

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: 20.0 range: 20.0-20.0

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	830	3,352	0
Secondary	35	102	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>	
Width	3.7	Width	6.5		8.4		20.1
Depth	0.36	Height	0.4		0.8		1.4
		W:D ratio	17.0	Entrenchment	1.3		

Stream Flow Type: LF Water Temp: 10.0-10.0°C
 Avg. Unit Gradient: 1.7% Habitat Units/100m: 7.9

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	41%	Reach avg: 78%
Undercut Banks	16%	Range: 22-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	59	7.1
Volume (m ³)	63	7.6
Key pieces ($\geq 10m \times 0.6m$)	1	0.1

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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	12	1.6	0.20	20	0	80	10	10	0	0	0
GLIDE	4	90	4.3	0.23	403	0	15	33	51	1	0	0
POOL-LATERAL SCOUR	27	358	4.5	0.69	1,715	0	26	35	39	0	0	0
POOL-PLUNGE	1	16	6.9	0.90	112	0	40	40	20	0	0	0
RAPID/BOULDERS	7	95	2.8	0.09	268	6	7	12	80	0	0	0
RIFFLE	15	264	2.9	0.13	838	0	10	12	78	0	0	0
STEP/COBBLE	9	28	3.4	0.10	93	0	12	12	75	1	0	0
STEP/LOG	4	2	3.3	0.07	6	0	18	28	55	0	0	0
Total:	68	865	3.7	0.36	3,454	6	Avg:18	24	57	0	0	0

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	0	0	-	-	0	0.00	0	0.0
Scour Pools	28	374	4.6	0.69	1,827	52.88	0	0.0
Glides	4	90	4.3	0.23	403	11.66	0	0.0
Riffles	15	264	2.9	0.13	838	24.26	0	0.0
Rapids	7	95	2.8	0.09	268	7.75	6	2.2
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	13	30	3.3	0.09	100	2.88	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	28	32.4
Pools ≥1m deep:	3	3.5
Complex pools (LWD pieces ≥3):	4	4.6
Pool Frequency (channel widths/pool):	4.7	
Residual pool depth (avg)	0.54m	

STREAM SUMMARY

PETERSON CREEK (PRE 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
68	865	3.7	0.36	3,454	18	24	57	0	0	0	6

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,827	52.9
Backwater Pools	0	0.0
Glide	403	11.7
Riffle	838	24.3
Rapid	268	7.8
Cascade	0	0.0
Step	100	2.9
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	467
Total conifers/1000 ft	81
Total conifers >20" dbh/1000 ft	20
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	0.7	0.0	0.0	0.0	1.3	0.0	2.0
15-30cm	0.0	1.3	0.0	0.3	0.7	1.3	0.7	3.0
30-50cm	0.0	0.7	0.0	0.0	0.3	1.0	0.3	1.7
50-90cm	0.0	0.3	0.0	0.3	0.3	0.3	0.3	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.0	3.0	0.0	0.7	1.3	4.0	0.4	2.6

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	51		45		46	
Shrub cover	38		42		25	
Grass/forb cover	56		53		58	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		0		17
High terrace	100		100		83	
Low terrace	0		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 (%)	7		4		9	

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	467
Total conifers/1000 ft	81
Total conifers >20" dbh/1000 ft	20

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	0.0	2.0
15-30cm	0.7	3.0
30-50cm	0.3	1.7
50-90cm	0.3	1.0
>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	
8	LF	1	HT	8.0	5	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	2	HT	8.0	5	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	3	HT	8.0	5	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
8	RT	1	HT	2.0	90	50	40	Conifer	0	0	0	0	0	
								Hardwood	0	2	2	1	0	ALDER
8	RT	2	HT	1.0	85	90	5	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	1	0	ALDER
8	RT	3	HT	-1.0	85	95	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	1	0	ALDER
18	LF	1	HT	5.0	30	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	2	HT	3.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	MEADOW
18	LF	3	HT	4.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	1	HT	7.0	80	60	30	Conifer	0	0	0	0	0	
								Hardwood	1	2	0	0	0	
18	RT	2	HT	7.0	90	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	3	HS	35.0	90	20	10	Conifer	0	2	1	1	0	
								Hardwood	1	0	0	0	0	
30	LF	1	HT	3.0	5	95	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	LF	2	HT	3.0	5	95	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	LF	3	HT	3.0	10	10	70	Conifer	0	0	0	0	0	
								Hardwood	2	4	0	0	0	ALDER
30	RT	1	HT	15.0	95	10	80	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	ALDER
30	RT	2	HT	2.0	85	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	RT	3	HT	2.0	85	20	70	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	ALDER