

REACH 1

T19S-R08W-S28NW

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 7.3		VWI Range: 4.5 - 10	

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	522	3,289	0
Secondary	53	147	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.4	Width	11.2	14.4	18.3
Depth	0.29	Height	0.5	1.0	1.7
		W:D ratio	22.1	Entrenchment	1.3
Stream Flow Type:	LF	Water temp (C): 15.0 - 15.0			
Avg. Unit Gradient:	0.8%	Habitat Units/100m: 5.6			

**Riparian, Bank, and Wood Summary**

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	10%	Reach avg: 94%
Undercut Banks:	14%	Range: 73 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	28	5.4
Volume (m <sup>3</sup> ):	14	2.6
Key pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE    ESMOND CREEK (MIDDLE) PRE-TX (MC-138)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

6/25/02

REACH 1		T19S-R08W-S28NW					REACH 1						
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	2	57	6.7	0.18	371	0	5	5	3	3	0	85	
POOL-BACKWATER	1	6	3.5	0.60	22	0	40	20	20	0	0	20	
POOL-LATERAL SCOUR	6	173	5.9	0.66	1,036	23	35	12	20	2	3	27	
POOL-STRAIGHT SCOUR	3	98	8.5	0.53	841	30	12	9	28	3	6	41	
RAPID/BEDROCK	2	16	5.3	0.04	89	4	10	0	0	0	0	90	
RIFFLE	11	201	4.5	0.11	964	41	16	9	15	5	0	55	
STEP/BEDROCK	1	5	4.6	0.10	25	0	0	0	0	0	0	100	
STEP/COBBLE	2	11	5.1	0.15	61	0	37	16	38	10	0	0	
STEP/LOG	1	7	3.6	0.15	27	0	67	19	14	0	0	0	
<b>Total:</b>	<b>29</b>	<b>575</b>	<b>5.4</b>	<b>0.29</b>	<b>3,437</b>	<b>98</b>	<b>Avg 22</b>	<b>10</b>	<b>17</b>	<b>4</b>	<b>1</b>	<b>47</b>	

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	1	6	3.5	0.60	22	0.64%	0	0.0
Scour Pools	9	271	6.8	0.62	1,877	54.62%	53	2.8
Glides	2	57	6.7	0.18	371	10.81%	0	0.0
Riffles	11	201	4.5	0.11	964	28.06%	41	4.3
Rapids	2	16	5.3	0.04	89	2.60%	4	4.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	4	24	4.6	0.14	112	3.27%	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:	10	19.2
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	1	1.9
Pool frequency (channel widths/pool):	5.1	
Residual pool depth (avg):	0.52	

**RIPARIAN ZONE VEGETATION SUMMARY**

REACH 1	REACH 1
<b>Summary of Riparian Zone (0-30m)    3 transects</b>	
Total hardwoods/1000	1138
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	20
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	1.7	0.0	2.3	0.0	4.0	0.0	8.0
15-30cm	0.0	2.0	0.0	2.3	0.3	1.7	0.3	6.0
30-50cm	0.0	2.0	0.0	0.3	0.0	1.3	0.0	3.7
50-90cm	0.0	0.0	0.0	0.7	0.3	0.0	0.3	0.7
>90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Total/100m2	0.0	6.0	0.0	5.7	0.7	7.0	0.2	6.2

**Canopy closure and ground cover**

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Canopy closure	90	80	80
Shrub cover	83	72	77
Grass/forb cover	18	20	23

**Predominant landform in each zone**

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Hillslope	17	33	67
High terrace	83	50	33
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	17	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	3	5	10

**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		
8	LF	1	HT	0	90	60	40	Conifer							
								Hardwood	1		2				
8	LF	2	SC	0	90	20	30	Conifer							
								Hardwood		1					
8	LF	3	HS	14	80	70	30	Conifer					1		
								Hardwood							
8	RT	1	HT	0	90	75	25	Conifer							
								Hardwood		2	1				
8	RT	2	HS	8	90	50	50	Conifer							
								Hardwood	2		3				
8	RT	3	HS	8	100	60	40	Conifer							
								Hardwood	1		3				
18	LF	1	HT	0	90	90	10	Conifer							
								Hardwood	1		4				
18	LF	2	HT	0	100	90	10	Conifer							
								Hardwood				1	2		
18	LF	3	HT	0	90	80	20	Conifer							
								Hardwood		2	2				
18	RT	1	HT	0	90	90	10	Conifer							
								Hardwood			2				
18	RT	2	HT	0	90	90	10	Conifer							
								Hardwood			3				
18	RT	3	HS	14	100	70	30	Conifer							
								Hardwood	11		2				
25	LF	1	HT	0	100	100	0	Conifer							MAPLE
								Hardwood				1		1	
25	LF	2	HT	0	30	100	0	Conifer							
								Hardwood							
25	LF	3	HT	0	20	100	0	Conifer							
								Hardwood							
25	RT	1	HS	20	80	80	20	Conifer							
								Hardwood	3						
25	RT	2	HS	20	80	80	20	Conifer							
								Hardwood	5						
25	RT	3	HS	25	90	80	20	Conifer				1			
								Hardwood							

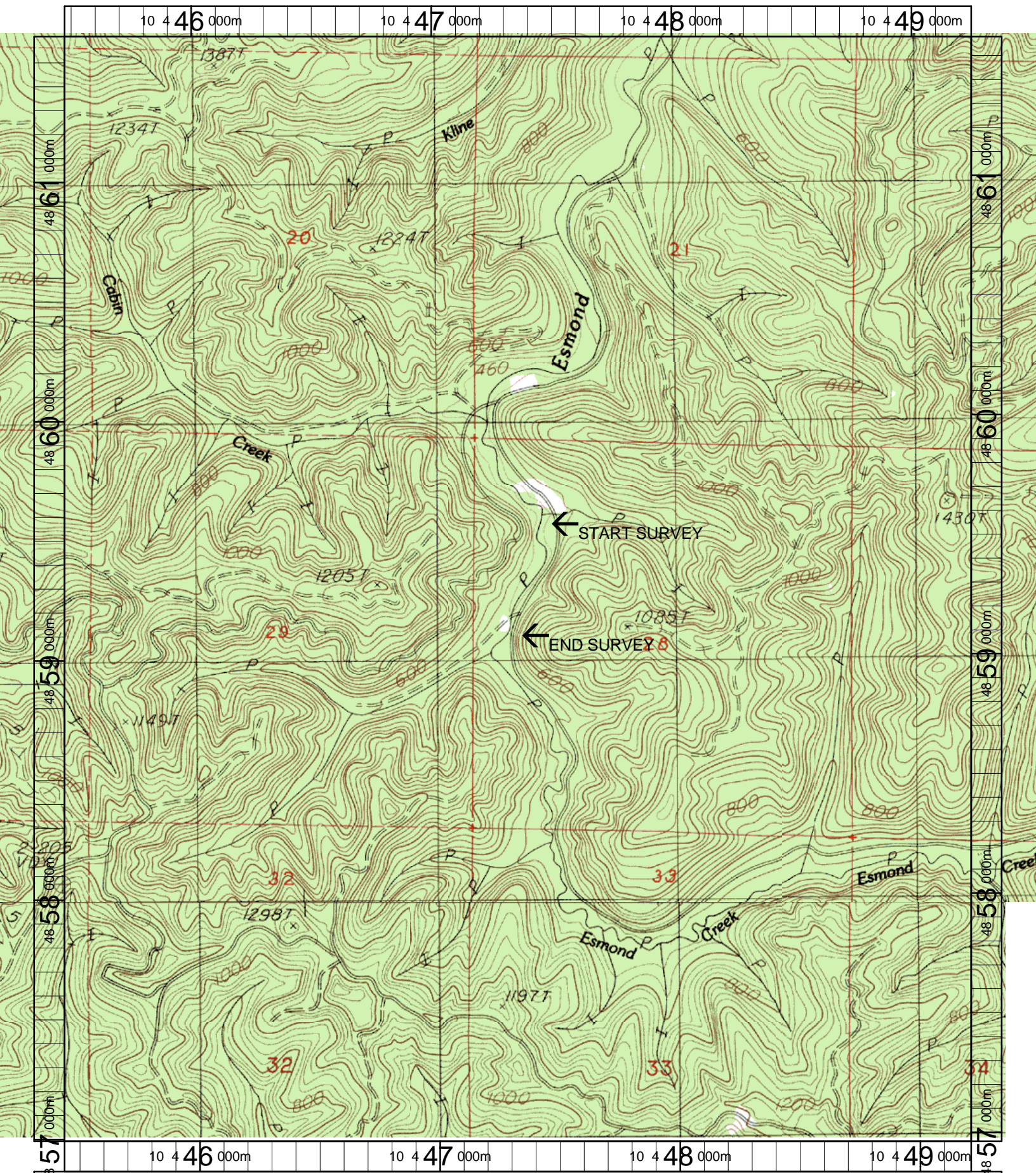
# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **138**      **ESMOND CREEK (MIDDLE) PRE-TX (**

<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	01	27	TJ/	TJ/ AT START T=14C	START SIGN ON RIGHT
2	RR	11	27		TRIB UNIT ACW=2, T=11C	TRIB UNIT
7	RI	01	114.8		RIP#1	
8	LP	01	160.8			RIP#1
9	RI	02	160.8	DJ		
13	SC	02	160.8			REJOINS MAIN CHANNEL
15	BW	10	198.7	DJ		CREATED BY DJ
17	LP	00	226.5		DEAD CRAYFISH	
18	GL	00	262.5		RIP#2	RIP#2
21	LP	00	306.1		ODFW FLAG "UNIT #290 6	
24	SP	00	390.3		RIP#3	6" FISH
25	RI	00	419.1			RIP#3
26	GL	00	440.1		DEAD CRAYFISH	
29	RI	00	522.1		END SURVEY	END SURVEY





Name: ROMAN NOSE MT  
 Date: 3/20/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 447338 E 4859290 N  
 Caption: ESMOND CREEK (MIDDLE) RESTORATION SITE -  
 SIUSLAW BASIN