

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

STREAM: Wright Creek (MC-179)  
BASIN: Yaquina River  
SURVEY TYPE: Post-Tx  
DATE: February 4, 2004  
SURVEY CREW: April Waters, Jim Andrews  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 16.8 km<sup>2</sup>  
USGS MAPS: Toledo South  
ECOREGION: Coast Range Sitka Spruce

**GENERAL DESCRIPTION:**

The Wright Creek habitat survey extended 514 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 4.7 (range: 3.3-5.8). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.5 percent. Riffles (49%) and scour pools (48%) dominated stream habitat. Gravel (54%) and sand (34%) dominated stream substrate. Wood volume was moderate at 25.1 m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures during the survey.

REACH 1

T12S-R10W-S06NW

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	4.7	VWI Range:	3.3 - 5.8

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	514	3,269	0
Secondary	23	13	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 5.6	Width: 8.5	23.2 ( 10.1 - 40.1 )	25.8 ( 11.2 - 43.1 )
Depth: 0.73	Height: 0.6	1.2 ( 1.1 - 1.4 )	1.6 ( 1.3 - 1.9 )

W:D ratio: 14.7  
Stream Flow Type: MF  
Avg. Unit Gradient: 0.5%

Entrenchment (ACW:FPW ratio): 2.8  
Water temp (°C): 9.0 - 9.0  
Habitat Units/100m: 5.6

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	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):	85	16.5
Volume (m <sup>3</sup> ):	129	25.1
Key pieces (>=10m x 0.60m):	9	1.8

OREGON DEPARTMENT OF FISH AND WILDLIFE

WRIGHT CREEK POST-TX (MC-179)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/4/2004

REACH 1

T12S-R10W-S06NW

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/BOULDERS	1	6	0.5	0.05	3	0	60	40	0	0	0	0
POOL-DAMMED	1	19	4.4	1.90	83	0	10	85	5	0	0	0
POOL-LATERAL SCOUR	13	252	6.5	1.13	1,589	0	3	39	50	6	2	0
RAPID/BOULDERS	1	6	0.4	0.03	2	0	60	40	0	0	0	0
RIFFLE	13	253	6.1	0.40	1,604	0	4	23	73	0	0	0
STEP/LOG	1	1	0.4	0.03	0	0	60	40	0	0	0	0
<b>Total:</b>	30	537	5.6	0.73	3,282	0	<b>Avg:</b> 9	34	54	3	1	0

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	19	4.4	1.90	83	2.52%	0	0.0
Scour Pools	13	252	6.5	1.13	1,589	48.42%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	13	253	6.1	0.40	1,604	48.88%	0	0.0
Rapids	1	6	0.4	0.03	2	0.07%	0	0.0
Cascades	1	6	0.5	0.05	3	0.09%	0	0.0
Step/Falls	1	1	0.4	0.03	0	0.01%	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:	14	26.1	23
Pools >=1m deep:	12	22.3	
Complex pools (LWD pieces>=3):	9	16.8	
Pool frequency (channel widths/pool):	4.5		
Residual pool depth (avg):	0.85		

**STREAM SUMMARY**

**WRIGHT CREEK POST-TX (MC-179)**

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	
30	537	5.6	0.73	3,282	9	34	54	3	1	0	

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	83	2.52%
Scour Pools	1,589	48.42%
Glides	0	0.00%
Riffles	1,604	48.88%
Rapids	2	0.07%
Cascades	3	0.09%
Step/Falls	0	0.01%
Dry	0	0.00%
Culverts	0	0.00%

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC**      SITE ID: **179**      WRIGHT CREEK POST-TX (MC-179)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
2	RI	00	45.5		SG=4M	
3	LP	00	56.3	HS	SG=2M	
4	LP	00	75.2		SALMONID BONES	
5	RI	00	95.3		SG=8M	
6	LP	00	114.9	HS, DJ		
7	LP	00	130	DJ		
8	RI	01	155	TJ/		
9	RI	11	155		ACW=.9M, T=9.5C	
10	LP	00	182.8		SG=6M	
12	LP	00	211.2		SALMON CARCASS	
13	RI	00	228.7		1M DEEP POCKET	
14	LP	00	243.2	HS	SG=4M, COHO CARCASS	
15	RI	00	262.6		SG=2M	
17	RI	00	307.4		SG=4M	
18	LP	00	325.6		SG=4M	
19	RI	00	335.6		SG=4M	
20	LP	00	349.6	HS		
21	RI	00	381.6	WL	ELK TRACKS	
23	LP	00	430.8	BC, CS	SG=4M, STEEL+WD BRID	
24	RI	00	441.9		SG=10M	
26	RI	01	485.9	/TJ		

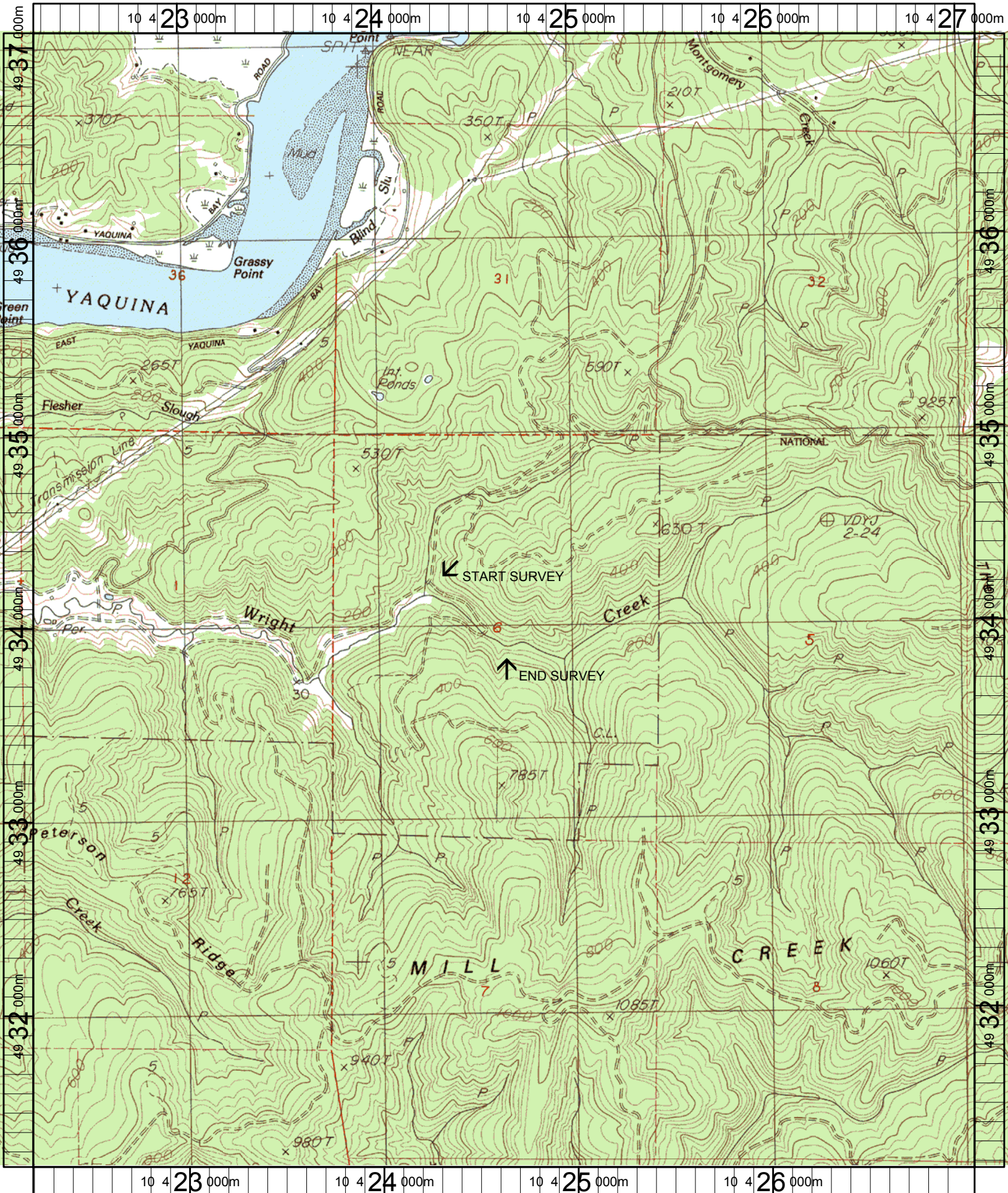
# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 2-MC      SITE ID: 179      WRIGHT CREEK POST-TX (MC-179)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
27	SL	11	485.9	/SS	H=.4M, ACW=.5M, T=9C	
29	CB	12	485.9		ACW=.55M	
30	LP	01	514	/TJ, HS	EOS, T=9C, SG=4M	





Name: TOLEDO SOUTH  
 Date: 7/22/2004  
 Scale: 1 inch equals 2000 feet

Location: 10 424645 E 4934125 N  
 Caption: WRIGHT CREEK RESTORATION SITE - YAQUINA BASIN