

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

STREAM: French Creek (U-187)
BASIN: North Umpqua River
SURVEY TYPE: Pre-Tx
DATE: June 24, 2003
SURVEY CREW: Peter Baki, Scott Kirby
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 12.5 km²
USGS MAPS: Glide
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The French Creek habitat survey extended 537 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 6.7 (range: 1.0-20.0). Land use for the reach was light grazing and agriculture. The average unit gradient was 2.2 percent. Rapids (46%) and scour pools (41%) dominated stream habitat. Cobble (41%) and gravel (26%) dominated stream substrate. Wood volume was very low at 0.9 m³/100m.

COMMENTS:

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

REACH 1

T26S-R03W-S40SE

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 6.7		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	537	1,448	0
Secondary	0		0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.6	Width	6.2	11.6	19.5
Depth	0.26	Height	0.5	0.9	1.3
		W:D ratio	13.6	Entrenchment	2.0

Stream Flow Type:	LF	Water temp (C):	12.0 - 12.0
Avg. Unit Gradient:	2.2%	Habitat Units/100m:	7.6

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	19%	Reach avg: 87%
Undercut Banks:	5%	Range: 36 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	16	3.0
Volume (m ³):	5	0.9
Key pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

FRENCH CREEK PRE-TX (U-187)

HABITAT INVENTORY

Report Date: 12/18/03

Survey Date:

6/24/03

REACH 1		T26S-R03W-S40SE					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	1	11	2.1	0.15	24	24	0	5	5	53	32	5	
CULVERT CROSSING	1	12	0.4	0.03	5	0	0	0	40	60	0	0	
GLIDE	1	14	3.4	0.25	48	0	0	5	42	47	0	5	
POOL-LATERAL SCOUR	17	192	2.8	0.47	569	5	3	15	28	38	3	13	
POOL-PLUNGE	1	7	3.0	0.89	22	4	0	17	22	39	11	11	
POOL-STRAIGHT SCOUR	1	5	1.8	0.18	10	0	5	5	0	0	0	90	
RAPID/BOULDERS	14	246	2.8	0.08	669	42	1	6	29	44	16	3	
RIFFLE	2	41	1.9	0.07	76	11	0	5	11	32	5	48	
STEP/BEDROCK	1	4	5.2	0.01	18	0	0	0	0	0	0	100	
STEP/COBBLE	1	5	1.8	0.06	8	0	0	5	15	80	0	0	
STEP/STRUCTURE	1	0	0.3	0.01	0	0	0	0	40	60	0	0	
Total:	41	537	2.6	0.26	1,448	86	Avg	2	10	26	41	8	14

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	0	0			0	0.00%	0	0.0
Scour Pools	19	205	2.8	0.47	601	41.46%	9	1.5
Glides	1	14	3.4	0.25	48	3.29%	0	0.0
Riffles	2	41	1.9	0.07	76	5.27%	11	14.4
Rapids	14	246	2.8	0.08	669	46.18%	42	6.3
Cascades	1	11	2.1	0.15	24	1.64%	24	101.1
Step/Falls	3	8	2.4	0.03	26	1.82%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	12	0.4	0.03	5	0.34%	0	0.0

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	19	35.4
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	0	0.0
Pool frequency (channel widths/pool):	4.6	
Residual pool depth (avg):	0.44	

STREAM SUMMARY

FRENCH CREEK PRE-TX (U-187)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
41	537	2.6	0.26	1,448	2	10	26	41	8	14	86

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	0	0.00%
Scour Pools	601	41.46%
Glides	48	3.29%
Riffles	76	5.27%
Rapids	669	46.18%
Cascades	24	1.64%
Step/Falls	26	1.82%
Dry	0	0.00%
Culverts	5	0.34%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	589
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	20

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	0.3	1.0	0.0	1.3	0.0	0.3	0.3	2.7
15-30cm	0.3	1.7	0.0	0.3	0.0	0.3	0.3	2.3
30-50cm	0.0	3.7	0.0	0.3	0.0	0.0	0.0	4.0
50-90cm	0.0	0.7	0.7	0.0	0.0	0.0	0.7	0.7
>90cm	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Total/100m2	1.0	7.0	0.7	2.0	0.0	0.7	0.6	3.2

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	65		52		16	
Shrub cover	43		51		13	
Grass/forb cover	44		49		87	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		67		33	
High terrace	33		33		67	
Low terrace	17		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 (%)	27		32		17	

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	589
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	20

Average number of trees in a 5-m wide band

<u>Diameter class (cm)</u>	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.3	2.7
15-30cm	0.3	2.3
30-50cm	0.0	4.0
50-90cm	0.7	0.7
>90cm	0.3	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

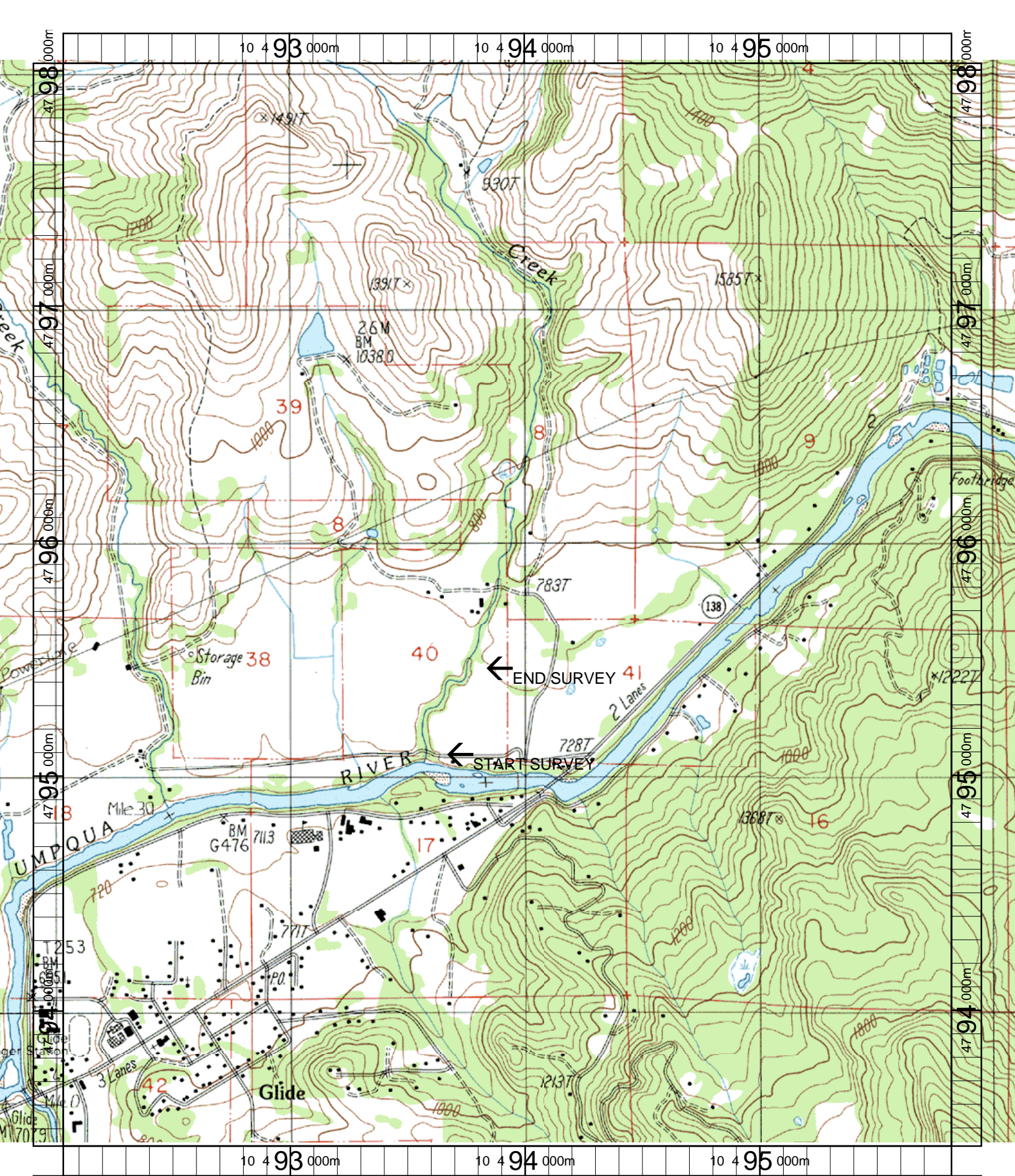
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
13	LF	1	HT	0	85	65	30	Conifer							
								Hardwood		1			1		
13	RT	2	HS	60	85	10	90	Conifer							
								Hardwood	4	1	1				
13	RT	3	HT	0	10	0	100	Conifer							
								Hardwood							
13	RT	1	HS	70	85	15	35	Conifer	1	1					
								Hardwood		3	5				
13	LF	3	HS	60	70	30	70	Conifer							SLOPE OF OLD UMPQUA TERRACE
								Hardwood	1						ESTIMATED ZONE 2 AND 3
13	LF	2	HT	0	15	95	5	Conifer							
								Hardwood							
21	LF	1	HT	0	55	70	30	Conifer							ESTIMATED 1&2
								Hardwood							(R) ACKRFRRI
21	LF	2	HS	40	10	100	0	Conifer							HS OF ANCIENT
								Hardwood							UMPOIA OLD ANCIENT TERRACE
21	LF	3	HT	0	0	0	100	Conifer							
								Hardwood							
21	RT	1	HS	60	60	10	70	Conifer							
								Hardwood	3		2	1			
21	RT	2	HS	60	75	70	30	Conifer							
								Hardwood							
21	RT	3	HT	0	0	0	100	Conifer							
								Hardwood							
30	LF	1	LT	0	15	100	0	Conifer							PHOTO 100-0001
								Hardwood		1	4				RIPARIAN
30	LF	2	HT	0	65	30	70	Conifer					2		
								Hardwood							
30	LF	3	HS	40	15	50	50	Conifer							
								Hardwood		1					
30	RT	1	HS	30	90	0	100	Conifer						1	CEDAR; SLOPE OF HIGH
								Hardwood							
30	RT	2	HS	30	60	0	100	Conifer							
								Hardwood							
30	RT	3	HT	0	0	0	100	Conifer							ANCIENT OLD TERRACE
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **4-UMP** SITE ID: **187** FRENCH CREEK PRE-TX (U-187)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	SR	00	3.5			START AT CONFLUENCE AQI
5	PP	00	35	SS,CS/CS		
6	SS	00	35.05		H=.5M	
7	CC	00	47.35	CC		DIA=2x2.5 GALVINIZED
9	LP	00	73.15		ESTIMATED;OLDTERRAC	
11	LP	00	111.65			SCHOOL OF SALMONIDS (20
13	LP	00	154.65		TH=8TW=40VWI=20OLDU	
18	RB	00	223.15		OLD HIGH TERRACE DO	OLD HIGH TERRACES DOWN
21	LP	00	251.15			CO COMMENT CODE
27	RB	00	311.15			BLUEWHITE FLAGGING
29	LP	00	331.65		REACH PHOTO 100-0002	
30	RB	00	352.65	/LS		
41	LP	00	536.75			END SURVEY AT SIGN



<p>Name: GLIDE Date: 6/11/2003 Scale: 1 inch equals 1666 feet</p>	<p>Location: 10 493922 E 4795731 N Caption: FRENCH CREEK RESTORATION SITE - NORTH UMPQUA BASIN</p>
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