

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

STREAM: Eames Creek (MC-177)  
BASIN: Siuslaw River  
SURVEY TYPE: Pre-Tx  
DATE: March 8, 2004  
SURVEY CREW: Jim Andrews, April Waters  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 15.7 km<sup>2</sup>  
USGS MAPS: High Point  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Eames Creek habitat survey extended 556 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 10.0. Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (55%) and riffles (20%) dominated stream habitat. Bedrock (64%) dominated stream substrate. Wood volume was low at 19.4 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T19S-R06W-S07NE

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	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	10.0	VWI Range:	10 - 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	556	3,753	0
Secondary	18	32	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 6.0	Width: 7.1	8.0 ( 6.3 - 10.2 )	11.1 ( 8 - 14.5 )
Depth: 0.46	Height: 0.4	0.7 ( 0.7 - 0.8 )	1.0 ( 0.85 - 1.1 )

W:D ratio: 19.8  
Stream Flow Type: MF  
Avg. Unit Gradient: 0.8%

Entrenchment (ACW:FPW ratio): 1.1  
Water temp (°C): 8.5 - 8.5  
Habitat Units/100m: 6.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	M15	S

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	88	15.8
Volume (m <sup>3</sup> ):	108	19.4
Key pieces (>=10m x 0.60m):	8	1.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

EAMES CREEK PRE-TX (MC-177)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/8/2004

REACH 1		T19S-R06W-S07NE					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	
CASCADE/BEDROCK	1	3	0.3	0.05	1	0	10	0	0	0	0	0	90
CASCADE/BOULDERS	1	6	1.3	0.20	8	0	5	0	5	86	5	0	0
POOL-BACKWATER	1	6	3.0	0.30	18	0	16	74	11	0	0	0	0
POOL-DAMMED	3	74	7.2	0.83	590	0	2	10	30	2	0	0	56
POOL-ISOLATED	1	3	2.0	0.30	5	0	80	20	0	0	0	0	0
POOL-LATERAL SCOUR	11	273	6.9	0.70	1,871	0	4	14	20	3	1	58	0
POOL-PLUNGE	2	25	8.5	0.80	219	0	2	10	4	1	2	83	0
RAPID/BEDROCK	3	39	3.6	0.17	189	0	0	2	0	2	0	97	0
RIFFLE	6	128	6.1	0.27	778	0	1	4	9	6	2	78	0
STEP/BEDROCK	2	10	7.0	0.23	67	0	0	0	3	3	0	95	0
STEP/LOG	4	10	6.9	0.21	70	0	1	9	34	3	0	53	0
<b>Total:</b>	<b>35</b>	<b>576</b>	<b>6.0</b>	<b>0.46</b>	<b>3,815</b>	<b>0</b>	<b>Avg: 5</b>	<b>10</b>	<b>15</b>	<b>5</b>	<b>1</b>	<b>64</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	5	83	5.3	0.62	613	16.07%	0	0.0	
Scour Pools	13	298	7.1	0.72	2,090	54.79%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	6	128	6.1	0.27	778	20.39%	0	0.0	
Rapids	3	39	3.6	0.17	189	4.96%	0	0.0	
Cascades	2	9	0.8	0.13	9	0.23%	0	0.0	
Step/Falls	6	20	6.9	0.22	136	3.57%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	# / Km	
All Pools:	18	31.4	18
Pools >=1m deep:	2	3.5	
Complex pools (LWD pieces>=3):	8	14.0	
Pool frequency (channel widths/pool):	4.5		
Residual pool depth (avg):	0.49		

**STREAM SUMMARY**

**EAMES CREEK PRE-TX (MC-177)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
35	576	6.0	0.46	3,815	5	10	15	5	1	64	

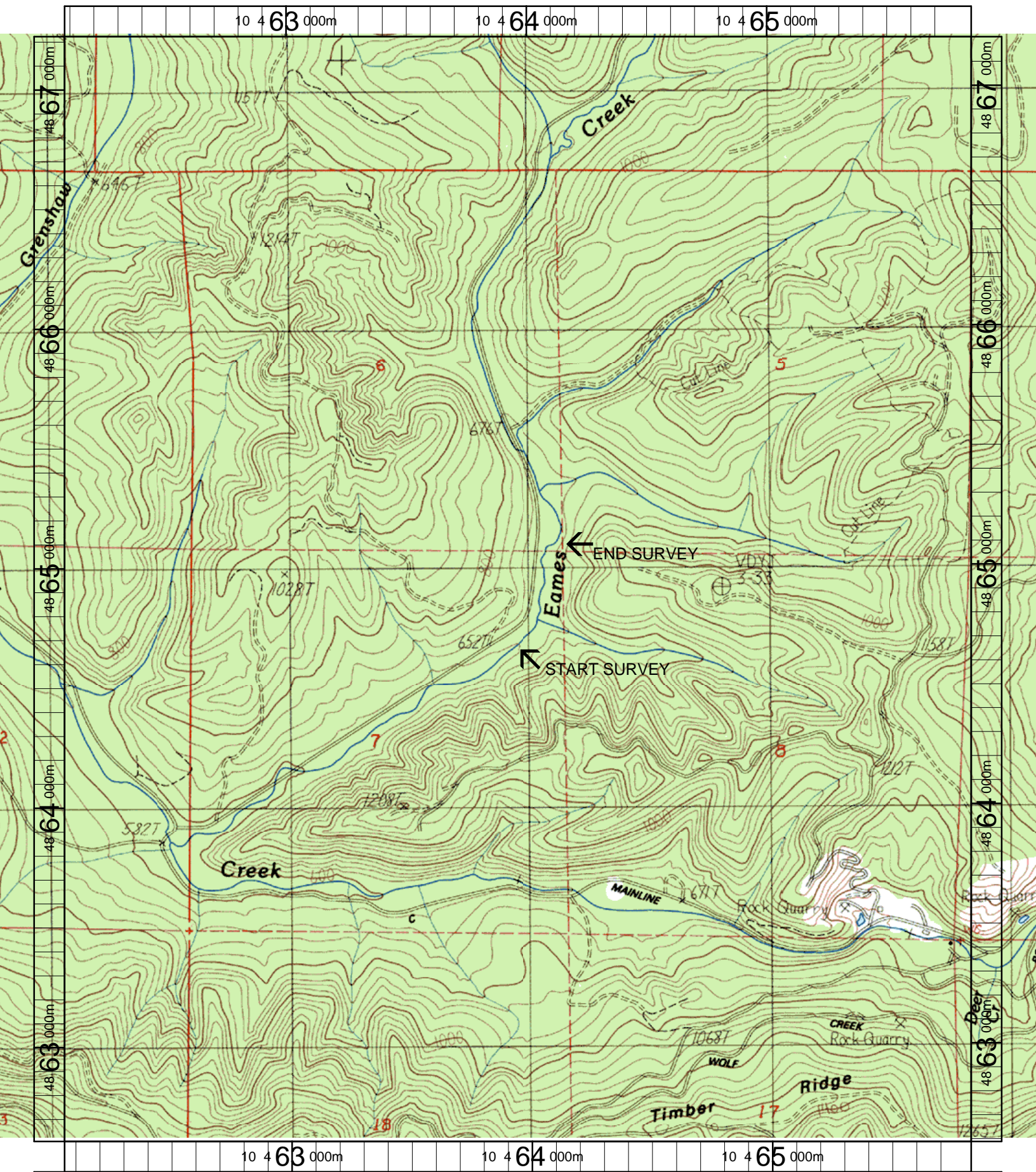
Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	613	16.07%
Scour Pools	2,090	54.79%
Glides	0	0.00%
Riffles	778	20.39%
Rapids	189	4.96%
Cascades	9	0.23%
Step/Falls	136	3.57%
Dry	0	0.00%
Culverts	0	0.00%

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **177**      **EAMES CREEK PRE-TX (MC-177)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	PP	01	16.3	TJ/		
2	CR	11	16.3		T=10C, ACW=.4	
3	SR	00	19.8		H=.5M	
5	SR	00	34.8		H=.4M	
6	RI	00	45.1	BV		
7	LP	00	66.1		FISH	
10	SL	00	103.1		H=.2M	
11	LP	01	128.9	/TJ	FISH	
12	CB	11	128.9		ACW=1.6M	
15	LP	00	217.7		FISH	
16	SL	00	220.7	DJ	H=.2M	
19	RI	00	266.5	BV		
20	SL		266.5	DJ	H=.7M	
21	DP	00	307.3	/SS		
22	LP	00	347.3	DJ	MOSTLY SM PCS	
24	SL	00	370.7	DJ	H=.45M	
25	DP	00	397.1		FISH	
30	RI	01	481.2	/TJ		
31	RR	01	483.2		ACW=.8, T=9.7C	
34	IP	10	536	WL	NEWT	
35	LP	00	555.5		EOS, T=9C/12:18	



Name: HIGH POINT  
 Date: 6/11/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 463947 E 4864909 N  
 Caption: EAMES CREEK RESTORATION SITE - SIUSLAW BASIN