

REACH 1

T02S-R03E-S22NW

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	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index		VWI Range: -	

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	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	707	2,332	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 0	<u>First Terrace</u> n = 0
Width: 3.2	Width: ( - )	( - )	( - )
Depth: 0.53	Height: ( - )	( - )	( - )

W:D ratio: Entrenchment (ACW:FPW ratio):  
 Stream Flow Type: MF Habitat Units/100m (total channel length): 5.8  
 Average Unit Gradient: 0.3% Habitat Units/100m (primary channel length): 5.8  
 Water temperature (°C): 11.0 - 11.0

**Riparian, Bank, and Wood Summary**

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	30%	Reach avg: 57%
Undercut Banks:		Range: 42 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	174	24.6
Volume (m <sup>3</sup> ):	227	32.1
Key pieces (>=12m x 0.60m):	7	1.0

**OREGON DEPARTMENT OF FISH AND WILDLIFE CLACKAMAS SIDE CHANNEL LOWER (L-255)**

**HABITAT INVENTORY**

Report Date: 10/27/2004

Survey Date:

10/25/2004

REACH 1		T02S-R03E-S22NW					REACH 1						
HABITAT DETAIL													
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area						
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
GLIDE	1	50	4.5	0.40	225	0	20	30	25	20	5	0	
POOL-LATERAL SCOUR	26	523	3.5	0.74	1,759	8	28	46	12	13	0	0	
RIFFLE	4	87	2.5	0.19	230	1	11	27	29	32	1	0	
STEP/COBBLE	10	48	2.5	0.14	118	0	9	19	37	35	1	0	
<b>Total:</b>	41	707	3.2	0.53	2,332	9	<b>Avg:</b> 22	37	20	20	1	0	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	26	523	3.5	0.74	1,759	75.44%	8	0.5	
Glides	1	50	4.5	0.40	225	9.65%	0	0.0	
Riffles	4	87	2.5	0.19	230	9.84%	1	0.4	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	10	48	2.5	0.14	118	5.06%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	26	36.8	36.8
Pools >=1m deep:	2	2.8	2.8
Complex pools (LWD pieces>=3):	23	32.5	32.5
Pool frequency (channel widths/pool):			
Residual pool depth (avg):	0.56		

**OREGON DEPARTMENT OF FISH AND WILDLIFE CLACKAMAS SIDE CHANNEL LOWER (L-255)**

**HABITAT INVENTORY** Report Date: 10/27/2004

Survey Date: 10/25/2004

**RIPARIAN ZONE VEGETATION SUMMARY**

**REACH 1**

**REACH 1**

**Summary of Riparian Zone (0-30m) 4 transects**

Total hardwoods/1000	442
Total conifers/1000 ft	15
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	0.8	0.0	2.8	0.3	2.0	0.3	5.5
15-30cm	0.0	0.5	0.0	0.0	0.0	1.0	0.0	1.5
30-50cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
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/100m2	0.0	1.5	0.0	2.8	0.3	3.0	0.1	2.4

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	10		10		14	
Shrub cover	9		17		24	
Grass/forb cover	17		34		54	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	25		25		25	
High terrace	75		75		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		25	
Riprap	0		0		0	
Surface slope (%)	13		9		7	

**RIPARIAN ZONE VEGETATION**

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	RT	2	HS	10	0	0	0	Conifer							100 PERCENT DIRT
								Hardwood	3						
9	LF	1	HT	0	0	0	20	Conifer							80 PERCENT DIRT
								Hardwood							
9	LF	2	HT	3	0	10	90	Conifer							
								Hardwood	3						
9	RT	1	HS	15	0	0	0	Conifer							100 PERCENT DIRT
								Hardwood	2						
9	RT	3	HS	2	5	0	80	Conifer							20 PERCENT DIRT
								Hardwood	1	1					
9	LF	3	HT	3	4	10	90	Conifer							
								Hardwood	4						
19	LF	1	HT	10	0	0	5	Conifer							95 PERCENT DIRT
								Hardwood							
19	LF	2	HT	2	15	20	80	Conifer							
								Hardwood							
19	LF	3	HT	0	15	20	80	Conifer							
								Hardwood							
19	RT	1	HT	10	5	0	0	Conifer							100 PERCENT DIRT
								Hardwood	1						
19	RT	2	HT	0	0	0	10	Conifer							90 PERCENT DIRT
								Hardwood							
19	RT	3	RB	0	0	0	40	Conifer	1						60 PERCENT DIRT
								Hardwood							
29	RT	1	HT	10	15	5	70	Conifer							25 PERCENT DIRT
								Hardwood		1	1				
29	LF	2	HT	5	20	10	60	Conifer							30 PERCENT DIRT
								Hardwood	2						
29	RT	2	HT	10	0	0	10	Conifer							90 PERCENT DIRT
								Hardwood							
29	LF	1	HT	15	0	0	0	Conifer							100 PERCENT DIRT
								Hardwood							
29	LF	3	HT	0	40	40	60	Conifer							
								Hardwood	1	1					
29	RT	3	RB	3	0	0	40	Conifer							60 PERCENT DIRT
								Hardwood	2						
36	RT	2	HS	40	10	70	20	Conifer							10 PERCENT BARE
								Hardwood							

36	RT	3	HS	40	10	90	10	Conifer		
								Hardwood		
36	RT	1	HS	30	10	70	20	Conifer		10 PERCENT BARE
								Hardwood		
36	LF	3	HT	10	40	30	30	Conifer		40 PERCENT BARE
								Hardwood	2	
36	LF	2	HT	0	35	25	0	Conifer		75 PERCENT BARE
								Hardwood	3	
36	LF	1	HT	10	50	0	20	Conifer		80 PERCENT BARE
								Hardwood	1	

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L      SITE ID: 255      CLACKAMAS SIDE CHANNEL LOWE

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	GL	00	50		T=11 AT 9:40	START AT MOUTH, SIGN ON
2	RI	00	78.5	HS		
3	LP	00	106	HS x 3		SCOUR DEVELOPING
5	LP	00	133.6	HS x 3		LANDSCAPE CLOTH
7	LP	00	183.6	HS x 2		ACCESS POINT RIGHT
8	RI	00	201.6	HS		
9	LP	00	220.6	HS x 2		
10	LP	00	238.6	HS		ACCESS POINT RIGHT
11	LP	00	265.6	HS x 2		
12	LP	00	279.6	HS		
13	SC	00	282.6		H = 0.1	
14	LP	00	297.1	HS	SHINERS/DACE	SHINER FRY
15	SC	00	303.1	SS/		
16	LP	00	330.6	HS x 2		
18	LP	00	351.1	HS, SS/		
20	LP	00	366.6	HS	SHINERS/DACE	SMALL FISH
22	LP	00	386.1	HS		
23	LP	00	401.6	HS x 2		DACE
24	LP	00	412.1	HS		
26	LP	00	425.1	HS x 2		
28	LP	00	448.1	HS		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L      SITE ID: 255      CLACKAMAS SIDE CHANNEL LOWE

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
29	LP	00	475.1	HS x 3		
31	LP	00	492.1	HS	T = 12.5 AT 12:00	LOTS OF SMALL FISH
32	LP	00	522.1	RF, HS	ROAD FORD	GPS 0545354, 5025767
33	LP	00	540.1	HS, SS/		
35	LP	00	581.1	HSx3, SS/		
36	LP	00	612.6	HS x 3		FLOW IS DROPPING OFF
38	LP	00	650.1	HS x 3		
39	LP	00	668.1	HS		
40	LP	00	683.6	HS		VERY MUCKY
41	LP	00	707.1	HS x 2		TWO INLET PIPES, 0.3 DIA P