

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

STREAM: Bummer Creek (MC-9)
BASIN: Alsea River
SURVEY TYPE: Post-Tx
DATE: July 2, 2003
SURVEY CREW: Carmen Vandyke, Brock Jonasson
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 34.6 km²
USGS MAPS: Prairie Peak
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Bummer Creek habitat survey extended 455 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 8.5 (range: 5.4-10.0). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 3.0 percent. Rapids (57%) and riffles (28%) dominated stream habitat. Cobble (33%) and boulders (25%) dominated stream substrate. Wood volume was high at 36.4 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.

OREGON DEPARTMENT OF FISH AND WILDLIFE

BUMMER CREEK POST-TX (MC-9)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

7/2/03

REACH 1		T14S-R08W-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-BACKWATER	2	9	1.5	0.25	15	4	30	43	10	13	5	0	
POOL-LATERAL SCOUR	5	48	5.0	0.65	244	8	7	16	21	27	11	18	
POOL-STRAIGHT SCOUR	2	20	5.3	0.53	106	7	5	17	15	32	29	3	
RAPID/BOULDERS	15	334	4.2	0.14	1,380	103	0	9	22	36	31	1	
RIFFLE	6	116	5.8	0.15	692	26	0	12	20	36	25	8	
Total:	30	527	4.5	0.26	2,437	148	Avg 3	14	20	33	25	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	2	9	1.5	0.25	15	0.60%	4	27.6	
Scour Pools	7	68	5.1	0.61	350	14.38%	15	4.3	
Glides	0	0			0	0.00%	0	0.0	
Riffles	6	116	5.8	0.15	692	28.41%	26	3.8	
Rapids	15	334	4.2	0.14	1,380	56.62%	103	7.5	
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:	9	17.1
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	3	5.7
Pool frequency (channel widths/pool):	6.7	
Residual pool depth (avg):	0.51	

STREAM SUMMARY

BUMMER CREEK POST-TX (MC-9)

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	
30	527	4.5	0.26	2,437	3	14	20	33	25	5	148

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	(m ²)	Percent
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Scour Pools	350	14.38%
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Rapids	1,380	56.62%
Cascades	0	0.00%
Step/Falls	0	0.00%
Dry	0	0.00%
Culverts	0	0.00%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	1443
Total conifers/1000 ft	488
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.7	0.7	0.7	4.0	5.0	3.3	6.3	8.0
15-30cm	1.0	3.0	0.0	4.7	0.0	2.0	1.0	9.7
30-50cm	0.7	2.3	0.0	0.3	0.0	1.3	0.7	4.0
50-90cm	0.0	0.3	0.0	0.7	0.0	0.7	0.0	1.7
>90cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Total/100m2	2.3	6.3	0.7	10.0	5.0	7.3	2.7	7.9

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	93		83		1227	
Shrub cover	55		58		43	
Grass/forb cover	38		37		40	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	17		17		50	
High terrace	83		83		50	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	7		5		15	

Summary of Riparian Zone (0-30m) for all reaches 3 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	1443
Total conifers/1000 ft	488
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3 <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	6.3	8.0
15-30cm	1.0	9.7
30-50cm	0.7	4.0
50-90cm	0.0	1.7
>90cm	0.0	0.3

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

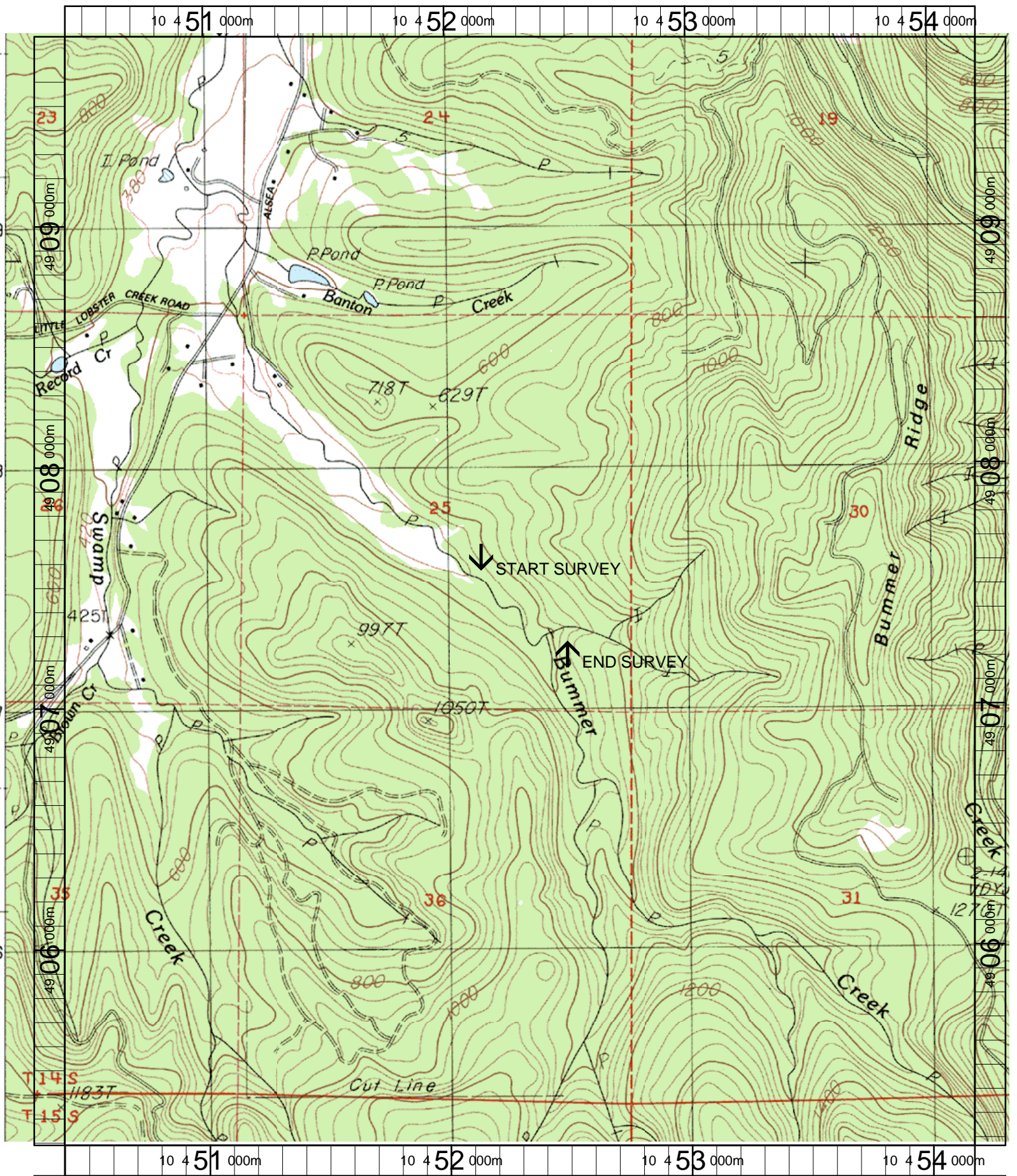
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
11	LF	2	HT	0	60	20	80	Conifer							
								Hardwood	3	1	1				
11	LF	3	HT	0	20	10	90	Conifer							MEADOW
								Hardwood	3						
11	RT	1	HT	0	95	70	30	Conifer							DAMN NETTLES
								Hardwood	1	3	2	1			
11	RT	2	HT	0	95	50	50	Conifer							
								Hardwood	6	2					
11	RT	3	HS	45	70	70	20	Conifer	6						
								Hardwood	5		1				
11	LF	1	HT	0	95	30	60	Conifer		3	2				
								Hardwood							
21	RT	1	HT	0	90	80	20	Conifer	1						
								Hardwood		1					
21	LF	1	HS	40	95	30	50	Conifer							
								Hardwood	1	2	2				
21	LF	3	HS	35	60	10	40	Conifer	8						REPROD.
								Hardwood							
21	RT	2	HT	0	90	70	20	Conifer							
								Hardwood		6					
21	RT	3	HT	0	90	70	20	Conifer							
								Hardwood		4	1				
21	LF	2	HS	30	75	60	30	Conifer	2						
								Hardwood	3	2					
26	LF	2	HT	0	90	80	20	Conifer							
								Hardwood		1		1			
26	LF	1	HT	0	90	90	10	Conifer							
								Hardwood		3	1				
26	LF	3	HS	10	70	30		Conifer	1						
								Hardwood		2	1				
26	RT	2	HT	0	90	70	20	Conifer							
								Hardwood		2		1	1		
26	RT	3	HT	0	60	70	30	Conifer							
								Hardwood	2		1	2			
26	RT	1	HT	0	90	30	60	Conifer	1						
								Hardwood			2				

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **2-MC** SITE ID: **9** **BUMMER CREEK POST-TX (MC-9)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	LP	00	7.2		START	START SURVEY
2	RB	00	20.6		VW=91.3	FISH
4	RI	00	48.3	WL		TRACKS
5	LP	00	58.6	WL		COHO RSN
6	RB	00	72.4			COHO
7	SP	01	84.3	DJ, HS		
10	RB	00	134.3			10X2 POOL .3 DEEP OFF TO
11	RI	00	149.3	WL	VW=70	TRAILS, RIP#1
12	LP	01	157.2	DJ, HS		FISH
14	LP	01	189.8	SS/ DJ		
15	RI	01	203.4	DJ		
17	RB	02	213.7	DJ		MESS OF WOOD
19	RI	01	262.7	HS, DJ		
20	BW	10	262.7			COHO
21	RI	00	281		VW=66.8	RIP #2
24	RI	01	358.4	TJ/		
26	RB	00	383.9	WL		RIP #3 TRAILS
27	RB	00	408.9	WL	VW=99.3	RSN
30	SP	00	454.6		VW=37.8	END SURVEY



Name: PRAIRIE PEAK
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 452295 E 4907480 N
 Caption: BUMMER CREEK RESTORATION SITE - ALSEA BASIN