

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

STREAM: North Fork Big Tom Folley Creek (UMP-267)  
BASIN: Umpqua River  
SURVEY TYPE: Post-Tx  
DATE: March 18, 2008  
SURVEY CREW: Kyle Brachter, Bobby Gomez  
REPORT PREPARED BY: Sharon Tippery  
BASIN AREA: 13.8 km<sup>2</sup>  
USGS MAPS: Putnam Valley  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The North Fork Big Tom Folley Creek habitat survey extended 3,560 meters. The channel was alternately constrained by terrace and hillslope in a broad valley floor. The average valley width index was 5.2 (range: 1-20). Land use for the reach was second growth timber (15-30cm dbh) and large growth timber (30-50cm dbh). The average unit gradient was 2.4 percent. Scour pools (38%), riffles (31%) and rapids (25%) dominated stream habitat. Bedrock (37%), gravel (27%) and cobble (20%) dominated stream substrate. Wood volume was 23.9m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures consisting of large wood and boulders during the survey.

An adult steelhead and three redds were observed during the survey.

Survey Date: 3/17/2008

Report Date: 5/8/2008

T21S-R07W-S35SW

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	5.2	VWI Range:	1 - 20

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	3,560	27,496	0
Secondary	62	87	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 10	<u>First Terrace</u> n = 7
Width: 7.6	Width: 8.9	11.3 ( 8.5 - 14.4 )	14.6 ( 11.4 - 20.4 )
Depth: 0.48	Height: 0.6	1.1 ( 1 - 1.2 )	2.0 ( 1.4 - 3 )

W:D ratio: 16.3

Stream Flow Type: HF

Average Unit Gradient: 2.4%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 5.5

Habitat Units/100m (primary channel length): 5.6

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	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):	788	22.1
Volume (m <sup>3</sup> ):	850	23.9
Key pieces (>=12m x 0.60m):	22	0.6

OREGON DEPT OF FISH AND WILDLIFE

NORTH FORK BIG TOM FOLLEY CREEK

HABITAT INVENTORY

GCG: 4-UMP SITE ID: 267

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area						
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
CASCADE/BEDROCK	1	14	5.0	0.30	69	0	0	0	0	0	0	0	100
CASCADE/BOULDERS	2	10	1.3	0.08	12	0	5	0	90	5	0	0	0
CULVERT CROSSING	2	56	4.6	0.55	258	0	0	0	30	40	15	15	0
DRY CHANNEL	1	16	0.8	0.00	13	0	0	95	5	0	0	0	0
POOL-BACKWATER	1	7	3.4	0.35	24	0	0	95	5	0	0	0	0
POOL-LATERAL SCOUR	78	1,188	8.0	0.78	9,677	0	0	12	29	17	3	39	0
POOL-PLUNGE	4	24	9.7	0.74	230	0	0	6	19	18	6	51	0
POOL-STRAIGHT SCOUR	9	102	8.5	0.73	801	0	0	16	16	15	9	45	0
RAPID/BEDROCK	26	658	8.1	0.26	5,185	0	0	2	6	7	5	81	0
RAPID/BOULDERS	11	255	6.9	0.28	1,784	0	0	0	14	37	22	27	0
RIFFLE	37	1,095	7.4	0.21	8,096	0	3	6	45	34	4	9	0
RIFFLE W/ POCKETS	2	100	7.3	0.23	725	0	0	0	48	48	5	0	0
STEP/BEDROCK	6	28	8.4	0.24	236	0	0	2	12	0	0	87	0
STEP/BOULDERS	5	20	4.9	0.18	116	0	12	2	19	30	37	0	0
STEP/COBBLE	7	33	6.4	0.11	215	0	5	8	46	41	1	0	0
STEP/LOG	6	17	8.2	0.15	144	0	0	25	17	0	7	52	0
<b>Total:</b>	198	3,623	7.6	0.48	27,583	0	<b>Avg:</b> 1	9	27	20	6	37	

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	1	7	3.4	0.35	24	0.09%	0	0.0
Scour Pools	91	1,315	8.2	0.77	10,708	38.82%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	39	1,195	7.4	0.21	8,821	31.98%	0	0.0
Rapids	37	914	7.8	0.26	6,969	25.27%	0	0.0
Cascades	3	23	2.5	0.15	80	0.29%	0	0.0
Step/Falls	24	98	7.0	0.17	710	2.57%	0	0.0
Dry	1	16	0.8	0.00	13	0.05%	0	0.0
Culverts	2	56	4.6	0.55	258	0.94%	0	0.0

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**POOL SUMMARY**

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	92	25.4	25.8
Pools >=1m deep:	10	2.8	2.8
Complex pools (LWD pieces>=3):	34	9.4	9.5
Pool frequency (channel widths/pool):	4.4		
Residual pool depth (avg):	0.45		

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COMMENT SUMMARY

MONITORING AREA: 4-UMP      SITE ID: 267      STREAM: NORTH FORK BIG TOM FOLLEY CREEK

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	CC	00	31	CC	CHMV D15S ST T=8C
3	RR	01	88.3	/TJ	
4	RI	11	88.3		T=8C ACW=1.4M
5	RR	00	99.3	HS DJ	
8	SP	00	146.8	HS DJ	
9	RI	00	170.8	HS DJ	
12	LP	00	197	HS DJ	
14	LP	00	258.4	/SS	
15	RR	00	295.4	HS	BOULDERS
16	LP	00	304.4	HS	
17	RR	00	330	HS	BOULDERS
18	LP	00	351	HS DJ	
19	RR	00	386	HS	CACT D15S ST
21	RR	00	444	HS	BOULDERS
23	LP	00	459	HS DJ	
25	SP	00	484	DJ	
34	SR	00	619.3	HS	BOULDERS GRAVEL RECRUITMENT BY BOULDERS
38	RR	01	674	/TJ	
39	CB	11	674		ACW=2.2M T=8C
42	LP	00	718.1	HS DJ	
43	RI	00	733.1	HS	LOGS
44	LP	00	739.5	HS DJ	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
51	RR	00	849.4	HS DJ	
52	PP	00	855.2	DJ HS	
54	LP	01	887.2	TJ/	
55	SC	11	887.2		T=9.5C ACW=2.8M
59	SP	00	954.7	DJ	
62	RB	00	1027.7	DJ	
65	LP	00	1084.7		2 STEELHEAD REDDS
68	LP	00	1120.7	DJ	
70	LP	00	1136.7	LI/	
72	LP	00	1174.8	DJ	STEELHEAD REDD
75	RR	00	1235		CTMT D15S STLT
77	RP	00	1296		POCKET- 4M X 3.3M X 0.5M & 3.7M X 1.8M X 0.6M
84	SC	11	1440		ACW=1.8M T=9C
85	RR	01	1482	/TJ	
87	SP	00	1505.5	/SS	
88	RR	00	1520	CS/	RIPRAP
90	CR	00	1546.7	HS DJ	
91	SL	00	1552.7	DJ HS	
92	LP	00	1598.7		STEELHEAD IN POOL
93	RI	00	1611.7		CACT D15S STLT
94	LP	00	1628.2	HS	LOGS
96	LP	00	1662.2	HS DJ	

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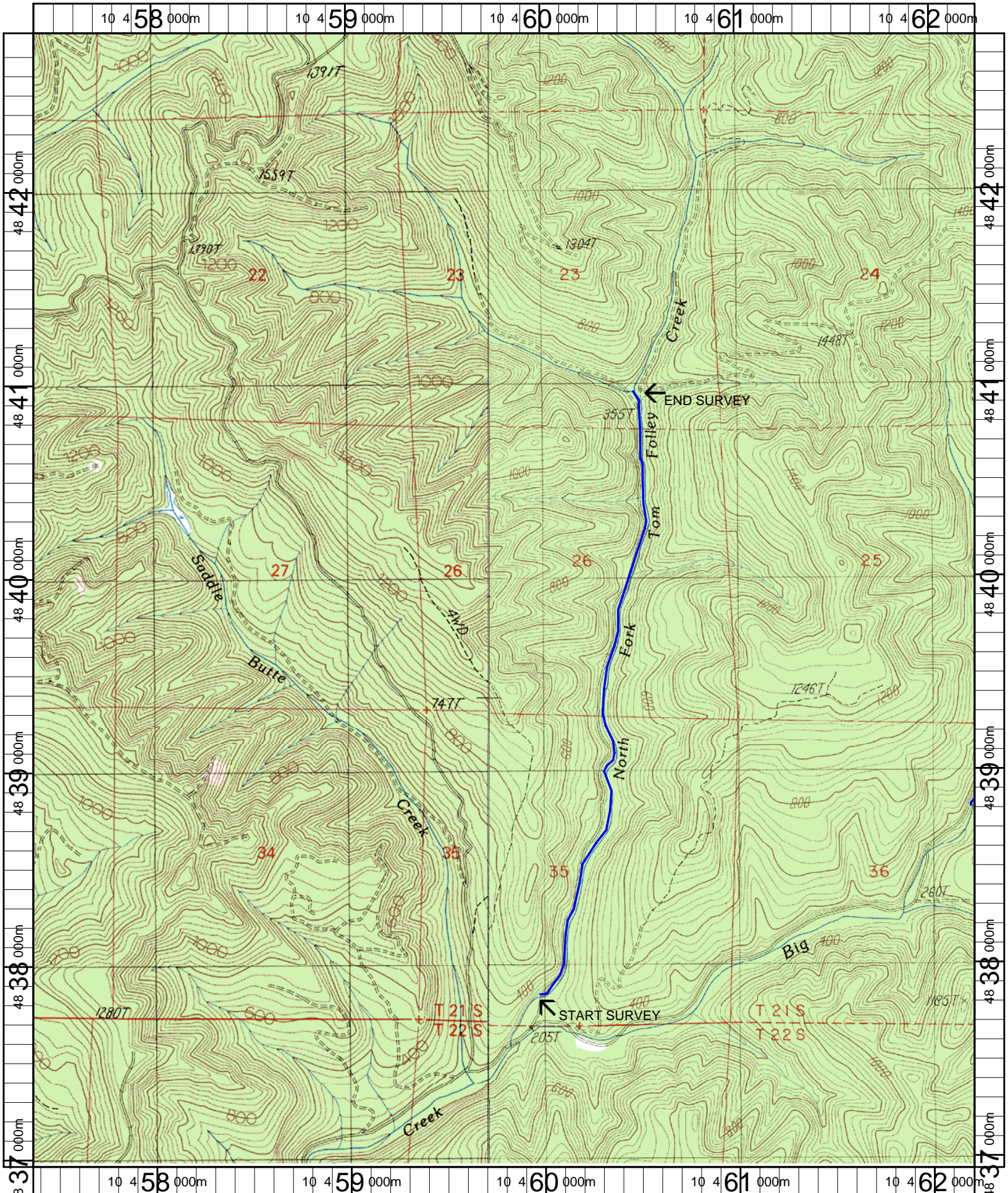
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
100	RP	00	1738.6	HS SS/	BOULDERS
105	RR	00	1814.3	HS	BOULDERS
108	PP	00	1842.6	DJ	
111	RI	00	1887.2	HS	BOULDERS
112	LP	01	1899.2	/TJ	
113	CB	11	1899.2		ACW=1.1M T=9C
114	RR	00	1922.5	HS	BOULDERS
116	SL	00	1928.7	DJ	
117	LP	00	1954.9	HS	BOULDERS
118	RB	01	1975.3	TJ/	
119	SB	11	1975.3		ACW=1.3M T=9C
122	SP	00	2013.5	DJ	WIND FALL ALDERS
123	SR	00	2019.2	DJ	
131	RI	00	2127.3	HS	BOULDERS
133	SB	00	2153.3	HS	BOULDERS
134	LP	00	2164.6	DJ	
136	LP	00	2195	HS	BOULDERS
139	RI	00	2278.4	/SS	
140	LP	00	2290.4	CE/	
141	LP	00	2300.4	HS	BOULDERS
142	RI	00	2337.4		CACT D15S THST
144	RR	00	2359.2	DJ	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
147	RI	01	2463.2	TJ/	
148	RB	11	2463.2		ACW=1M T=9C
151	LP	00	2537.4	CS/	
152	SR	11	2537.4		ACW=4M T=8C
153	RB	01	2551.4	/TJ	
155	RB	00	2609.4	CE/	CHMV D15S ST
159	RI	00	2727.4	/LA	
160	LP	00	2738.4	DJ	HARDPAN
165	RI	00	2902.4	/SS	
166	RI	01	2945.4	TJ/	
167	SB	11	2945.4		ACW=2M T=8C
170	RI	00	3056.4		CHMV D15S ST
183	LP	00	3268.9	DJ	
188	LP	00	3348.5	DJ	
194	CC	00	3435.3	CS/CS, CC	DIAMETER 4.5M
198	RR	00	3560.3		END OF SURVEY





Name: PUTNAM VALLEY  
 Date: 5/9/2007  
 Scale: 1 inch equals 2000 feet

Location: 10 459800 E 4839881 N  
 Caption: NORTH FORK BIG TOM FOLLEY CREEK RESTORATION SITE - UMPQUA BASIN