

REACH 1

T3S-R3E-22SW

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

Valley Width Index avg: 19.0 range: 15.0-20.0

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	559	1,800	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.9	Width	4.6	6.8	8.5
Depth	0.42	Height	0.4	1.0	1.5
		W:D ratio	12.6	Entrenchment	1.5

Stream Flow Type: MF Water Temp: 18.0-18.0°C  
 Avg. Unit Gradient: 0.7% Habitat Units/100m: 7.7

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 65%
Undercut Banks	8%	Range: 17-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	76	13.6
Volume (m <sup>3</sup> )	52	9.4
Key pieces (≥10m x 0.6m)	0	0.0

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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	Cbbl	Bldr	Bdrk
CULVERT CROSSING	1	14	1.0	0.14	14	0	0	33	67	0	0	0
GLIDE	2	32	3.1	0.30	112	0	15	50	35	0	0	0
POOL-BEAVER DAM	2	39	3.8	1.00	162	0	37	47	16	0	0	0
POOL-LATERAL SCOUR	23	320	3.5	0.54	1,171	0	14	49	35	0	0	2
RIFFLE	12	152	2.1	0.24	337	0	6	33	59	0	0	1
STEP/BEAVER DAM	1	0	1.8	0.01	0	0	40	60	0	0	0	0
STEP/COBBLE	1	2	1.8	0.15	4	0	5	19	76	0	0	0
STEP/LOG	1	0	3.1	0.03	0	0	6	28	67	0	0	0
<b>Total:</b>	<b>43</b>	<b>559</b>	<b>2.9</b>	<b>0.42</b>	<b>1,800</b>	<b>0</b>	<b>Avg:13</b>	<b>43</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>1</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	2	39	3.8	1.00	162	8.99	0	0.0
Scour Pools	23	320	3.5	0.54	1,171	65.05	0	0.0
Glides	2	32	3.1	0.30	112	6.20	0	0.0
Riffles	12	152	2.1	0.24	337	18.72	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	3	3	2.2	0.06	5	0.27	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	25	44.7
Pools ≥1m deep:	3	5.4
Complex pools (LWD pieces ≥3):	7	12.5
Pool Frequency (channel widths/pool):	4.9	
Residual pool depth (avg)	0.41m	

STREAM SUMMARY

MOSIER CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area					Total Large Boulder	
					S/O	Sand	Grvl	Cbbl	Bldr		Bdrk
43	559	2.9	0.42	1,800	13	43	42	0	0	1	0

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	1,171	65.0
Backwater Pools	162	9.0
Glide	112	6.2
Riffle	337	18.7
Rapid	0	0.0
Cascade	0	0.0
Step	5	0.3
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	1,646
Total conifers/1000 ft	0
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	7.7	0.0	9.7	0.0	4.0	0.0	21.3
15-30cm	0.0	1.3	0.0	3.0	0.0	0.0	0.0	4.3
30-50cm	0.0	0.7	0.0	0.7	0.0	0.0	0.0	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 <sup>2</sup>	0.0	9.7	0.0	13.3	0.0	4.0	0.0	9.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	36		30		31	
Shrub cover	48		61		63	
Grass/forb cover	53		39		28	

Predominant landform in each zone

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

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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	1,646
Total conifers/1000 ft	
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	21.3
15-30cm	0.0	4.3
30-50cm	0.0	1.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

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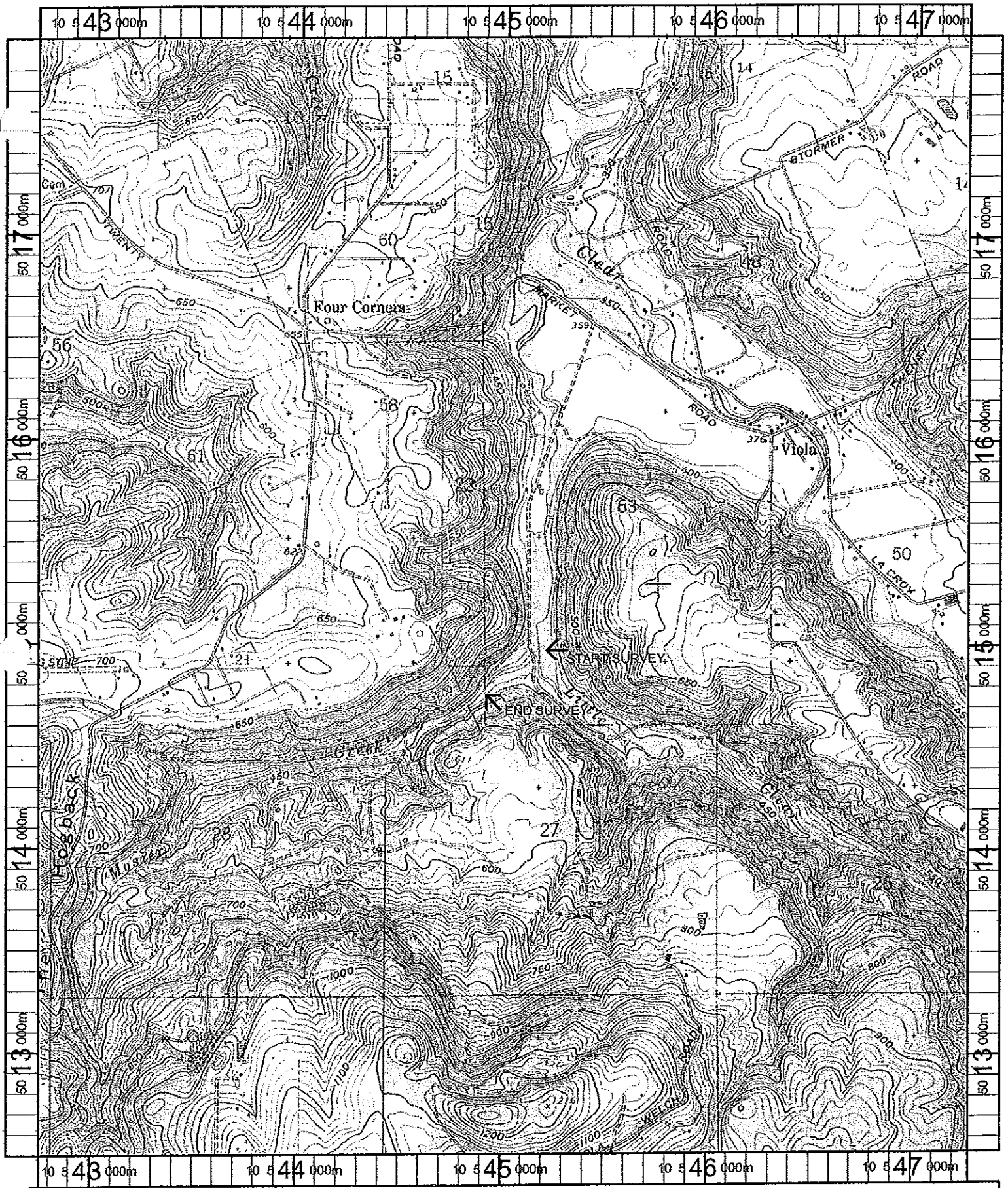
RIPARIAN ZONE VEGETATION

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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	
15	LF	1	LT	2.0	0	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	2	HT	2.0	0	35	65	Conifer	0	0	0	0	0	
								Hardwood	9	0	0	0	0	ALDER, GRASS, WILLO
15	LF	3	HT	2.5	15	60	40	Conifer	0	0	0	0	0	
								Hardwood	12	0	0	0	0	
15	RT	1	HT	1.0	55	30	70	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
15	RT	2	HT	1.0	60	80	20	Conifer	0	0	0	0	0	
								Hardwood	7	1	1	0	0	
15	RT	3	HT	1.0	60	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	IMPASSABLE BLACKBER
29	LF	1	HT	1.0	40	75	25	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
29	LF	2	HT	1.0	40	75	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	BLACKBERRY
29	LF	3	HT	1.0	40	75	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
29	RT	1	HT	1.0	30	45	55	Conifer	0	0	0	0	0	
								Hardwood	12	2	0	0	0	ALDERS, SEDGES, GRA
29	RT	2	HT	0.0	20	65	35	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	BLACKBERRY, GRASS
29	RT	3	HT	0.0	20	65	35	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
35	LF	1	HT	0.0	30	65	35	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
35	LF	2	HT	1.0	50	80	20	Conifer	0	0	0	0	0	
								Hardwood	3	7	1	0	0	
35	LF	3	HT	1.0	50	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
35	RT	1	HT	1.0	60	60	40	Conifer	0	0	0	0	0	
								Hardwood	2	2	2	0	0	
35	RT	2	HT	0.0	10	30	70	Conifer	0	0	0	0	0	
								Hardwood	5	1	0	0	0	
35	RT	3	RB	0.0	0	20	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	50% BARE



Name: REDLAND  
 Date: 10/23/100  
 Scale: 1 Inch equals 2000 feet

Location: 10 544900 E 5015226 N  
 Caption: MOSIER CREEK RESTORATION SITE - CLACKAMAS BASIN