

ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT

STREAM: Esmond Creek Middle (MC-138)
BASIN: Siuslaw River
SURVEY TYPE: Post-Tx
DATE: February 10, 2004
SURVEY CREW: April Waters, Jim Andrews
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 44.9 km²
USGS MAPS: Roman Nose Mtn.
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Esmond Creek habitat survey extended 536 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 7.0 (range: 5.0-9.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.9 percent. Riffles (60%) and scour pools (20%) dominated stream habitat. Bedrock (37%) and sand (22%) dominated stream substrate. Wood volume was low at 18.1 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

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

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/10/2004

REACH 1

T19S-R08W-S28NW

REACH 1

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
CASCADE/BEDROCK	1	4	2.0	0.05	8	0	5	9	9	5	5	68
GLIDE	2	57	8.3	0.55	470	0	5	30	22	12	2	29
POOL-ALCOVE	1	16	2.0	1.10	32	0	0	89	5	5	0	0
POOL-LATERAL SCOUR	6	142	5.2	0.95	842	0	7	36	14	4	7	31
RAPID/BEDROCK	1	32	10.0	0.30	320	0	0	0	8	4	21	67
RIFFLE	10	255	7.5	0.33	1,915	0	3	11	27	9	5	45
RIFFLE W/ POCKETS	3	72	8.8	0.63	648	0	8	15	16	17	34	10
STEP/BEDROCK	1	3	9.0	0.15	23	0	0	0	5	5	0	90
STEP/LOG	1	8	2.0	0.40	16	0	28	44	22	6	0	0
Total:	26	588	6.7	0.54	4,273	0	Avg: 5	22	19	8	9	37

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	16	2.0	1.10	32	0.75%	0	0.0
Scour Pools	6	142	5.2	0.95	842	19.70%	0	0.0
Glides	2	57	8.3	0.55	470	10.99%	0	0.0
Riffles	13	327	7.8	0.40	2,563	59.98%	0	0.0
Rapids	1	32	10.0	0.30	320	7.49%	0	0.0
Cascades	1	4	2.0	0.05	8	0.19%	0	0.0
Step/Falls	2	11	5.5	0.28	39	0.91%	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:	7	11.9	53
Pools >=1m deep:	5	8.5	
Complex pools (LWD pieces>=3):	3	5.1	
Pool frequency (channel widths/pool):	7.6		
Residual pool depth (avg):	0.58		

STREAM SUMMARY

ESMOND CREEK MIDDLE POST-TX (MC-138)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
26	588	6.7	0.54	4,273	5	22	19	8	9	37	

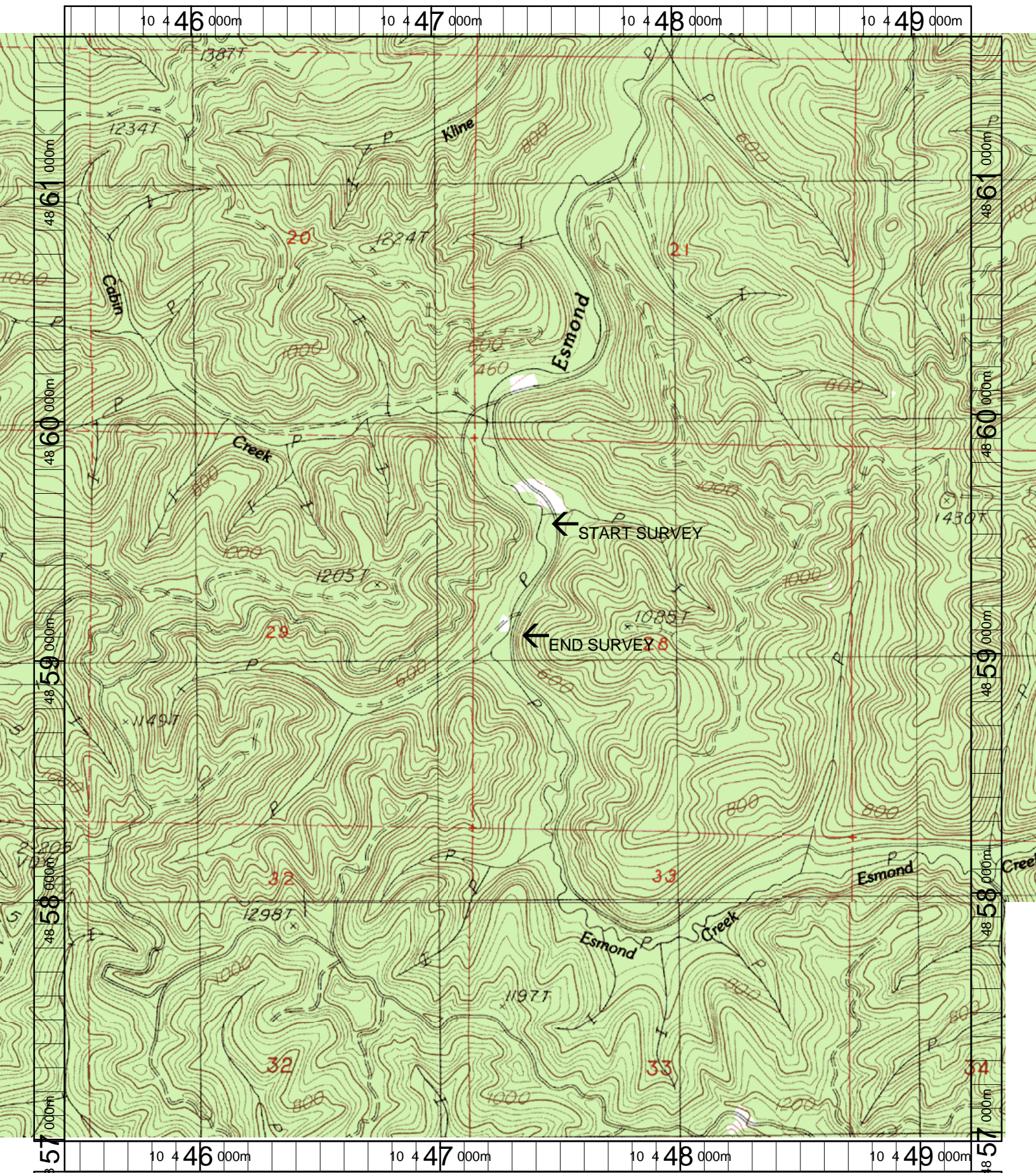
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	32	0.75%
Scour Pools	842	19.70%
Glides	470	10.99%
Riffles	2,563	59.98%
Rapids	320	7.49%
Cascades	8	0.19%
Step/Falls	39	0.91%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **138** **ESMOND CREEK MIDDLE POST-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	RP	01	27	HS, TJ/	T=8C/1200	
2	CR	11	27		ACW=2.3, T=8C	
9	SL	02	152.2	DJ		
10	LP	02	152.2	SS/		
11	LP	01	175.6	DJ	12.5M WETTED	
12	AL	10	175.6	WL	NEWTS, COHO, EGG SAC	
13	LP	00	200.1	HS	CARCASS	
14	LP	00	228.7	HS		
16	RI	00	288.7	HS		
17	RP	00	310.7		9M WETTED WIDTH	
18	RI	00	342.7		SG=5M	
20	RI	00	402.7	BV		
22	RI	00	450.7	/SS		
23	RP	00	474	BV, HS, BC		
26	RI	00	535.8		EOS, T=7C/1320	



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