

REACH 1

T20S-R7W-S4

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

Valley Width Index avg: 4.8 range: 4.0-5.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	100		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	531	1,822	0
Secondary	63	232	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 3.8	5.7	13.1	6.1
Depth 0.16	Height 0.4	0.7	0.7
	W:D ratio 16.7	Entrenchment 2.2	

Stream Flow Type: MF Water Temp: 11.2-11.2°C
 Avg. Unit Gradient: 1.4% Habitat Units/100m: 7.7

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	3%	Reach avg: 64%
Undercut Banks	14%	Range: 47- 78

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	44	8.3
Volume (m ³)	42	7.9
Key pieces ($\geq 10m \times 0.6m$)	1	0.2

HABITAT UNIT SUMMARY

REACH 1	T20S-R7W-S4											REACH 1
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 UNITS	1	21	3.8	0.00	78	0	20	20	60	0	0	0
GLIDE	2	19	3.0	0.13	57	0	5	0	5	0	0	90
POOL-ISOLATED	1	3	1.0	0.15	3	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	14	213	3.7	0.43	768	11	17	10	8	3	2	60
PUDDLED CHANNEL	1	40	3.8	0.02	151	0	10	0	0	0	0	90
RIFFLE	12	244	3.7	0.07	795	56	0	5	12	15	7	61
RIFFLE W/ POCKETS	1	20	2.7	0.10	53	8	0	0	0	0	10	90
STEP/BEDROCK	8	21	4.1	0.02	80	0	0	0	4	9	0	88
STEP/BOULDERS	1	1	2.8	0.01	1	3	0	0	0	20	50	30
STEP/COBBLE	5	13	5.0	0.03	66	6	0	0	42	52	6	0
Total:	46	594	3.8	0.16	2,053	84	Avg: 8	5	12	12	4	58

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Wetted Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	1	3	1.0	0.15	3	0.15	0	0.0
Scour Pools	14	213	3.7	0.43	768	37.42	11	1.4
Glides	2	19	3.0	0.13	57	2.79	0	0.0
Riffles	13	264	3.6	0.07	848	41.31	64	7.5
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	14	35	4.4	0.02	148	7.19	9	6.1
Dry	2	60	3.8	0.01	229	11.14	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	15	25.3
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	1	1.7
Pool Frequency (channel widths/pool):	6.9	
Residual pool depth (avg)	0.39m	

STREAM SUMMARY

OXBOW 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	
46	594	3.8	0.16	2,053	8	5	12	12	4	58	84

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	768	37.4
Backwater Pools	3	0.1
Glide	57	2.8
Riffle	848	41.3
Rapid	0	0.0
Cascade	0	0.0
Step	148	7.2
Dry	229	11.1

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	1,524
Total conifers/1000 ft	81
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	8.7	0.0	5.0	0.0	4.3	0.0	18.0
15-30cm	0.0	1.7	0.0	1.3	0.0	2.7	0.0	5.7
30-50cm	0.0	1.3	0.3	0.0	1.0	0.0	1.3	1.3
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	11.7	0.3	6.3	1.0	7.0	0.4	8.3

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	(%)	(%)	(%)
Canopy closure	94	91	70
Shrub cover	54	26	18
Grass/forb cover	18	36	44

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	Hillslope	0	67
High terrace	50	17	0
Low terrace	50	17	17
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	17
Riprap	0	0	0
Surface slope (%)	0	23	32

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	1,524
Total conifers/1000 ft	81
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	0.0	18.0
15-30cm	0.0	5.7
30-50cm	1.3	1.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

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	
12	LF	1	LT	0.0	90	20	20	Conifer	0	0	0	0	0	
								Hardwood	6	2	0	0	0	ALDER, 60% BARE GRO
12	LF	2	HS	60.0	90	5	20	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	ALDER
12	LF	3	HS	60.0	90	5	20	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	BARE GROUND 75%, AL
12	RT	1	LT	0.0	95	100	0	Conifer	0	0	0	0	0	
								Hardwood	3	2	1	0	0	ALDER
12	RT	2	LT	0.0	100	70	0	Conifer	0	0	0	0	0	
								Hardwood	1	3	0	0	0	BARE GROUND, ALDER
12	RT	3	LT	0.0	60	50	40	Conifer	0	0	0	0	0	
								Hardwood	1	2	0	0	0	ROADBED BEHIND, BAR
20	LF	1	HT	0.0	100	5	5	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	BAREGROUND 90%, VIN
20	LF	2	HT	0.0	80	20	50	Conifer	0	0	1	0	0	
								Hardwood	3	0	0	0	0	
20	LF	3	RB	0.0	10	30	20	Conifer	0	0	1	0	0	
								Hardwood	3	0	0	0	0	DOUG FIR, VINE MAPL
20	RT	1	LT	0.0	95	70	20	Conifer	0	0	0	0	0	
								Hardwood	6	0	1	0	0	10% BARE GROUND, BE
20	RT	2	HS	45.0	95	10	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	80% BARE GROUND
20	RT	3	HS	60.0	100	5	40	Conifer	0	0	1	0	0	
								Hardwood	1	1	0	0	0	55% BARE GROUND, V.
33	LF	1	HT	0.0	100	50	50	Conifer	0	0	0	0	0	
								Hardwood	7	0	1	0	0	VINE MAPLE, ALDER
33	LF	2	HS	15.0	95	45	45	Conifer	0	0	0	0	0	
								Hardwood	10	0	0	0	0	VINE MAPLE
33	LF	3	HS	60.0	100	10	50	Conifer	0	0	0	0	0	
								Hardwood	4	5	0	0	0	40% BARE GROUND, MA
33	RT	1	HT	0.0	85	80	10	Conifer	0	0	0	0	0	
								Hardwood	1	1	1	0	0	10% BARE GROUND, AL
33	RT	2	HS	15.0	85	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	5% BARE GROUND, NO
33	RT	3	HS	10.0	60	10	95	Conifer	0	0	1	0	0	
								Hardwood	1	0	0	0	0	ROAD 10M AWAY



Name: GUNTER
 Date: 11/7/100
 Scale: 1 Inch equals 2000 feet

Location: 10 456927 E 4855029 N
 Caption: OXBOW CRREK RESTORATION SITE - SIUSLAW BASIN