

REACH 1

T19S-R08W-S16NE

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	12.0	VWI Range:	12 - 12

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	532	3,747	0
Secondary	19	56	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.8	Width	12.0	13.8	18.2
Depth	0.40	Height	0.5	1.0	1.8
		W:D ratio	23.2	Entrenchment	1.1
Stream Flow Type:	LF	Water temp (C):		14.0 - 14.0	
Avg. Unit Gradient:	0.4%	Habitat Units/100m:		4.3	

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	M30	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg: 92%
Undercut Banks:	15%	Range: 75 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	28	5.3
Volume (m <sup>3</sup> ):	30	5.7
Key pieces (>=10m x 0.60m):	3	0.6

**OREGON DEPARTMENT OF FISH AND WILDLIFE    ESMOND CREEK (LOWER) PRE-TX (MC-137)**

**HABITAT INVENTORY**

Report Date: 3/17/03

Survey Date:

6/24/02

<b>REACH 1</b>		<b>T19S-R08W-S16NE</b>					<b>REACH 1</b>					
<b>HABITAT DETAIL</b>												
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	30	9.0	0.30	266	1	0	0	30	20	0	50
POOL-ISOLATED	1	15	2.8	0.35	41	0	0	5	70	25	0	0
POOL-LATERAL SCOUR	10	371	7.4	0.72	2,876	34	0	4	34	10	2	51
RIFFLE	6	113	4.6	0.15	520	12	0	0	35	22	2	42
STEP/BEDROCK	1	5	1.8	0.10	8	0	0	0	0	0	0	100
STEP/COBBLE	4	18	4.5	0.09	93	11	0	0	63	15	3	20
<b>Total:</b>	<b>23</b>	<b>551</b>	<b>5.8</b>	<b>0.40</b>	<b>3,803</b>	<b>58</b>	<b>Avg 0</b>	<b>2</b>	<b>39</b>	<b>14</b>	<b>2</b>	<b>43</b>

<b>HABITAT SUMMARY</b>									
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	15	2.8	0.35	41	1.07%	0	0.0	
Scour Pools	10	371	7.4	0.72	2,876	75.62%	34	1.2	
Glides	1	30	9.0	0.30	266	6.98%	1	0.4	
Riffles	6	113	4.6	0.15	520	13.67%	12	2.3	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	5	23	3.9	0.09	101	2.66%	11	10.9	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

<b>POOL SUMMARY</b>		
	<u>Total</u>	<u># / Km</u>
All Pools:	11	20.7
Pools >=1m deep:	2	3.8
Complex pools (LWD pieces>=3):	3	5.6
Pool frequency (channel widths/pool):	4.2	
Residual pool depth (avg):	0.56	

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**HABITAT INVENTORY**    Report Date: 3/17/03

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**RIPARIAN ZONE VEGETATION SUMMARY**

**REACH 1** **REACH 1**

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

Total hardwoods/1000	1382
Total conifers/1000 ft	427
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	41

**Average number of trees in a 5-meter wide band**

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.7	5.3	1.7	4.0	2.0	9.7	4.3	19.0
15-30cm	0.0	1.7	0.3	0.0	0.3	0.3	0.7	2.0
30-50cm	0.0	0.7	0.7	0.0	0.3	0.7	1.0	1.3
50-90cm	0.0	0.3	0.0	0.0	0.3	0.0	0.3	0.3
>90cm	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Total/100m2	1.3	8.0	2.7	4.0	3.0	10.7	2.3	7.6

**Canopy closure and ground cover**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	88		63		65	
Shrub cover	42		40		38	
Grass/forb cover	58		55		52	

**Predominant landform in each zone**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	100		100		83	
Low terrace	0		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 (%)	4		0		0	

**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	
6	LF	1	HT	12	85	30	70	Conifer	1				1	DFIR
								Hardwood	4	1				
6	LF	2	HT	0	100	10	90	Conifer						
								Hardwood	4					
6	LF	3	HT	0	90	10	90	Conifer			1			DFIR
								Hardwood	3					
6	RT	1	HT	13	100	20	80	Conifer						
								Hardwood		1	1	1		
6	RT	2	HT	0	100	70	0	Conifer			1	2		
								Hardwood						
6	RT	3	HT	0	90	70	30	Conifer			1			
								Hardwood	2		1			
11	LF	1	HT	0	90	60	40	Conifer						
								Hardwood	4	2				
11	LF	2	HT	0	80	80	20	Conifer	1					
								Hardwood						
11	LF	3	HT	0	100	70	30	Conifer						
								Hardwood	9					
11	RT	1	HT	0	80	20	80	Conifer						
								Hardwood						
11	RT	2	HT	0	10	20	80	Conifer	3					
								Hardwood						
11	RT	3	HT	0	20	40	60	Conifer	1				1	
								Hardwood	9					
18	LF	1	HT	0	100	70	30	Conifer						
								Hardwood	5		1			
18	LF	2	HT	0	90	40	60	Conifer						
								Hardwood	8					
18	LF	3	RB	0	80	15	20	Conifer	1					PARTIAL HT
								Hardwood	6	1	1			
18	RT	1	HT	0	70	50	50	Conifer	1				1	DFIR
								Hardwood	3	1				
18	RT	2	HT	0	0	20	80	Conifer	1					
								Hardwood						
18	RT	3	HT	0	10	20	80	Conifer	4					
								Hardwood						

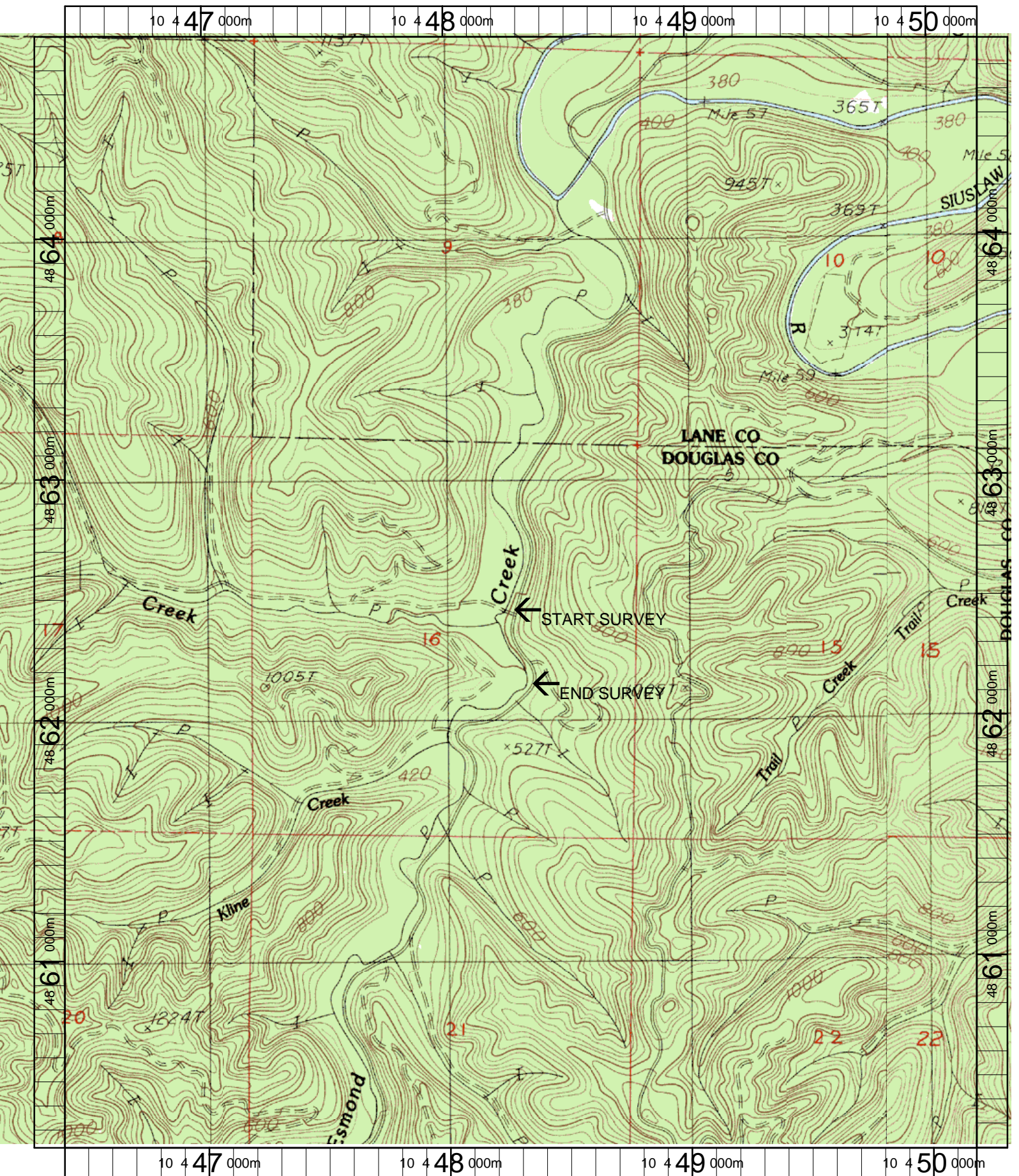
# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **137**      **ESMOND CREEK (LOWER) 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	LP	00	54.2	BC	START SURVEY T=13C@	START SURVEY, DEAD CRA
3	LP	00	119.8	/SS		
4	RI	01	136.1	/SS		
5	IP	10	136.1	WL		RSN, COHO JUV.
6	LP	00	172.1		RIP#1	FLAG "UNSA REDD 5-25-01"
8	LP	01	221.9	/TJ	TJ	SALMON SPAWNING SIGN
9	SC	11	221.9		LEOPOLD CREEK	LEOPOLD CREEK
10	SC	00	225.6	WL		KINGFISHER
11	GL	00	255.1	WL	RIP#2	RED SQUIRREL
12	LP	00	295.4		T=14.5C	SALMONIDS
14	LP	00	331.1			REDD FLAG
17	RI	00	394		RIP#3	
19	RI	00	450.9	SS/		
20	LP	00	463.3	SS/		
23	LP	00	531.9	SS/	END SURVEY	END SURVEY





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

Location: 10 448303 E 4862522 N  
 Caption: ESMOND CREEK (LOWER) RESTORATION SITE -  
 SIUSLAW BASIN