

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

STREAM: Beaver Creek Lower (L-202)
BASIN: Sandy River
SURVEY TYPE: Pre-Tx
DATE: January 28, 2004
SURVEY CREW: Jim Andrews, April Waters
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 32.8 km²
USGS MAPS: Camas
ECOREGION: Willamette Valley Plains

GENERAL DESCRIPTION:

The Beaver Creek habitat survey extended 488 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 20.0. Land use for the reach was urban. The average unit gradient was 0.2 percent. Scour pools (79%) and riffles (21%) dominated stream habitat. Sand (60%) and fines (33%) dominated stream substrate. Wood volume was very low at 4.7 m³/100m.

COMMENTS:

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

The crew noted beaver activity during the survey.

REACH 1

T01N-R03E-S25SE

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	20.0	VWI Range:	20 - 20

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	488	4,191	0
Secondary	12	8	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 7.4	Width: 9.4	22.9 (14.3 - 34.5)	27.5 (22.1 - 38)
Depth: 1.48	Height: 1.6	3.2 (2.5 - 4.2)	5.2 (3.6 - 9.5)

W:D ratio: 6.3
Stream Flow Type: MF
Avg. Unit Gradient: 0.2%

Entrenchment (ACW:FPW ratio): 2.5
Water temp (°C): 7.1 - 7.1
Habitat Units/100m: 2.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	UR	
Riparian Vegetation:	S	D15

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):	29	5.9
Volume (m ³):	23	4.7
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

BEAVER CREEK LOWER PRE-TX (L-202)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

1/28/2004

REACH 1

T01N-R03E-S25SE

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-LATERAL SCOUR	8	375	8.9	2.16	3,328	0	34	61	5	1	0	0
RIFFLE	6	126	5.3	0.57	871	0	33	60	8	0	0	0
Total:	14	500	7.4	1.48	4,199	0	Avg: 33	60	6	0	0	0

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	0	0			0	0.00%	0	0.0
Scour Pools	8	375	8.9	2.16	3,328	79.26%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	6	126	5.3	0.57	871	20.74%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	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:	8	16.0
Pools >=1m deep:	8	16.0
Complex pools (LWD pieces>=3):	3	6.0
Pool frequency (channel widths/pool):	6.6	
Residual pool depth (avg):	1.30	

STREAM SUMMARY

BEAVER CREEK LOWER PRE-TX (L-202)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (#>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
14	500	7.4	1.48	4,199	33	60	6	0	0	0	

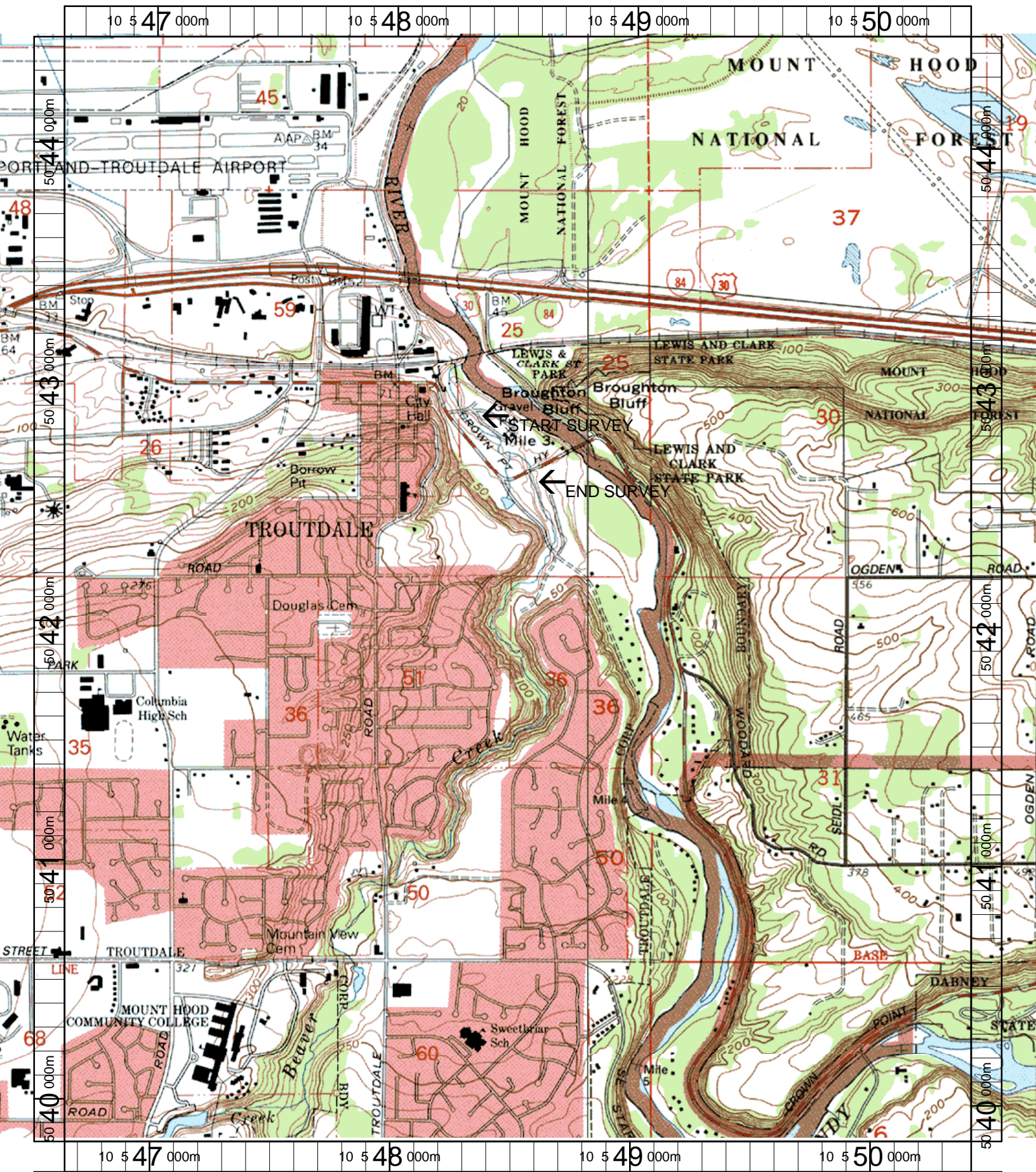
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	0	0.00%
Scour Pools	3,328	79.26%
Glides	0	0.00%
Riffles	871	20.74%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	0	0.00%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 7-L SITE ID: 202 BEAVER CREEK LOWER PRE-TX (L-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	51	BV,BC,/TJ	T=7.5C/0909	
2	RI	11	51		TRIB T=7.7C	
3	LP	00	182		/TJ	
4	RI	11	182		TRIB T=7.8C, ACW=1.1M	
5	LP	00	214	BV		
6	LP	00	239	BV		
7	RI	00	264	BV		
8	RI	00	292	BV		
9	LP	00	337	BV		
10	LP	00	369.3	BV		
12	RI	00	417.9	BC,CS,BV		
14	LP	00	488.1	/SS	T=7.1C, EOS	



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

Location: 10 548511 E 5042149 N
 Caption: BEAVER CREEK LOWER RESTORATION SITE - SANDY RIVER BASIN