

Table 6. Physical Habitat Quality Data for Benthic Macroinvertebrate Sites on Silver Fork American River Section, El Dorado Irrigation District, FERC Project 184, Fall 2001.

	Silver Fork American River: SV-B2 0.25 mi Downstream of Campsite				Silver Fork American River: SV-B1 At China Flat Campground				Caples Creek: CA-B1 Top of Site Below Weir				Oyster Creek: OY-B1 Downstream of Hwy 88 and Weather Station				Woods Creek: WC-B1 Upstream of Caples Lake				Sherman Canyon Creek: SH-B1 0.5 mile upstream of confluence			
	Riffle sampled			Mean	Riffle sampled			Mean	Riffle sampled			Mean	Riffle sampled			Mean	Riffle sampled			Mean	Riffle sampled			Mean
	1	3	5		2	3	5		2	3	4		2	3	4		1	2	3		1	2	3	
Sampling information																								
Date Sampled	10/18/2001				10/23/2001				10/18/2001				10/18/2001				10/23/2001							
Time Sampled	16:00				9:30				12:00				14:20				10:00				13:00			
UTM					4292717				7-56-320E								4285880							
GPS					10-S-0737383				10-42-88-347N								10-S-0743648							
Elevation					7746				7746															
Site characteristics																								
Canopy cover (%)	5.0	5.0	10.0	6.7	10.0	10.0	50.0	23.3	10.0	20.0	35.0	21.7	5.0	65.0	5.0	25.0	20.0	5.0	20.0	15.0	10.0	5.0	5.0	6.7
Gradient (%)	0.5	0.5	1.0	0.7	1.0	0.5	1.0	0.8	0.5	0.8	0.8	0.7	2.0	0.2	2.5	1.6	<0.5	1.0	<0.5	<0.5	2.0	1.0	1.0	1.3
Transect Location (ft)	61.0	14.0	24.0	33.0	14.0	10.0	51.0	25.0	30.0	63.0	41.0	44.7	10.0	15.4	8.4	11.3			spot	21.0	19.0	17.0	19.0	
Elevation (m)									2318															
Reach Length (ft)	218.0				524.0				530.0				175.0				184.0				300.0			
Physical characteristics																								
Riffle Length (ft)	70.0	17.0	30.0	39.0	17.0	12.0	60.0	29.7	34.0	71.0	51.0	52.0	16.0	18.0	13.0	15.7	42.0	26.0	48.0	38.7	26.0	21.0	19.0	22.0
Avg. Riffle Width (ft)	28.5	28.0	12.0	22.8	35.0	50.0	28.0	37.7	28.0	28.0	24.0	26.7	15.5	5.5	5.5	8.8	4.0	3.0	10.0	5.7	18.0	15.0	10.5	14.5
Avg. Riffle Depth (ft)	1.32	0.50	0.98	0.93	1.38	0.87	0.93	1.06	0.85	0.81	1.32	0.99	0.22	0.28	0.27	0.26	0.90	0.90	1.10	0.97	0.22	0.33	0.30	0.28
Riffle Velocity (ft/s)	1.64	1.79	1.42	1.62	2.49	1.63	2.38	2.17	2.31	1.63	1.54	1.83	0.98	1.62	1.83	1.48	-0.85	-0.21	-0.21	-0.42	0.38	0.09	0.35	0.27
Substrate Complexity	32.0	32.0	32.0	32.0	27.0	27.0	27.0	27.0	29.0	29.0	29.0	29.0	12.0	12.0	12.0	12.0	6.0	6.0	6.0	6.0	14.0	14.0	14.0	14.0
Embeddedness (%)	25.0	50.0	10.0	28.3	15.0	25.0	5.0	15.0	5.0	5.0	10.0	6.7	1.0	1.0	1.0	1.0	0.0	10.0	5.0	5.0	N/A	70	60	65.0
Substrate Consolidation	med.	med.	med.	med.	low	med.	low	low	low	low	low	low	low	low	low	low	low	low	low	low	high	high	high	high
Specific Conductance (u S)	13.50				15.50				17.70				66.20				35.90				39.40			
Dissolved Oxygen (mg/l)	8.83				11.73				8.97				8.96				3.75				10.16			
Water Temp (C°)	13.70				8.10				12.10				13.10				5.00				9.10			
Physical Habitat Quality Score	149.0				139.0				146.0				106.0				92.0				92.0			
Substrate Composition																								
Fines (<0.1")	10.0	10.0	10.0	10.0	5.0	10.0	5.0	6.7	10.0	30.0	5.0	15.0	35.0	35.0	35.0	35.0	20.0	25.0	30.0	25.0	2.0	2.0	5.0	3.0
Gravel (0.1-2")	15.0	10.0	15.0	13.3	10.0	35.0	25.0	23.3	30.0	50.0	15.0	31.7	65.0	65.0	64.0	64.7	17.0	14.0	40.0	23.7	2.0	3.0	5.0	3.3
Cobble (2-10")	25.0	25.0	50.0	33.3	45.0	35.0	55.0	45.0	60.0	15.0	30.0	35.0	0.0	0.0	1.0	0.3	3.0	1.0	10.0	4.7	1.0	5.0	20.0	8.7
Boulder (>10")	50.0	45.0	15.0	36.7	35.0	20.0	5.0	20.0	0.0	0.0	45.0	15.0	0.0	0.0	0.0	0.0	60.0	60.0	20.0	46.7	15.0	5.0	60.0	26.7
Bedrock (solid)	0.0	10.0	10.0	6.7	5.0	0.0	0.0	1.7	0.0	5.0	5.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	85.0	10.0	58.3