

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

Valley Width Index avg: 3.4 range: 2.5-4.0

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	2,109	5,745	0
Secondary	216	356	3

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.7	Width	4.7	14.2	5.2
Depth	0.32	Height	0.5	0.9	0.7
		W:D ratio	9.9	Entrenchment	3.0

Stream Flow Type: LF Water Temp: 12.5-12.5°C
 Avg. Unit Gradient: 2.1% Habitat Units/100m: 5.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	M1	
Riparian Vegetation:	D15	

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 97%
Undercut Banks	9%	Range: 44-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	418	19.8
Volume (m ³)	967	45.8
Key pieces (≥10m x 0.6m)	105	5.0

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
DRY CHANNEL	2	104	2.4	0.30	191	0	13	35	45	8	0	0
GLIDE	4	82	2.1	0.25	146	0	10	29	55	6	0	0
POOL-BACKWATER	1	5	3.7	0.35	17	0	40	35	25	0	0	0
POOL-ISOLATED	1	6	3.6	0.25	20	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	47	445	3.1	0.56	1,419	2	6	31	51	12	0	0
POOL-PLUNGE	7	30	3.1	0.54	90	1	6	30	52	10	1	0
PUDDLED CHANNEL	1	55	1.4	0.30	77	0	15	40	40	5	0	0
RIFFLE	48	1,194	2.4	0.13	2,866	5	2	20	59	18	1	0
RIFFLE W/ POCKETS	8	382	3.2	0.23	1,235	122	4	21	50	21	3	1
STEP/COBBLE	3	15	1.9	0.12	29	0	0	12	53	35	0	0
STEP/LOG	8	8	1.5	0.12	11	0	0	16	62	22	0	0
Total:	130	2,325	2.7	0.32	6,102	130	Avg: 5	25	54	15	1	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	2	10	3.7	0.30	37	0.61	0	0.0
Scour Pools	54	474	3.1	0.56	1,509	24.73	3	0.2
Glides	4	82	2.1	0.25	146	2.39	0	0.0
Riffles	56	1,576	2.6	0.14	4,101	67.21	127	3.1
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	11	24	1.6	0.12	40	0.66	0	0.0
Dry	3	159	2.0	0.30	268	4.39	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	56	24.1
Pools ≥1m deep:	1	0.4
Complex pools (LWD pieces ≥3):	22	9.5
Pool Frequency (channel widths/pool):	8.8	
Residual pool depth (avg)	0.47m	

STREAM SUMMARY

BEAVER CREEK

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	
130	2,325	2.7	0.32	6,102	5	25	54	15	1	0	130

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,509	24.7
Backwater Pools	37	0.6
Glide	146	2.4
Riffle	4,101	67.2
Rapid	0	0.0
Cascade	0	0.0
Step	40	0.7
Dry	268	4.4

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (7 transects)

Total hardwoods/1000 ft	1,263
Total conifers/1000 ft	148
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	0.1	1.9	0.1	3.0	0.1	3.7	0.4	8.6
15-30cm	0.0	2.6	0.9	4.7	1.0	3.0	1.9	10.3
30-50cm	0.0	1.1	0.0	0.3	0.1	0.3	0.1	1.7
50-90cm	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.1	5.7	1.0	8.0	1.3	7.0	0.8	6.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	87		90		90	
Shrub cover	44		34		32	
Grass/forb cover	52		50		49	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	38		92		100
High terrace	31		8		0	
Low terrace	31		0		0	
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 (%)	20		42		49	

Summary of Riparian Zone (0-30m) for all reaches (7 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	1,263
Total conifers/1000 ft	148
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	0.4	8.6
15-30cm	1.9	10.3
30-50cm	0.1	1.7
50-90cm	0.0	0.1
>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	
17	LF	1	HS	45.0	40	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	LF	2	HS	45.0	60	25	25	Conifer	0	0	0	0	0	
								Hardwood	6	3	0	0	0	ALDER, MYRTLE
17	LF	3	HS	50.0	80	15	85	Conifer	0	1	0	0	0	
								Hardwood	1	1	0	0	0	CEDAR, ALDER
17	RT	1	LT	0.0	85	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	6	0	0	0	ALDER
17	RT	2	HS	20.0	95	30	70	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	MYRTLE, ALDER, VINE
17	RT	3	HS	30.0	95	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
27	LF	1	HT	0.0	90	25	30	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	ALDER
27	LF	2	HS	20.0	85	30	30	Conifer	0	0	0	0	0	
								Hardwood	0	5	0	0	0	ALDER
27	LF	3	HS	45.0	90	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
27	RT	1	HS	55.0	90	15	85	Conifer	0	0	0	0	0	
								Hardwood	10	0	0	0	0	VINE MAPLE
27	RT	2	HS	30.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	2	5	0	0	0	ALDER, VINE MAPLE
27	RT	3	HS	30.0	90	0	30	Conifer	0	0	0	0	0	
								Hardwood	2	6	0	0	0	ALDER
44	LF	1	HT	0.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	ALDER
44	LF	2	HS	20.0	90	25	75	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	ALDER
44	LF	3	HS	40.0	90	25	75	Conifer	0	2	0	0	0	
								Hardwood	1	1	0	0	0	CEDAR, DOUG FIR, AL
44	RT	1	HS	40.0	95	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	MYRTLE
44	RT	2	HS	40.0	85	50	50	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	MYRTLE, VINE MAPLE
44	RT	3	HS	40.0	90	10	60	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	VINE MAPLE
61	LF	1	HT	0.0	95	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
61	LF	2	HS	60.0	100	30	20	Conifer	0	0	0	0	0	
								Hardwood	2	3	0	0	0	ALDER
61	LF	3	HS	60.0	100	10	60	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	VINE MAPLE, BIG LEA
61	RT	1	HS	50.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	2	1	1	1	0	ALDER, ELDERBERRY
61	RT	2	HS	50.0	90	80	20	Conifer	0	1	0	0	0	
								Hardwood	0	4	0	0	0	SPRUCE, ALDER
61	RT	3	HS	50.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
94	LF	1	HS	65.0	90	15	85	Conifer	1	0	0	0	0	
								Hardwood	1	2	1	0	0	DOUG FIR, ALDER, MY

94	LF	2	HS	70.0	95	15	85	Conifer	1	0	0	0	0	
								Hardwood	0	4	0	0	0	HEMLOCK, ALDER
94	LF	3	HS	70.0	100	20	50	Conifer	0	0	1	0	0	
								Hardwood	7	0	0	0	0	DOUG FIR, VINE MAPL
94	RT	1	LT	0.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
94	RT	2	HS	60.0	90	30	70	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	VINE MAPLE
94	RT	3	HS	60.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
119	LF	1	LT	0.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	0	0	ALDER
119	LF	2	HS	60.0	95	40	60	Conifer	0	0	0	0	0	
								Hardwood	1	3	1	0	0	ALDER
119	LF	3	HS	60.0	90	30	70	Conifer	0	0	0	0	0	
								Hardwood	5	1	0	0	0	VINE MAPLE, ALDER
119	RT	1	HT	0.0	90	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	2	0	0	ALDER
119	RT	2	HS	65.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	ALDER
119	RT	3	HS	65.0	85	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	4	1	0	0	ALDER
129	LF	1	LT	0.0	100	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	BIG LEAF MAPLE
129	LF	2	HT	0.0	100	10	20	Conifer	0	5	0	0	0	
								Hardwood	0	0	0	0	0	
129	LF	3	HS	40.0	95	10	20	Conifer	1	4	0	0	0	
								Hardwood	5	0	0	0	0	

