

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

STREAM: Bald Peter Creek Upper (W-197)
BASIN: South Santiam River
SURVEY TYPE: Pre-Tx
DATE: February 25, 2004
SURVEY CREW: Jim Andrews, April Waters
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 28.8 km²
USGS MAPS: Keel Mtn.
ECOREGION: Cascades Western Central

GENERAL DESCRIPTION:

The Bald Peter Creek habitat survey extended 537 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.2 (range: 1.5-5.3). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 3.3 percent. Rapids (37%), scour pools (22%) and cascades (22%) dominated stream habitat. Cobble (41%) and boulders (31%) dominated stream substrate. Wood volume was low at 18.6 m³/100m.

COMMENTS:

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

REACH 1

T12S-R02E-S06NE

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	3.2	VWI Range:	1.5 - 5.3

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	537	3,486	0
Secondary	55	164	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 5.9	Width: 8.7	12.9 (9.2 - 17.8)	15.2 (9.4 - 22)
Depth: 0.53	Height: 0.5	1.1 (1 - 1.2)	1.3 (1.15 - 1.7)

W:D ratio: 16.7 Entrenchment (ACW:FPW ratio): 1.5
 Stream Flow Type: MF Habitat Units/100m (total channel length): 6.1
 Average Unit Gradient: 3.3% Habitat Units/100m (primary channel length): 6.7
 Water temperature (°C): 6.1 - 6.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
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 primary channel</u>
All pieces (>=3m x 0.15m):	111	20.7
Volume (m ³):	100	18.6
Key pieces (>=12m x 0.60m):	5	0.9

OREGON DEPARTMENT OF FISH AND WILDLIFE BALD PETER CREEK UPPER PRE-TX (W-197)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/25/2004

REACH 1

T12S-R02E-S06NE

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/BOULDERS	7	129	6.4	0.55	807	0	3	4	10	33	48	2
POOL-BACKWATER	2	10	2.8	0.50	25	0	5	32	7	43	12	0
POOL-LATERAL SCOUR	10	141	5.8	0.85	812	0	4	13	20	34	24	6
RAPID/BOULDERS	11	211	6.2	0.38	1,366	0	0	3	12	50	33	1
RIFFLE	4	73	5.7	0.24	473	0	11	18	11	47	14	0
RIFFLE W/ POCKETS	1	26	5.5	0.50	143	0	0	10	10	62	19	0
STEP/BOULDERS	1	3	8.0	0.20	24	0	0	0	5	25	70	0
Total:	36	592	5.9	0.53	3,650	0	Avg: 3	9	13	41	31	2

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	2	10	2.8	0.50	25	0.68%	0	0.0
Scour Pools	10	141	5.8	0.85	812	22.25%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	5	99	5.6	0.29	616	16.89%	0	0.0
Rapids	11	211	6.2	0.38	1,366	37.41%	0	0.0
Cascades	7	129	6.4	0.55	807	22.12%	0	0.0
Step/Falls	1	3	8.0	0.20	24	0.66%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

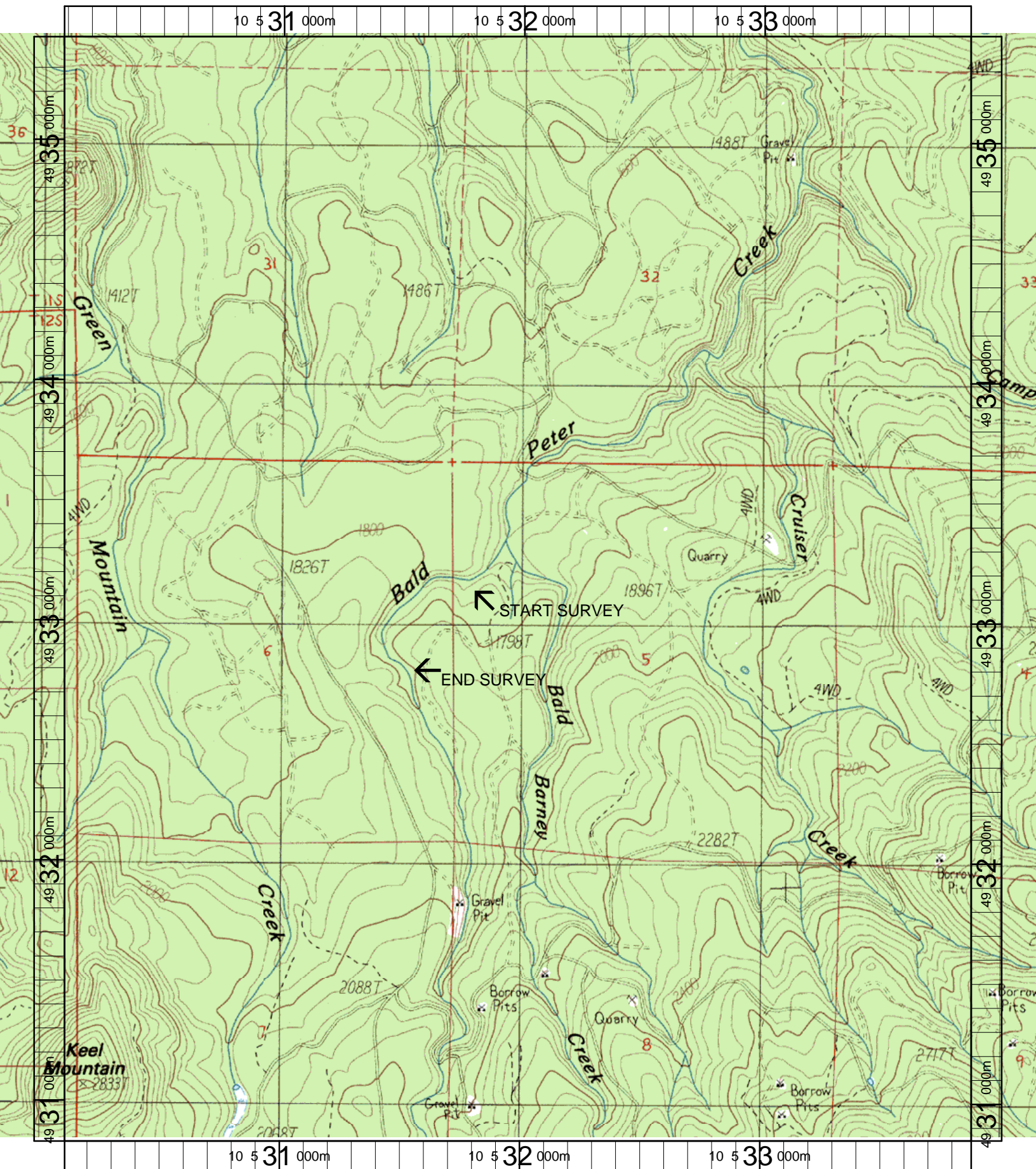
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	12	20.3	22.3
Pools >=1m deep:	2	3.4	3.7
Complex pools (LWD pieces>=3):	4	6.8	7.4
Pool frequency (channel widths/pool):	5.6		
Residual pool depth (avg):	0.58		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **8-W** SITE ID: **197** **BALD PETER CREEK UPPER PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RB	00	25			START T=6.5 C @ 15:05
2	RB	01	52			LEFT CHANNEL 70% FLO
3	RB	01	70.5	DJ		
5	LP	02	70.5			BDRCK 5% HARDPAN & 5
9	RI	00	128.6			METRIC @ START
13	LP	00	187	SS/		
18	RI	00	268.5			METRIC @ START; WW=7
19	CB	01	289.9	/SS		
20	BW	10	289.9	DJ		LEFT SIDE
22	RB	01	318.4	TJ/		
23	RI	11	318.4			T=7 C @ 16:30; ACW=1.3
26	RB	00	361.4	DJ		METRIC @ END; WW=9 M
28	RP	00	400.4			0.6-0.7 M DEEP POCKETS
31	RB	00	436.9			0.6 M DEEP
36	CB	00	537.4	/SS		END T=6.1 C @ 17:11



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

Location: 10 531977 E 4933141 N
 Caption: BALD PETER CREEK UPPER RESTORATION SITE -
 SOUTH SANTIAM BASIN