

REACH 1

T02S-R03E-S18SE

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	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	40.0	VWI Range:	40 - 40

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	453	1,981	0
Secondary	8	9	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.5	Width	7.1	34.9	
Depth	0.63	Height	1.0	2.0	
		W:D ratio	7.2	Entrenchment	4.9
Stream Flow Type:	MF	Water temp (C):		15.0 - 15.0	
Avg. Unit Gradient:	0.2%	Habitat Units/100m:		4.4	

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	NU
Riparian Vegetation:	P	M1

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	2%	Reach avg: 82%
Undercut Banks:	8%	Range: 58 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	20	4.4
Volume (m ³):	8	1.8
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

RICHARDSON CREEK PRE-TX (L-158)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/9/02

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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	Cbl	Bldr	Bdrk	
POOL-BACKWATER	1	8	1.1	0.20	9	0	24	19	43	14	0	0	
POOL-LATERAL SCOUR	8	120	3.2	0.48	436	0	23	42	28	6	0	0	
POOL-STRAIGHT SCOUR	7	292	5.0	1.13	1,461	0	30	68	1	1	0	0	
RIFFLE	4	41	1.9	0.15	83	0	15	43	34	8	0	0	
Total:	20	462	3.5	0.63	1,990	0	Avg 24	50	21	5	0	0	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	1	8	1.1	0.20	9	0.46%	0	0.0	
Scour Pools	15	412	4.0	0.78	1,897	95.35%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	4	41	1.9	0.15	83	4.19%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>
All Pools:	16	35.3
Pools >=1m deep:	7	15.4
Complex pools (LWD pieces>=3):	2	4.4
Pool frequency (channel widths/pool):	4.1	
Residual pool depth (avg):	0.51	

RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000	691
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 ft	41
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	0.0	0.0	1.0	0.0	2.0	0.0	3.0
15-30cm	0.0	0.3	0.0	2.0	0.0	0.7	0.0	3.0
30-50cm	0.0	0.3	0.0	3.0	0.3	0.7	0.3	4.0
50-90cm	0.0	0.3	0.0	0.7	0.7	0.3	0.7	1.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	1.0	0.0	6.7	1.0	3.7	0.3	3.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	38		48		40	
Shrub cover	3		23		28	
Grass/forb cover	81		62		59	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		33		50	
High terrace	0		0		50	
Low terrace	0		0		0	
Floodplain	100		67		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	0		28		57	

RIPARIAN ZONE VEGETATION

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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	FP	0	45	0	100	Conifer							
								Hardwood							
3	LF	2	HS	110	65	10	85	Conifer							
								Hardwood		1	3	1			
3	LF	3	HS	200	70	15	30	Conifer					1		
								Hardwood	3	1					
3	RT	1	FP	-5	0	0	100	Conifer							
								Hardwood							
3	RT	2	FP	3	30	10	85	Conifer							PARTIAL HT
								Hardwood		2	3				
3	RT	3	HT	2	20	15	75	Conifer							
								Hardwood		1		1			
6	LF	1	FP	0	10	10	90	Conifer							
								Hardwood							
6	LF	2	HS	50	35	95	0	Conifer							
								Hardwood		1					
6	LF	3	HS	75	40	90	5	Conifer							
								Hardwood			1				
6	RT	1	FP	3	50	0	100	Conifer							
								Hardwood		1	1				
6	RT	2	FP	2	20	5	90	Conifer							PARTIAL HT
								Hardwood		1	1				
6	RT	3	HT	0	10	20	80	Conifer							
								Hardwood	2						
11	LF	1	FP	0	70	10	90	Conifer							
								Hardwood				1			
11	LF	2	FP	0	75	15	80	Conifer							
								Hardwood	3		2	1			
11	LF	3	HS	65	80	25	75	Conifer					1		RB JUST BEYOND
								Hardwood	1		1				
11	RT	1	FP	0	55	0	5	Conifer							
								Hardwood							
11	RT	2	FP	0	65	0	30	Conifer							
								Hardwood		1					
11	RT	3	HT	0	20	5	90	Conifer				1			
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 158 RICHARDSON CREEK PRE-TX (L-158)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	SP	00	50.2		START @ JUNC W/ CLAC	HAD TO SURVEY OUT OF CR
2	SP	00	100.4	BV,WL	TROUT, T=15C	NUTRIA, BEAVER SLIDES/HO
3	SP	00	162.8	WL	DEEPLY ENTRENCHED	SNAKE
4	SP	00	195.9			VERY DARK/SILTY WATER
5	SP	00	242.6			CAN'T SEE BOTTOM
6	SP	00	256.2		WATCH FOR BEAVER HO	
8	LP	00	315.9			YEALING TREES IN RIP
9	RI	00	324.3			START OF NORMAL CREEK
10	LP	00	352.4			TROUT
15	BW	10	408.5	WL		DEER, FROGS
19	LP	00	448.1			MAN MADE CANAL START IN
20	LP	00	453.3	TJ/	TJ/ END SURVEY	END SURVEY



Name: DAMASCUS
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 541223 E 5026859 N
 Caption: RICHARDSON CREEK RESTORATION SITE - CLACKAMAS BASIN