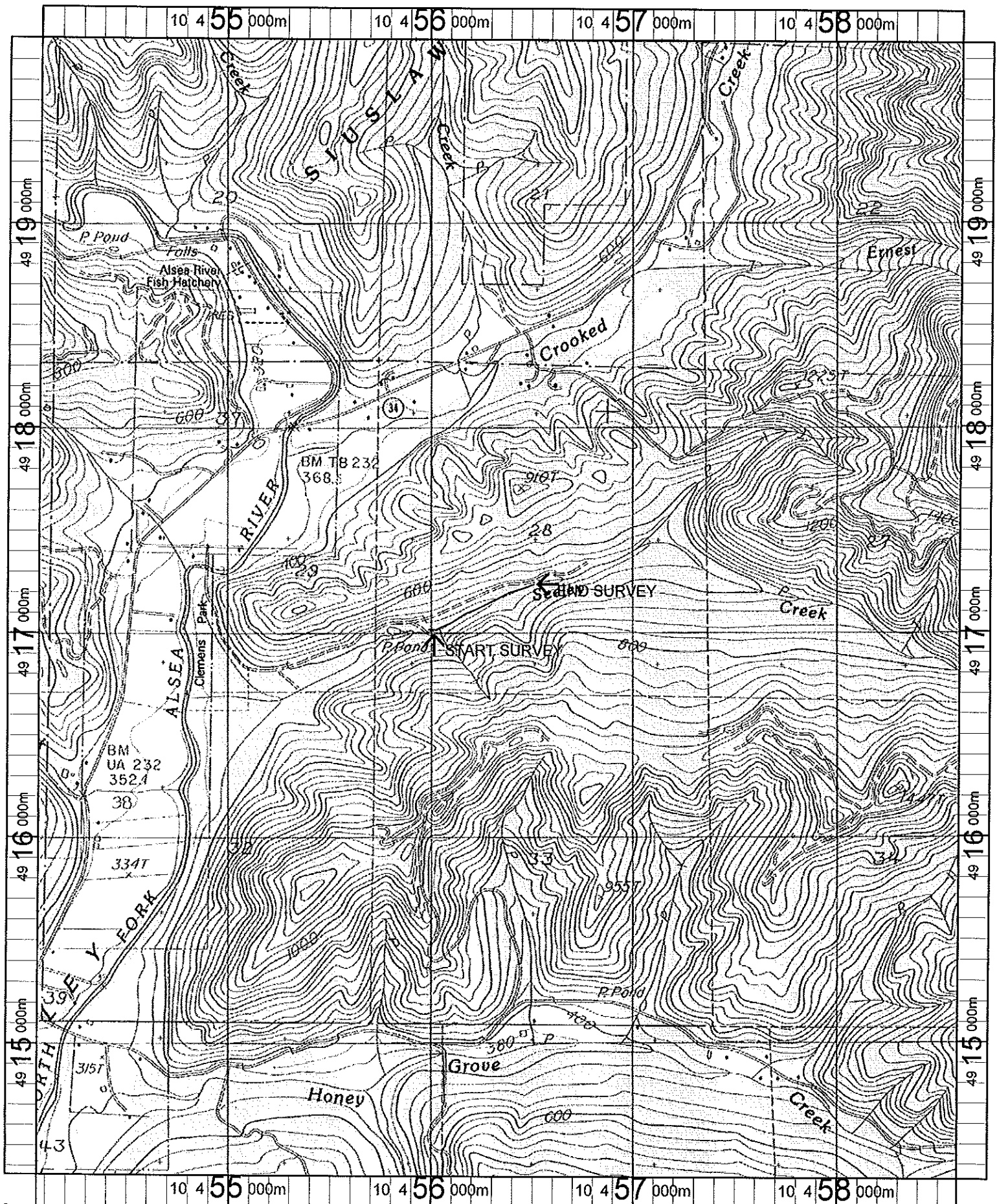
RIPARIAN ZONE VEGETATION

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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	
18	LF	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	PLANTED TREES (SMAL
18	LF	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	3	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	1	LT	1.0	90	25	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
18	RT	2	HS	65.0	90	30	60	Conifer	0	0	0	0	0	
								Hardwood	1	5	0	0	0	10% DIRT, DECAY, ET
18	RT	3	HS	65.0	50	10	80	Conifer	0	0	0	0	0	
								Hardwood	9	1	0	0	0	ALDER, MAPLE
25	LF	1	HT	15.0	50	30	70	Conifer	0	2	0	0	0	
								Hardwood	0	0	0	0	0	
25	LF	2	HT	0.0	85	60	40	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	
25	LF	3	HT	0.0	85	80	20	Conifer	0	2	0	0	0	
								Hardwood	1	0	0	0	0	
25	RT	1	1	0.0	0	0	0	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	10% SAND FROM CHANN
25	RT	2	LT	0.0	40	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	REPLANTED CONIFERS
25	RT	3	SC	2.0	70	5	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	75% SECONDARY CHANN
38	LF	1	LT	2.0	50	20	80	Conifer	0	1	0	0	0	
								Hardwood	4	0	0	0	0	
38	LF	2	LT	0.0	10	35	65	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	PLANTED TREES (SMAL
38	LF	3	LT	0.0	65	10	30	Conifer	3	0	0	0	0	
								Hardwood	0	0	0	0	0	30% GRAVEL ROADBED
38	RT	1	LT	0.0	5	5	95	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	PLANTED TREES TOO S
38	RT	2	LT	0.0	90	75	25	Conifer	1	1	0	0	0	
								Hardwood	0	0	0	0	0	
38	RT	3	LT	0.0	95	5	95	Conifer	3	1	0	0	0	
								Hardwood	0	0	0	0	0	



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

Location: 10 456246 E 4917100 N  
 Caption: SEELEY CREEK #2  
 UPPER RESTORATION SITE  
 ODFW 1999