ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	Big Tom Folley Creek Phase 3 (U-245)
BASIN:	Umpqua River
SURVEY TYPE:	Post-Tx
DATE:	March 29, 2006
SURVEY CREW:	Brian Cannon, Jon Nott
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	57.4 km^2
USGS MAPS:	Putnam Valley
ECOREGION:	Coast Range Sedimentary

GENERAL DESCRIPTION:

The Big Tom Folley Creek habitat survey extended 1,969 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.9 (range: 1.7-5.0). Land use for the reach was large (30-50 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 1.3 percent. Riffles (41%) and scour pools (37%) dominated stream habitat. Bedrock (31%), gravel (22%) and sand (20%) dominated stream substrate. Wood volume was low at 9.0 m^3/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

This stream was primarily treated with boulders.

OREGON DEPT OF FISH AND WILDLIFE BIG TOM FOLLEY CR PHASE 3 POST-TX (4-UMP, 245)

HABITAT INVENTORY Report Date: 12/6/2006 Survey Date: 3/29/2006

REACH 1 **T21S-R07W-S36NE** **REACH 1**

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 3.9 VWI Range: 1.7 - 5

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length (m)	Area (m2)	Dry Units
Primary Channel	1,969	16,312	0
Secondary Channel	27	141	0
Off-Channel Units	64	78	0

Channel Dimensions (m)

Wetted		Active		Floodprone *n* = 7	First Terrace *n* = 5
Width:	7.3	Width:	10.8	20.6 (15.5 - 24.5)	22.9 (18 - 27)
Depth:	0.48	Height:	0.7	1.4 (1.3 - 1.4)	1.7 (1.6 - 1.8)

W:D ratio: 15.7
Entrenchment (ACW:FPW ratio): 1.9
Stream Flow Type: MF
Habitat Units/100m (total channel length): 3.6
Average Unit Gradient: 1.3%
Habitat Units/100m (primary channel length): 3.8
Water temperature (°C): 10.0 - 10.0

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	LT	YT
Riparian Vegetation:	D30	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	208	10.6
Volume (m^3):	177	9.0
Key pieces (>=12m x 0.60m):	1	0.1

OREGON DEPT OF FISH AND WILDLIFE BIG TOM FOLLEY CR PHASE 3 POST-TX (4-UMP, 245)

HABITAT INVENTORY Report Date: 12/6/2006 Survey Date: 3/29/2006

REACH 1 **T21S-R07W-S36NE** **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	6	34	0.9	0.07	29	0		7	13	42	26	3	10
GLIDE	3	89	7.8	0.40	697	0		0	15	10	8	10	57
POOL-BACKWATER	2	8	1.2	0.23	9	0		18	55	20	8	0	0
POOL-ISOLATED	1	5	2.0	0.35	10	0		20	80	0	0	0	0
POOL-LATERAL SCOUR	25	710	8.5	0.84	6,144	0		2	37	18	11	5	28
RAPID/BEDROCK	5	178	8.3	0.35	1,514	0		0	8	9	3	12	68
RAPID/BOULDERS	6	161	6.8	0.30	1,158	0		0	7	38	23	18	15
RIFFLE	19	845	7.9	0.34	6,734	0		0	12	27	16	7	37
STEP/BEDROCK	1	7	6.5	0.20	42	0		0	0	0	0	5	95
STEP/BOULDERS	5	24	8.8	0.33	192	0		0	4	9	13	57	17
STEP/LOG	1	0	8.0	0.10	2	0		0	16	24	24	16	20
Total:	74	2,061	7.3	0.48	16,531	0	**Avg:**	2	21	22	14	10	31

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders (# / $100m^2$)
Dammed & BW Pools	3	13	1.4	0.27	19	0.12%	0	0.0
Scour Pools	25	710	8.5	0.84	6,144	37.17%	0	0.0
Glides	3	89	7.8	0.40	697	4.22%	0	0.0
Riffles	19	845	7.9	0.34	6,734	40.73%	0	0.0
Rapids	11	339	7.5	0.32	2,672	16.16%	0	0.0
Cascades	6	34	0.9	0.07	29	0.17%	0	0.0
Step/Falls	7	31	8.4	0.28	237	1.43%	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 Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	28	13.6	14.2
Pools >=1m deep:	2	1.0	1.0
Complex pools (LWD pieces>=3):	13	6.3	6.6
Pool frequency (channel widths/pool):	6.8		
Residual pool depth (avg):	0.52		

Comment Summary
Restoration Monitoring Sites 2006

MONITORING AREA: **4-UMP** **SITE ID:** **245** **BIG TOM FOLLEY CR PHASE 3 POST**

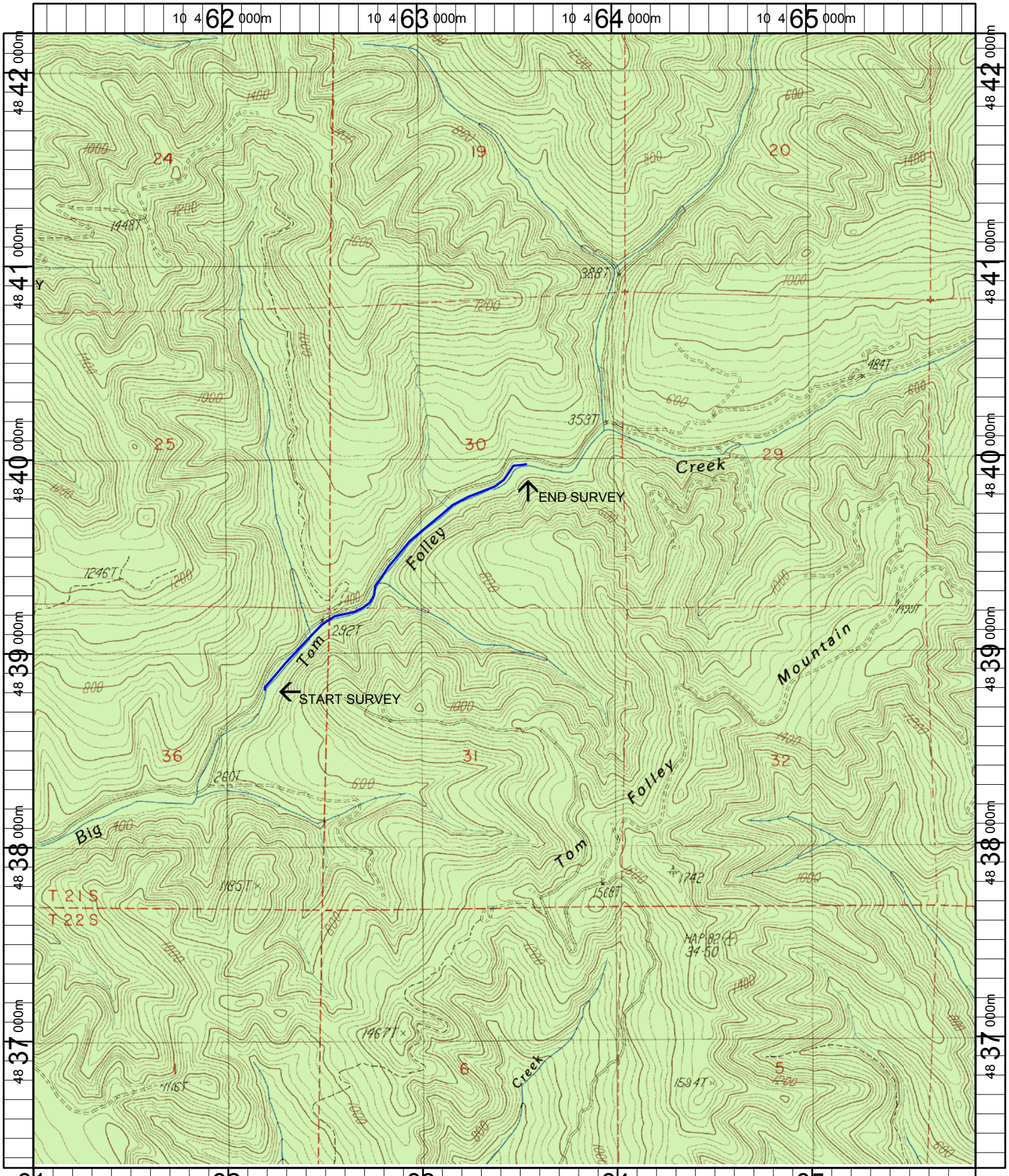
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	31	HS	25 BOULDERS	
3	RR	00	86.5	HS	15 BOULDERS	
5	RB	00	143	HS	30 BOULDERS - SITE 3	
6	RI	01	193	TJ/	T = 10.0	
7	CB	11	193		ACW = 1.2, T = 10.0, BDRK=CLAY	
8	RR	00	232.5	HS	50 BOULDERS	
10	LP	00	264	HS	25 BOULDERS	
11	SB	00	269	HS	25 BOULDERS	
12	LP	00	315		FRESH REDD	
13	SL	00	315.3	HS	12 BOULDERS, ONE LOGS, H=0.2	
14	LP	00	383.3	HS x 3	18 BLDRS, 12 BLDRS, 18 BLDRS	
15	SB	00	383.9	HS	25 BOULDERS	
16	LP	00	409.9	HS	40 BOULDERS - SITE 7	
17	RI	01	426.4	TJ/		
18	CB	11	426.4		ACW = 3.7, CC UPSTREAM	
20	RI	01	512.4	/TJ		
21	CB	11	512.4		ACW = 1.2	
26	RB	01	647.9	TJ/		
27	CB	11	647.9		ACW = 0.7	
33	RR	01	815.4	HS x 5	4 WITH 10 BLDRS, 1 WITH 18	
36	RI	01	858.4	DJ		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 4-UMP SITE ID: 245 BIG TOM FOLLEY CR PHASE 3 POST

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
38	LP	01	899.4	/TJ		
39	RB	11	899.4		ACW = 3.6	
41	SB	00	951.8	HS x 3	2 WITH 10 BLDRS, 1 WITH 25	
43	RI	00	995.3	HS x 3	ALL WITH BLDRS - 8, 15, 4	
44	SB	00	995.7		H = 0.25	
45	LP	00	1027.7	HS	12 BOULDERS	
46	LP	00	1056.7	DJ		
47	RI	01	1144.7	TJ/		
48	CB	11	1144.7		ACW = 0.9, BDRK IS HARDPAN	
50	RI	00	1221.7		SEVERAL FRESH REDDS IN SURVEY	
51	RI	00	1246.7	HS	50 BOULDERS THROUGH RIFFLE	
56	RB	00	1372	HS x 4	BOULDERS - 15, 10,12, 7	
60	RI	01	1526.3	TJ/, SS/		
61	CB	11	1526.3		ACW = 1.6	
71	BW	10	1895	SS/		
74	GL	01	1969.4	TJ/		



Name: PUTNAM VALLEY
Date: 6/13/2005
Scale: 1 inch equals 2000 feet

Location: 10 463434 E 4839262 N
Caption: BIG TOM FOLLEY CREEK PHASE III RESTORATION SITE - UMPQUA BASIN