

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

STREAM: Big Tom Folley Creek Phase 2 (U-184)
BASIN: Umpqua River
SURVEY TYPE: Post-Tx
DATE: February 10, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 57.5 km²
USGS MAPS: Elkton, Putnam Valley
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Big Tom Folley Creek habitat survey extended 531 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 6.4 (range: 4.0-11.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 1.3 percent. Riffles (46%) and scour pools (34%) dominated stream habitat. Bedrock (50%) and boulders (20%) dominated stream substrate. Wood volume was very low at 3.5 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 T21S-R07W-S02NW 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	6.4	VWI Range:	4 - 11

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	531	5,450	0
Secondary	58	256	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.1	Width: 15.3	18.5 (9.1 - 22.4)	24.5 (10.1 - 30.5)
Depth: 0.55	Height: 0.8	1.6 (1.2 - 2)	2.9 (2.3 - 3.5)

W:D ratio: 19.0 Entrenchment (ACW:FPW ratio): 1.2
Stream Flow Type: MF Water temp (°C): 7.5 - 7.5
Avg. Unit Gradient: 1.3% Habitat Units/100m: 4.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	D15	C30

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):	48	9.0
Volume (m ³):	18	3.5
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE BIG TOM FOLLEY PHASE 2 POST-TX (U-184)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/10/2004

REACH 1

T21S-R07W-S02NW

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/BEDROCK	1	13	4.5	0.30	59	0	0	0	0	0	0	100
CULVERT CROSSING	1	19	3.0	0.40	56	0	0	0	50	25	0	25
POOL-BACKWATER	1	9	4.5	0.50	41	0	5	20	20	0	5	50
POOL-LATERAL SCOUR	7	165	10.6	0.80	1,870	0	0	0	30	19	19	31
POOL-PLUNGE	1	9	5.5	0.80	51	0	0	0	0	0	30	70
RAPID/BEDROCK	3	69	7.6	0.33	499	0	0	0	0	0	15	85
RAPID/BOULDERS	3	58	8.7	0.57	469	0	0	0	0	3	30	67
RIFFLE	9	214	10.7	0.49	2,325	0	0	0	12	27	23	39
RIFFLE W/ POCKETS	1	25	11.6	0.40	290	0	0	0	0	20	30	50
STEP/BEDROCK	1	9	5.2	0.20	47	0	0	0	0	0	10	90
Total:	28	590	9.1	0.55	5,706	0	Avg: 0	1	14	15	20	50

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	9	4.5	0.50	41	0.71%	0	0.0
Scour Pools	8	175	10.0	0.80	1,921	33.66%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	10	239	10.8	0.48	2,615	45.84%	0	0.0
Rapids	6	127	8.2	0.45	968	16.97%	0	0.0
Cascades	1	13	4.5	0.30	59	1.03%	0	0.0
Step/Falls	1	9	5.2	0.20	47	0.82%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	19	3.0	0.40	56	0.97%	0	0.0

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>	
All Pools:	9	15.3	58
Pools >=1m deep:	2	3.4	
Complex pools (LWD pieces>=3):	3	5.1	
Pool frequency (channel widths/pool):	4.3		
Residual pool depth (avg):	0.44		

STREAM SUMMARY

BIG TOM FOLLEY PHASE 2 POST-TX (U-184)

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	
28	590	9.1	0.55	5,706	0	1	14	15	20	50	

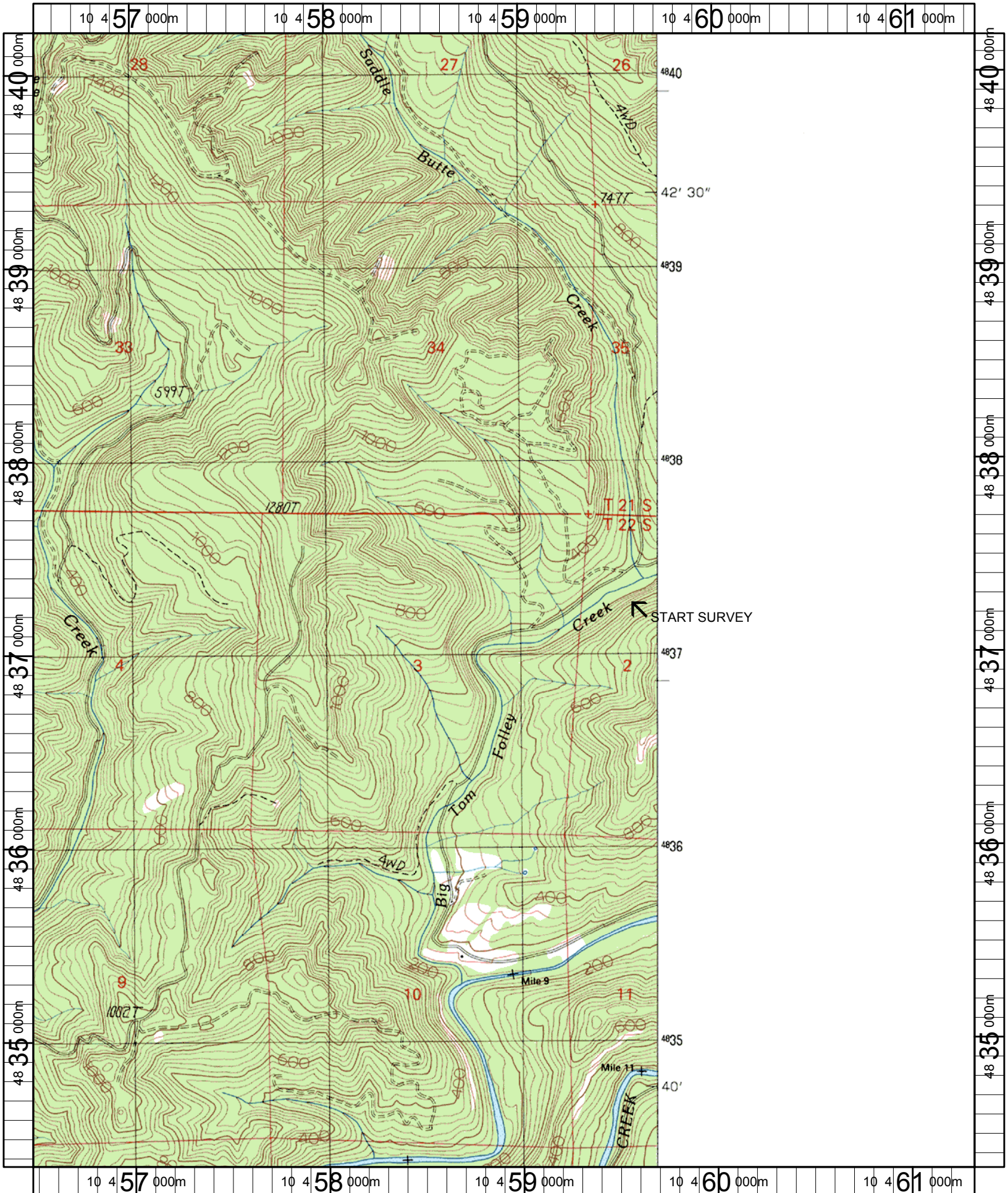
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	41	0.71%
Scour Pools	1,921	33.66%
Glides	0	0.00%
Riffles	2,615	45.84%
Rapids	968	16.97%
Cascades	59	1.03%
Step/Falls	47	0.82%
Dry	0	0.00%
Culverts	56	0.97%

Comment Summary

Oregon Plan Monitoring Sites 2002

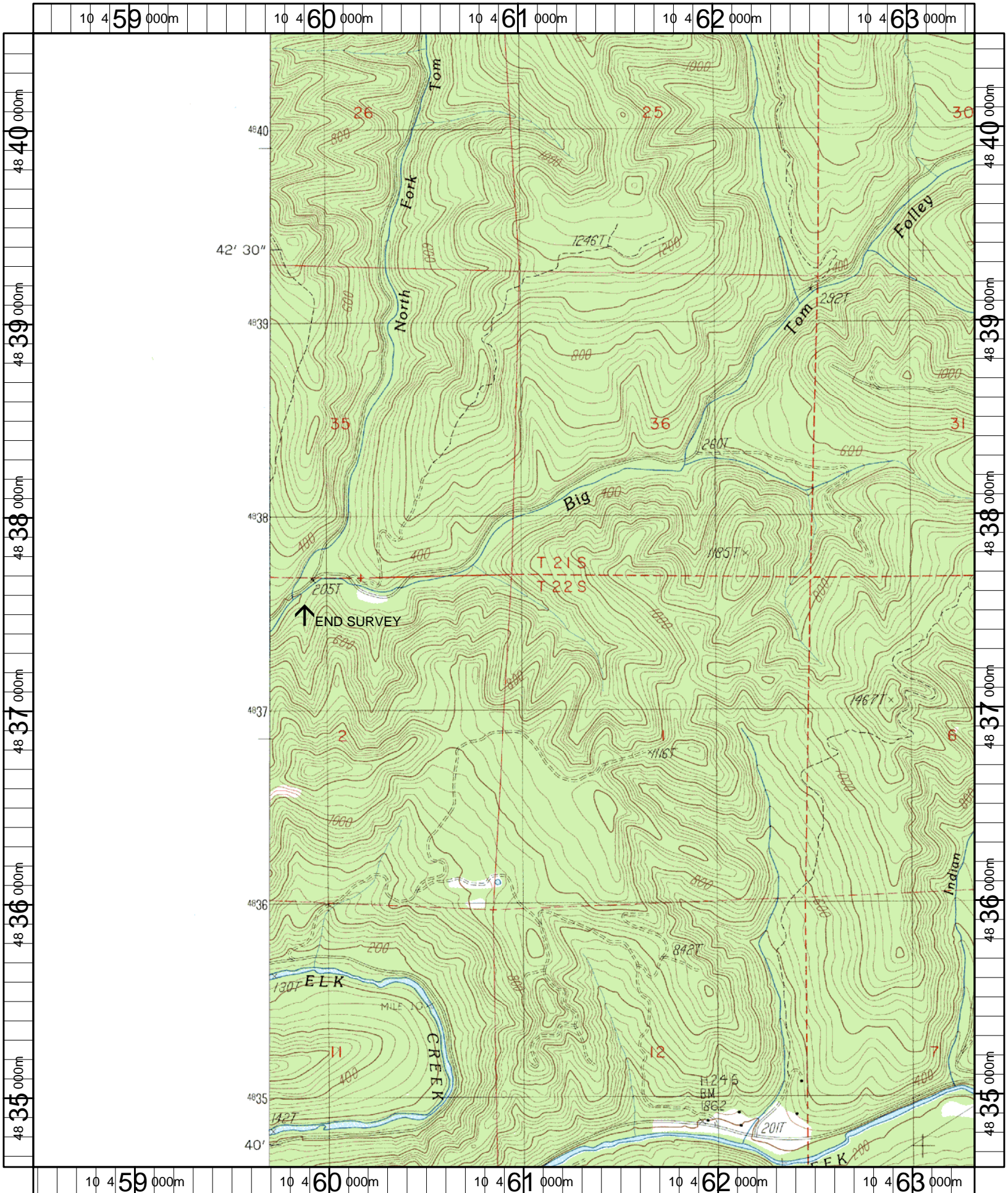
MONITORING AREA: **4-UMP** SITE ID: **184** **BIG TOM FOLLEY PHASE 2 POST-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	18.7		T=7.5C	
2	LP	00	47.4	/AA		
3	RP	00	72.4	HS	9 BLDRS	
5	LP	01	125.7	HS, TJ/	SADDLE BUTTE CR	
6	CR	02	125.7	HS	ACW=7.5M, T=8C	
9	RR	00	171.1	HS	SITE 3, 9 BLDRS	
10	LP	00	197.1	HS	3 BLDRS	
11	RI	00	218.5	HS	SITE 4, 14 BLDRS	
13	RI	00	268.1	HS	11 BLDRS	
16	RI	00	344.1	HS	10 BLDRS	
18	RI	00	396.1	HS, CE/	SITE 7, 8 BLDRS	
19	LP	00	421.1	CS/		
20	RB	01	432.1	CS, TJ/,HS	10 BLDRS, NF T. FOLLEY	
21	RI	11	432.1		T=7C, ACW=10.3M	
22	LP	11	432.1		SG=8-SPAWN SURVEY SI	
23	CC	11	432.1	CC	H=1.85M	
27	RR	00	502.4	HS	10 BLDRS	



Name: ELKTON
 Date: 8/4/2004
 Scale: 1 inch equals 2000 feet

Location: 10 458912 E 4837273 N
 Caption: BIG TOM FOLLEY CREEK PHASE 2 RESTORATION SITE -
 UMPQUA BASIN



Name: PUTNAM VALLEY
 Date: 8/4/2004
 Scale: 1 inch equals 2000 feet

Location: 10 460913 E 4837562 N
 Caption: BIG TOM FOLLEY CREEK PHASE 2 RESTORATION SITE -
 UMPQUA BASIN