

REACH 1

T14S-R7W-S7SE

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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	0
Moderate V-shape	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 10.4 range: 10.0-12.0

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	418	641	0
Secondary	22	38	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	1.4	Width	2.5	12.4	7.3
Depth	0.31	Height	0.5	1.0	1.3
		W:D ratio	4.8	Entrenchment	4.8

Stream Flow Type: MF Water Temp: 15.0-15.0°C
 Avg. Unit Gradient: 1.7% Habitat Units/100m: 11.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	4%	Reach avg: 74%
Undercut Banks	1%	Range: 44-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	41	9.8
Volume (m ³)	1.12	26.8
Key pieces (≥10m x 0.6m)	16	3.8

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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
CULVERT CROSSING	1	15	0.6	0.06	9	0	0	20	50	30	0	0
DRY CHANNEL	1	14	2.1	0.00	29	0	0	35	65	0	0	0
GLIDE	3	53	1.3	0.20	70	0	28	38	34	0	0	0
POOL-BACKWATER	1	2	2.0	0.45	3	0	50	40	10	0	0	0
POOL-LATERAL SCOUR	21	255	1.7	0.53	425	0	38	43	19	0	0	0
POOL-PLUNGE	1	7	2.8	0.95	19	0	40	60	0	0	0	0
RIFFLE	12	85	1.3	0.12	113	0	18	40	42	0	0	0
STEP/COBBLE	6	9	0.8	0.06	10	0	28	34	38	0	0	0
STEP/LOG	2	1	0.6	0.05	0	0	5	33	63	0	0	0
STEP/STRUCTURE	1	0	0.6	0.05	0	0	40	60	0	0	0	0
Total:	49	439	1.4	0.31	679	0	Avg:29	40	30	1	0	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders Number	Boulders #/100m ²
					(m ²)	Percent		
Dammed & BW Pools	1	2	2.0	0.45	3	0.50	0	0.0
Scour Pools	22	262	1.7	0.55	444	65.33	0	0.0
Glides	3	53	1.3	0.20	70	10.31	0	0.0
Riffles	12	85	1.3	0.12	113	16.70	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	9	10	0.7	0.06	10	1.50	0	0.0
Dry	1	14	2.1	0.00	29	4.33	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	23	52.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces≥3):	3	6.8
Pool Frequency (channel widths/pool):	7.6	
Residual pool depth (avg)	0.43m	

STREAM SUMMARY

HEADRICK CK (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	
49	439	1.4	0.31	679	29	40	30	1	0	0	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	444	65.3
Backwater Pools	3	0.5
Glide	70	10.3
Riffle	113	16.7
Rapid	0	0.0
Cascade	0	0.0
Step	10	1.5
Dry	29	4.3

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	711
Total conifers/1000 ft	386
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	2.0	0.7	3.0	2.7	0.7	3.3	5.7
15-30cm	0.0	2.3	0.0	1.7	2.3	0.3	2.3	4.3
30-50cm	0.0	1.7	0.0	0.0	0.7	0.0	0.7	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	0.0	6.0	0.7	4.7	5.7	1.0	2.1	3.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	48		32		46	
Shrub cover	17		11		32	
Grass/forb cover	83		81		68	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		0		17
High terrace	67		83		83	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		0	
Riprap	0		0		0	
Surface slope (%)	17		1		1	

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	711
Total conifers/1000 ft	386
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	3.3	5.7
15-30cm	2.3	4.3
30-50cm	0.7	1.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

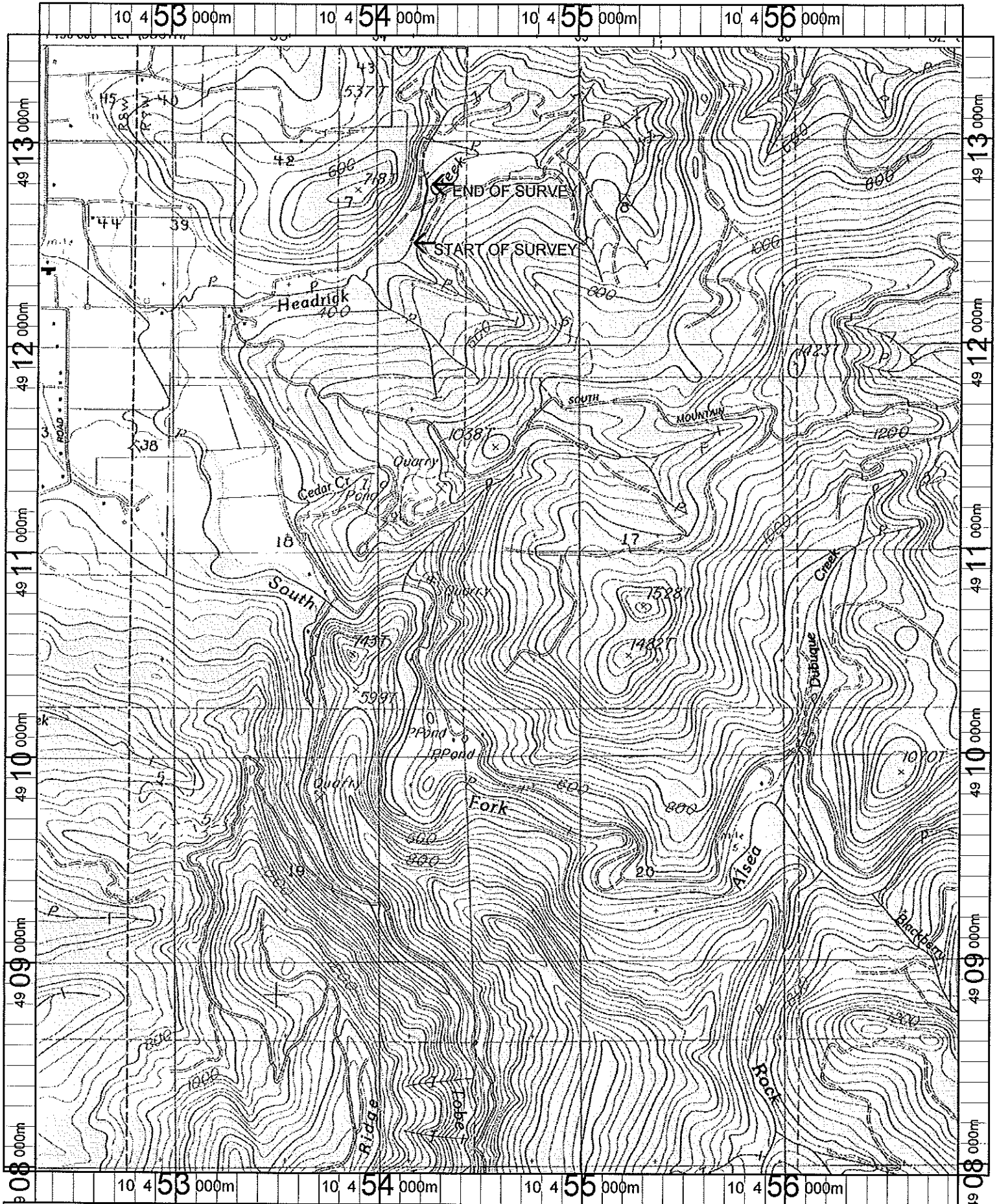
RIPARIAN ZONE VEGETATION

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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	
15	LF	1	HS	80.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	2	RB	0.0	75	0	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	50% GRAVEL, SURFACE=
15	LF	3	HS	3.0	80	35	65	Conifer	0	0	1	0	0	
								Hardwood	2	0	0	0	0	
15	RT	1	HT	0.0	30	75	25	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
15	RT	2	HT	0.0	60	50	50	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
15	RT	3	HT	0.0	60	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
29	LF	1	HT	0.0	60	5	95	Conifer	0	0	0	0	0	
								Hardwood	2	6	2	0	0	
29	LF	2	HT	3.0	15	0	100	Conifer	0	0	0	0	0	
								Hardwood	4	5	0	0	0	
29	LF	3	HT	3.0	40	0	100	Conifer	2	0	1	0	0	
								Hardwood	0	0	0	0	0	
29	RT	1	LT	0.0	30	0	100	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
29	RT	2	HT	0.0	30	10	90	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	0	0	
29	RT	3	HT	0.0	30	10	90	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	0	0	
41	LF	1	HT	20.0	40	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	/MAYBE OLD ROAD
41	LF	2	HT	0.0	5	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
41	LF	3	HT	0.0	60	80	20	Conifer	0	7	0	0	0	
								Hardwood	0	0	0	0	0	
41	RT	1	HT	0.0	40	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	0	0	ALDER
41	RT	2	HT	0.0	5	0	100	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
41	RT	3	HT	0.0	5	5	95	Conifer	4	0	0	0	0	
								Hardwood	0	0	0	0	0	



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

Location: 10 454503 E 4910721 N
 Caption: HENDRICK CREEK
 RESTORATION SITE
 ODFW 1999