

REACH SUMMARY

REACH # 1

T25S-R10W-S25SE

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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: 6.0 range: 5.0-7.0

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	505	3,246	0
Secondary	15	12	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.2	Width	11.5	14.4	23.1
Depth	0.43	Height	0.5	0.9	4.0
		W:D ratio	24.2	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 14.0-14.0°C
 Avg. Unit Gradient: 0.6% Habitat Units/100m: 2.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	D15	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 91%
Undercut Banks	0%	Range: 81-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	20	4.0
Volume (m ³)	15	3.0

Key pieces ($\geq 10\text{m} \times 0.6\text{m}$)

0

0.0

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
CASCADE/BOULDERS	1	15	0.8	0.10	12	0	0	10	29	39	19	4
POOL-LATERAL SCOUR	7	378	6.7	0.79	2,629	7	10	12	70	4	1	3
RAPID/BOULDERS	3	37	2.9	0.12	106	0	0	0	70	27	3	0
RIFFLE	4	91	5.6	0.12	512	0	0	0	35	5	3	58
Total:	15	520	5.2	0.43	3,258	7	Avg: 5	6	58	11	3	17

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	7	378	6.7	0.79	2,629	80.70	7	0.3
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	4	91	5.6	0.12	512	15.70	0	0.0
Rapids	3	37	2.9	0.12	106	3.24	0	0.0
Cascades	1	15	0.8	0.10	12	0.37	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	7	13.5
Pools $\geq 1m$ deep:	2	3.8
Complex pools (LWD pieces ≥ 3):	3	5.8
Pool Frequency (channel widths/pool):	6.4	
Residual pool depth (avg)	0.73m	

STREAM SUMMARY

FALL CREEK (PRE-TX)

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	
15	520	5.2	0.43	3,258	5	6	58	11	3	17	7

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	2,629	80.7
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	512	15.7
Rapid	106	3.2
Cascade	12	0.4
Step	0	0.0
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

REACH 0

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

Total hardwoods/1000 ft	1,240
Total conifers/1000 ft	163
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	0.3	3.7	0.3	10.0	0.3	1.0	1.0	14.7
15-30cm	0.0	3.3	0.7	1.0	0.7	0.7	1.3	5.0
30-50cm	0.0	0.7	0.3	0.0	0.0	0.0	0.3	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 ²	0.3	7.7	1.3	11.0	1.0	1.7	0.9	6.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	78		72		68	
Shrub cover	13		25		13	
Grass/forb cover	68		43		48	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		33		33
High terrace	67		50		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		17	
Riprap	0		0		0	
Surface slope (%)	37		30		25	

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	1,240
Total conifers/1000 ft	163
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	1.0	14.7
15-30cm	1.3	5.0
30-50cm	0.3	0.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 0

Reach 0

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	
3	LF	1	HT	10.0	80	10	80	Conifer	0	0	0	0	0	
								Hardwood	2	2	0	0	0	
3	LF	2	HT	20.0	80	20	60	Conifer	0	1	1	0	0	
								Hardwood	25	0	0	0	0	
3	LF	3	HT	0.0	100	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
3	RT	1	HT	20.0	80	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	2	2	0	0	
3	RT	2	RB	0.0	50	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
3	RT	3	HS	40.0	70	10	70	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	1	HT	10.0	80	10	30	Conifer	1	0	0	0	0	
								Hardwood	0	1	0	0	0	
8	LF	2	HT	5.0	100	0	40	Conifer	1	1	0	0	0	
								Hardwood	0	1	0	0	0	
8	LF	3	HT	10.0	100	0	50	Conifer	0	1	0	0	0	
								Hardwood	3	0	0	0	0	
8	RT	1	HS	50.0	80	20	80	Conifer	0	0	0	0	0	
								Hardwood	3	3	0	0	0	
8	RT	2	HS	50.0	70	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	
8	RT	3	RB	0.0	60	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
13	LF	1	HS	100.0	70	0	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	BLK TRACKS
13	LF	2	HS	100.0	60	50	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
13	LF	3	HS	100.0	80	60	30	Conifer	1	0	0	0	0	
								Hardwood	0	2	0	0	0	
13	RT	1	HT	30.0	80	20	60	Conifer	0	0	0	0	0	
								Hardwood	5	2	0	0	0	ALDER
13	RT	2	HT	5.0	70	50	20	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
13	RT	3	HT	0.0	0	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	FIELD FOR SCRAP WOO

