

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

STREAM: Tom Fry Creek (S-350)  
BASIN: Rogue River  
SURVEY TYPE: Pre-Tx  
DATE: June 23, 2006  
SURVEY CREW: Greg Ryder, Steve Koller  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 3.9 km<sup>2</sup>  
USGS MAPS: Agness  
ECOREGION: Southern Oregon Coastal Mountains

**GENERAL DESCRIPTION:**

The Tom Fry Creek habitat survey extended 517 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.5 (range: 1.2-1.9). Land use for the reach was second growth (15-30 cm dbh) trees and rural residential. The average unit gradient was 7.8 percent. Rapids (46%) and cascades (26%) dominated stream habitat. Cobble (25%) and boulders (24%) dominated stream substrate. Wood volume was low at 15.4 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T35S-R12W-S13NE

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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.5	VWI Range:	1.2 - 1.9

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	517	1,070	0
Secondary Channel	0	0	0
Off-Channel Units	5	6	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 5</i>	<u>First Terrace</u>	<i>n = 0</i>
Width: 2.0	Width: 5.7	8.5	( 6.7 - 12 )	( - )	
Depth: 0.25	Height: 0.6	1.1	( 0.6 - 1.4 )	( - )	

W:D ratio: 11.7  
 Stream Flow Type: LF  
 Average Unit Gradient: 7.8%  
 Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.5  
 Habitat Units/100m (total channel length): 9.4  
 Habitat Units/100m (primary channel length): 9.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	RR
Riparian Vegetation:	D15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	25%	Reach avg: 97%
Undercut Banks:	2%	Range: 75 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	44	8.5
Volume (m <sup>3</sup> ):	80	15.4
Key pieces (>=12m x 0.60m):	6	1.2

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

6/23/2006

REACH 1		T35S-R12W-S13NE					REACH 1					
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/BOULDERS	8	141	2.0	0.16	283	52	4	8	22	36	31	0
CULVERT CROSSING	1	57	0.8	0.10	46	0	25	25	40	10	0	0
POOL-BACKWATER	2	5	1.2	0.20	6	0	20	20	25	20	15	0
POOL-LATERAL SCOUR	8	46	2.3	0.38	103	20	20	22	24	23	11	0
POOL-PLUNGE	8	39	2.7	0.57	103	15	13	17	21	20	19	10
RAPID/BOULDERS	12	219	2.2	0.16	499	55	6	14	23	31	24	3
RIFFLE	1	10	3.2	0.30	32	4	10	10	20	40	20	0
STEP/BEDROCK	1	2	0.3	0.10	1	0	0	0	0	0	0	100
STEP/BOULDERS	3	2	1.0	0.07	2	10	0	0	3	13	83	0
STEP/LOG	5	2	0.9	0.06	2	3	4	14	18	21	20	23
<b>Total:</b>	49	522	2.0	0.25	1,076	159	<b>Avg:</b> 9	14	21	25	24	7

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	2	5	1.2	0.20	6	0.55%	0	0.0	
Scour Pools	16	85	2.5	0.47	206	19.12%	35	17.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	1	10	3.2	0.30	32	2.95%	4	12.6	
Rapids	12	219	2.2	0.16	499	46.38%	55	11.0	
Cascades	8	141	2.0	0.16	283	26.30%	52	18.4	
Step/Falls	9	6	0.8	0.07	5	0.45%	13	266.4	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	57	0.8	0.10	46	4.24%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	18	34.5	34.8
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	5.1		
Residual pool depth (avg):	0.34		

OREGON DEPARTMENT OF FISH AND WILDLIFE  
HABITAT INVENTORY

TOM FRY CREEK PRE-TX  
GCG: 5-SC SITE ID: 350

Survey Date 6/23/2006

**RIPARIAN ZONE**

Report Date: 3/5/2007

**VEGETATION SUMMARY**

REACH 1

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

Total hardwoods/1000	914
Total conifers/1000 ft	61
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	0.0	4.7	0.0	5.3	0.0	3.0	0.0	13.0
15-30cm	0.0	0.3	0.3	0.7	0.0	0.7	0.3	1.7
30-50cm	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.0
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	5.3	0.3	6.0	0.7	3.7	0.3	5.0

**Canopy closure and ground cover**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	87		87		77	
Shrub cover	33		67		67	
Grass/forb cover	37		27		17	

**Predominant landform in each zone**

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	100		100		100	
High terrace	0		0		0	
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 (%)	77		90		93	

**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	914
Total conifers/1000 ft	61
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	0.0	13.0
15-30cm	0.3	1.7
30-50cm	0.7	0.0
50-90cm	0.0	0.3
>90cm	0.0	0.0

**RIPARIAN ZONE VEGETATION**

Reach 1

Reach 1

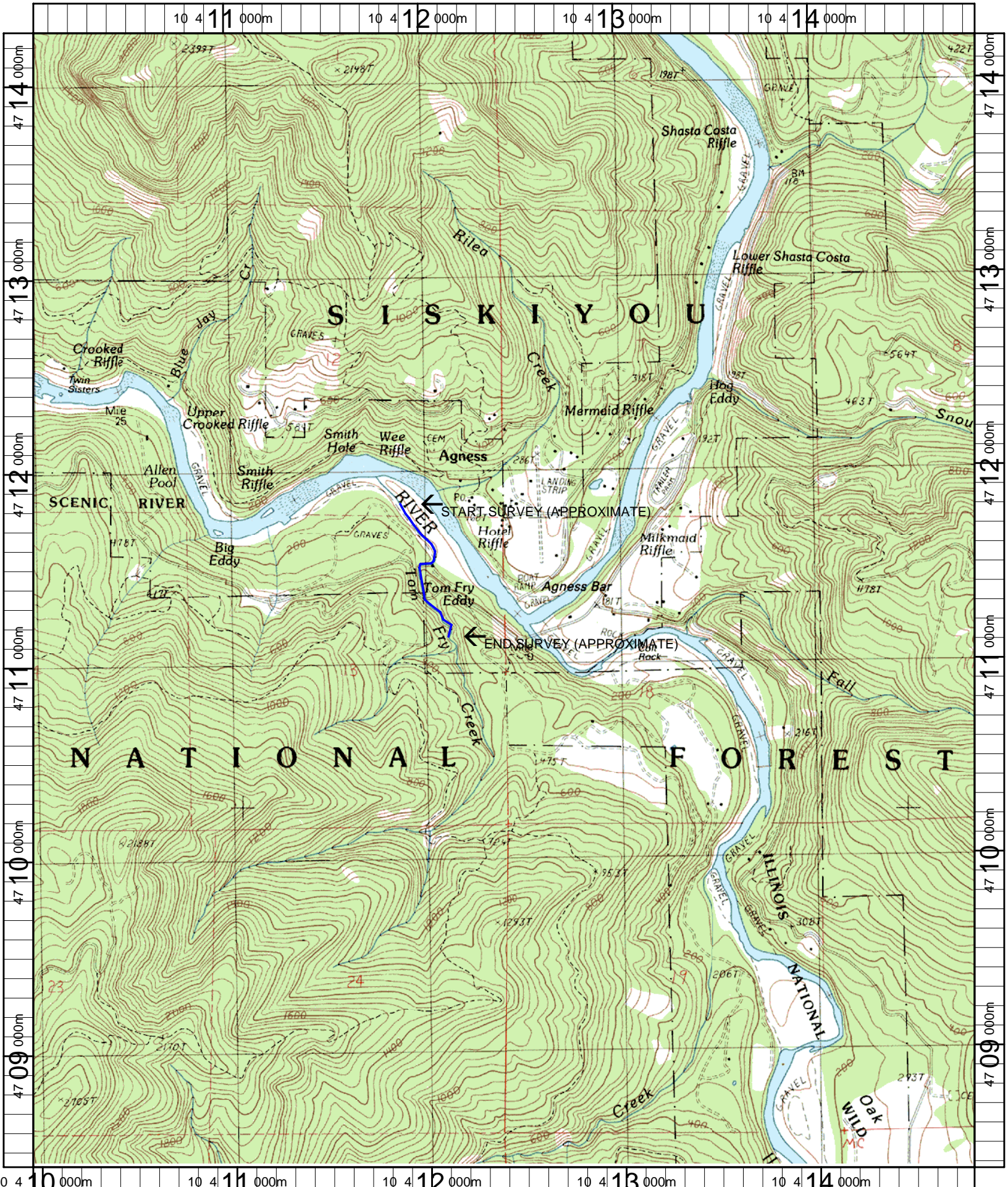
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
13	LF	1	HS	10	60	80	20	Conifer							
								Hardwood	3						
13	RT	3	HS	100	100	60	20	Conifer							
								Hardwood	2						
13	RT	1	HS	90	60	40	40	Conifer							
								Hardwood	2						
13	LF	2	HS	90	80	100	0	Conifer							
								Hardwood	4						
13	RT	2	HS	95	80	80	40	Conifer							
								Hardwood	3						
13	LF	3	HS	95	80	100	0	Conifer							
								Hardwood	1						
26	RT	3	HS	90	80	20	0	Conifer							
								Hardwood							
26	RT	2	HS	80	100	20	20	Conifer							
								Hardwood							
26	RT	1	HS	80	100	0	20	Conifer							
								Hardwood							
26	LF	3	HS	85	20	100	0	Conifer				1			
								Hardwood	2	1					
26	LF	2	HS	85	60	100	0	Conifer							
								Hardwood	3	1					
26	LF	1	HS	75	100	20	20	Conifer							
								Hardwood	5						
32	RT	1	HS	135	100	0	80	Conifer							
								Hardwood	1	1		1			
32	LF	2	HS	55	100	80	40	Conifer			1				
								Hardwood	3						
32	LF	3	HS	55	100	100	40	Conifer				1			
								Hardwood	2	1					
32	LF	1	HS	70	100	60	40	Conifer							
								Hardwood	3						
32	RT	2	HS	135	100	20	60	Conifer							
								Hardwood	3	1					ESTIMATED DUE TO SLOPE
32	RT	3	HS	135	80	20	40	Conifer							
								Hardwood	2						ESTIMATED DUE TO SLOPE

# Comment Summary

## Restoration Monitoring Sites 2006

MONITORING AREA: **5-SC**      SITE ID: **350**      TOM FRY CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	29.1		CH/MV, ST/RR, D15/S	
7	SL	00	82.7		H=0.50M	H=0.50M
8	LP	00	93.1	WL	YELLOW-LEGGED FROG	YELLOW-LEGGED FROG
11	SB	00	117.7		H=0.20M	H=0.20M
14	RB	00	175.8		CH/SV,ST/RR,D15/G	
21	SB	00	236.2		H=0.50M	H=0.50M
23	SB	00	241.7		H=0.60M	H=0.60M
26	RB	00	280.1		CH/SV,ST,D15,G	
29	CC	00	367	CC		JERRY'S FLAT RD, METAL,
30	CB	01	388.3			CC H=0.0, NO DROP
32	LP	00	392.4		CH/SV,ST,D30,S	
35	SL	00	407.5		H=0.60M	H=0.60M
40	SR	00	447.1		H=0.40M	
42	SL	00	452.1		H=0.70M	
44	PP	00	471.7			AMPHIBIAN=FROG
45	SL	00	471.9		H=0.55M	
48	SL	00	497.4		H=0.50M	
49	CB	00	517.3	SS/	CH/SV,ST,D30	



Name: AGNESS  
 Date: 5/25/2006  
 Scale: 1 inch equals 2000 feet

Location: 10 412406 E 4711322 N  
 Caption: TOM FRY CREEK RESTORATION SITE - ROGUE BASIN