

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

STREAM: Little Tom Folley Creek Phase 1 (UMP-266)  
BASIN: Umpqua River  
SURVEY TYPE: Post-Tx  
DATE: March 20, 2007  
SURVEY CREW: Andy Lanier, Laurel Moulton  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 14.9 km<sup>2</sup>  
USGS MAPS: Elkton  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Little Tom Folley Creek Phase 1 habitat survey extended 2,431 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 2.9 (range: 1.5-4). Land use for the reach was agriculture and timber harvest. The average unit gradient was 0.9 percent. Scour pools (55%) and riffles (23%) dominated stream habitat. Bedrock (37%) and gravel (30%) dominated stream substrate. Wood volume was low at 18.6 m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures during the survey. A culvert (1.7m x 2.2m) was recorded at 1,342 meters into the survey reach.

Juvenile salmonids, Rough-skinned newts, several redds, and a Bald Eagle were observed during the survey.

OREGON DEPT OF FISH AND WILDLIFE LITTLE TOM FOLLEY PHASE 1 POST-TX (4-UJP, 266)

HABITAT INVENTORY

Report Date: 5/3/2007

Survey Date: 3/20/2007

REACH 1

T22S-R07W-S17NE

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	98%
Moderate V-shape	2%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.9	VWI Range:	1.5 - 4

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	2%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	98%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	2,431	15,550	0
Secondary Channel	24	48	1
Off-Channel Units	67	104	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 7	<u>First Terrace</u> n = 5
Width: 5.9	Width: 9.4	11.6 ( 10 - 14 )	14.2 ( 12 - 17 )
Depth: 0.42	Height: 0.5	1.0 ( 0.9 - 1.2 )	1.6 ( 1.2 - 2 )

W:D ratio: 18.3

Stream Flow Type: MF

Average Unit Gradient: 0.9%

Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 6.5

Habitat Units/100m (primary channel length): 6.8

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	TH
Riparian Vegetation:	S	D30

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):	317	13.0
Volume (m <sup>3</sup> ):	453	18.6
Key pieces (>=12m x 0.60m):	8	0.3

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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	3	68	7.0	0.12	492	0	0	3	2	2	2	92
CASCADE/BOULDERS	1	8	0.8	0.02	6	0	0	15	40	25	20	0
CULVERT CROSSING	1	16	1.0	0.10	16	0	0	10	10	0	80	0
POOL-BACKWATER	3	20	2.8	0.60	54	0	13	77	7	3	0	0
POOL-DAMMED	5	79	7.3	0.70	541	0	3	41	23	4	4	25
POOL-LATERAL SCOUR	80	1,360	6.1	0.67	8,497	0	2	19	29	7	5	39
POOL-PLUNGE	4	20	6.4	0.66	140	0	0	23	13	6	3	55
PUDDLED UNIT	1	24	2.0	0.30	48	0	0	20	40	40	0	0
RAPID/BEDROCK	5	93	7.4	0.12	640	0	1	8	3	0	1	87
RAPID/BOULDERS	4	60	4.0	0.09	324	0	0	3	40	10	6	41
RIFFLE	4	66	6.0	0.13	390	0	0	4	50	33	4	10
RIFFLE W/ POCKETS	14	490	6.6	0.13	3,301	0	1	9	24	8	9	48
STEP/BEDROCK	12	76	6.3	0.11	521	0	0	6	9	4	8	73
STEP/BOULDERS	2	10	5.3	0.10	72	0	0	7	23	7	54	9
STEP/COBBLE	22	126	4.9	0.12	621	0	0	5	68	23	3	1
STEP/LOG	3	4	6.9	0.07	22	0	0	34	17	36	0	13
STEP/STRUCTURE	1	3	6.0	0.10	18	0	0	20	0	0	0	80
<b>Total:</b>	165	2,522	5.9	0.42	15,702	0	<b>Avg:</b> 2	16	30	10	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	8	99	5.6	0.66	595	3.79%	0	0.0
Scour Pools	84	1,380	6.1	0.67	8,637	55.00%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	18	556	6.5	0.13	3,691	23.51%	0	0.0
Rapids	9	153	5.9	0.10	964	6.14%	0	0.0
Cascades	4	76	5.5	0.09	498	3.17%	0	0.0
Step/Falls	40	219	5.5	0.11	1,253	7.98%	0	0.0
Dry	1	24	2.0	0.30	48	0.31%	0	0.0
Culverts	1	16	1.0	0.10	16	0.10%	0	0.0

REACH 1

T22S-R07W-S17NE

REACH 1

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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	36.5	37.8
Pools >=1m deep:	10	4.0	4.1
Complex pools (LWD pieces>=3):	24	9.5	9.9
Pool frequency (channel widths/pool):	2.9		
Residual pool depth (avg):	0.51		

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# Comment Summary

## Restoration Monitoring Sites 2007

MONITORING AREA: 4-UMP    SITE ID: 266    LITTLE TOM FOLLEY PHASE 1 POST-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
1	LP	00	17	CS/CS-BC	LITTLE TOM FOLLEY RD. JUVENILE
2	LP	00	37	CS/CS	
4	LP	00	56		TEMPERATURE =9
5	LP	00	85		JUVENILE SALMONIDS. ROUGHSKIN
8	LP	00	131	BV-/SS	
12	LP	00	193		SR=SALMON REDD. 1 OBSERVED.
13	LP	01	211	/TJ	
14	SC	00	215		ACW=1.5M
17	LP	01	258		JUVENILE SALMONIDS OBSERVED
18	BW	10	258		ROUGHSKIN NEWTS OBSERVED.
33	LP	00	432		JUVENILE SALMONIDS OBSERVED
35	LP	01	459		JUVENILE SALMONIDS OBSERVED
38	PD	02	489		JUVENILE SALMONIDS OBSERVED, A
55	SC	00	670		REACH PICTURE
56	LP	00	678		SR*1
57	RP	00	730		FLAG IND. 42 BDEERS TO BE PLACE
60	LP	00	802		AC MEASUREMENTS IN TAILOUT.SR*
62	LP	01	852	TJ/	
63	RB	11	852		ACW=2
64	RP	00	902		ORANGE FLAG SITE 3. ODFW FLAG
65	RP	00	952		JUVENILE SALMONIDS OBSERVED

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
80	RP	00	1225	WL	BALD EAGLE!
82	SB	00	1260.5	CS/	
83	LP	00	1289.5	CS/	JUVENILE SALMONIDS OBSERVED
85	LP	00	1314.5		JUVENILE SALMONIDS OBSERVED (C
87	LP	01	1342	TJ/	SR*3.
88	SB	11	1342	HS	BOULDERS
89	PP	11	1342	CS/CS	ACW=4M
90	CC	11	1342		CULVERT IS 1.7M TALL, 2.2 WIDE
92	LP	00	1366.5		JUVENILE SALMONIDS OBSERVED =
94	LP	00	1411.5		JSO
95	LP	00	1425.5		JSO
96	LP	00	1437.5	HS	LP=LOGS PLACED IN STREAM.
98	LP	00	1459.5	HS	LP
100	LP	00	1474.5	HS	LP
102	SC	01	1510.5	/TJ	
103	SL	11	1510.5		ACW=.9
104	LP	00	1523.5	HS	LP
109	LP	00	1571.5	HS	LP.
110	RP	00	1626.5	CS/	
111	DP	00	1650.5	CS/	SCHOOL OF JSO.
112	CR	00	1674.5	HS	LP.

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## Restoration Monitoring Sites 2007

MONITORING AREA: 4-UMP    SITE ID: 266    LITTLE TOM FOLLEY PHASE 1 POST-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
117	LP	00	1736.5		SR*1
119	LP	00	1768.5	SS/	SR*6.
123	LP	00	1820	/SS	SR*2
128	LP	00	1883	TJ/	
129	RB	11	1883		ACW=1.2
136	RB	00	1978	HS	LP.
140	SL	00	2035		JSO.
141	LP	00	2086	HS	SCHOOL OF JSO. LP.
143	RR	00	2118	/TJ-HS	LP.
144	CB	11	2118		ACW=1.2
145	LP	00	2143		SCHOOL OF JSO.(COHO)
146	SR	00	2145	HS	LP.
147	DP	00	2155		SCH OF JSO.
149	LP	00	2192	HS	LP.
151	LP	00	2233	HS	LP. + BOULDERS
154	LP	00	2269	HS	LP.
155	RP	00	2299		JSO
157	SS	00	2307	HS	LP.
159	SR	00	2320	HS	LP.
160	DP	00	2344		SCHOOL OF JSO.
163	LP	00	2398		JSO

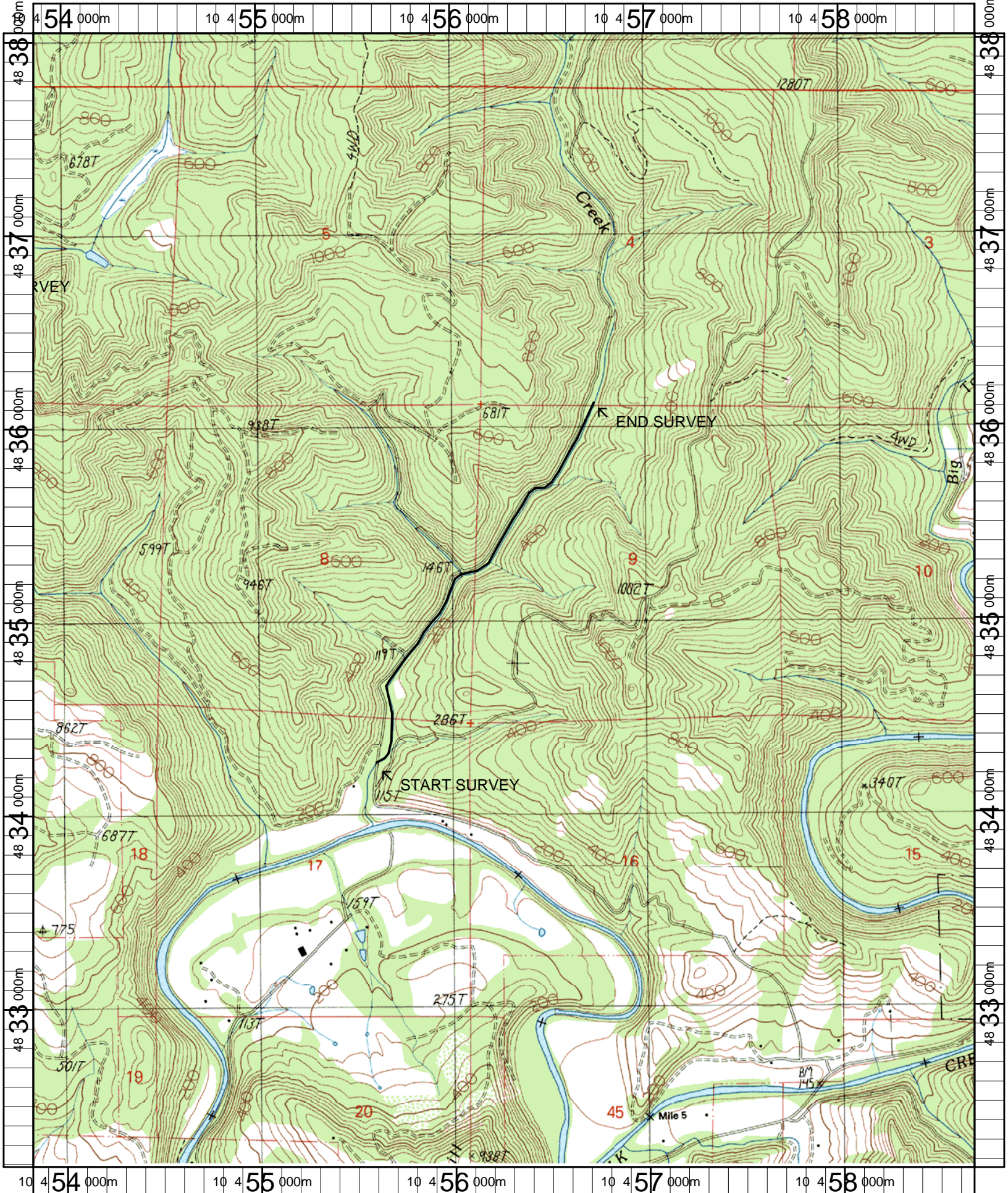
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## Restoration Monitoring Sites 2007

MONITORING AREA: 4-UMP    SITE ID: 266    LITTLE TOM FOLLEY PHASE 1 POST-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
165	LP	00	2431		AC MEASUREMENTS MADE JUST ABOVE





Name: ELKTON (OR)  
 Date: 4/25/2007  
 Scale: 1 inch equals 2000 feet

Location: 10 0456263 E 4835102 N  
 Caption: LITTLE TOM FOLLEY CREEK RESTORATION SITE - UMPQUA BASIN