

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

STREAM: Myrtle Creek (MS-144)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: March 10, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 184.6 km²
USGS MAPS: Powers
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Myrtle Creek habitat survey extended 500 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 2.8 (range: 1.2-3.9). Land use for the reach was timber harvest and rural residential. The average unit gradient was 0.7 percent. Riffles (60%) and scour pools (38%) dominated stream habitat. Gravel (45%) and sand (25%) dominated stream substrate. Wood volume was low at 14.0 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.

REACH 1

T30S-R11W-S09NE

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	2.8	VWI Range:	1.2 - 3.9

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	500	8,686	0
Secondary	45	211	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 14.6	Width: 22.3	25.1 (16 - 33)	39.8 (26 - 58)
Depth: 0.80	Height: 1.5	3.0 (3 - 3)	7.5 (6 - 8)

W:D ratio: 14.9
Stream Flow Type: MF
Avg. Unit Gradient: 0.7%

Entrenchment (ACW:FPW ratio): 1.1
Water temp (°C): 10.0 - 10.0
Habitat Units/100m: 3.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	RR
Riparian Vegetation:	M30	M15

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):	34	6.8
Volume (m ³):	70	14.0
Key pieces (>=10m x 0.60m):	5	1.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

MYRTLE CREEK POST-TX (MS-144)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/10/2004

REACH 1

T30S-R11W-S09NE

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
POOL-BACKWATER	1	12	3.0	0.70	36	0	10	19	5	10	29	29
POOL-LATERAL SCOUR	4	210	14.2	1.60	3,387	0	0	46	39	9	4	3
RIFFLE	12	304	17.6	0.63	5,351	0	0	19	55	12	9	5
STEP/COBBLE	1	8	5.0	0.30	40	0	0	10	30	55	5	0
STEP/STRUCTURE	2	11	8.0	0.50	83	0	0	28	25	8	40	0
Total:	20	545	14.6	0.80	8,897	0	Avg: 0	25	45	13	12	5

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	12	3.0	0.70	36	0.40%	0	0.0
Scour Pools	4	210	14.2	1.60	3,387	38.07%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	12	304	17.6	0.63	5,351	60.14%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	3	19	7.0	0.43	123	1.39%	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:	5	9.2	45
Pools >=1m deep:	3	5.5	
Complex pools (LWD pieces>=3):	3	5.5	
Pool frequency (channel widths/pool):	4.9		
Residual pool depth (avg):	1.18		

STREAM SUMMARY

MYRTLE CREEK POST-TX (MS-144)

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	
20	545	14.6	0.80	8,897	0	25	45	13	12	5	

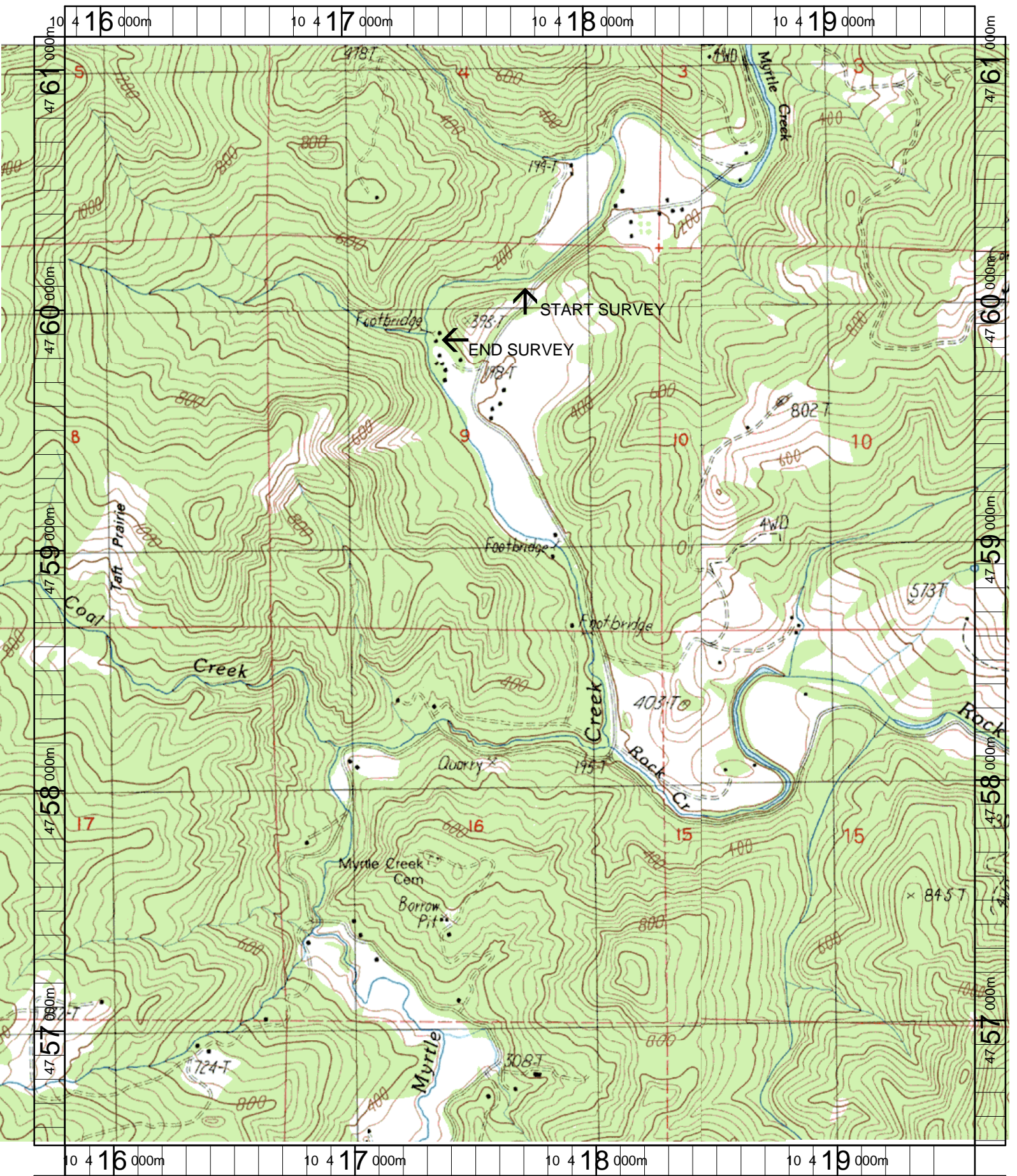
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	36	0.40%
Scour Pools	3,387	38.07%
Glides	0	0.00%
Riffles	5,351	60.14%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	123	1.39%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 3-MS SITE ID: 144 MYRTLE CREEK POST-TX (MS-144)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	25		T=10C	
6	RI	00	152		SG=15M	
7	LP	01	225	BV	LAMPREY CARCASS	
8	BW	10	225	HS	3 LOGS, 20 BLDRS	
10	LP	00	292	/SS	SALMON CARCASS	
11	RI	01	319	HS	6 LOGS, 20 BLDRS	
16	RI	00	349		SG=50M	
17	RI	00	374	/SS	SG=20M	
19	RI	00	424		SG=30M	



Name: POWERS
 Date: 3/21/2003
 Scale: 1 inch equals 1666 feet

Location: 10 417706 E 4758813 N
 Caption: MYRTLE CREEK RESTORATION SITE - COQUILLE BASIN