

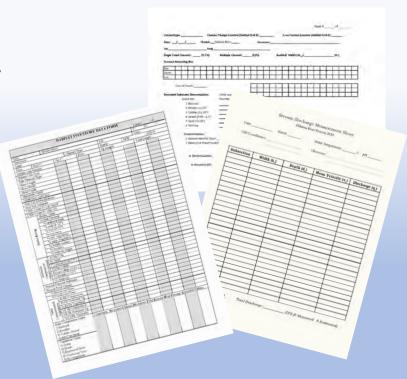
Eklutna River Habitat Characterization Study



Native Village of Eklutna

- Habitat assessment followed the California Salmonid Stream Habitat Restoration Manual (CSSHRM) (Flosi et al., 2010).
 - A previous study in 2007 used the same method (*CSSHRM, 1998*) for the river from the mouth to Thunderbird Falls. It was decided to use the same methods for the whole river so that data could be compared.
- Substrate and vegetation were surveyed to determine reaches.
- In each reach, flow data and water temperature were recorded
- Photos were taken of each reach









Eklutna Lake Dam, looking upriver



- 11.85 miles of river
- 11 reaches
- 125 units
- Average Depth 12 inches (0"- 96")
- Average Width 19 feet (2' >200')
- Average water temp 8° C
- 16% of in-stream shelter
- 61% canopy cover
- 75% banks are vegetated

Avg. Depth (in)	13.43
Avg. Width (ft)	34.83
Approx. Length (ft)	1813.00
Approx. Length (miles)	0.34
continuous water flow	У
% watered	100
CFS	32.46
Flood Prone Width (ft)	54.1
Dominate Substrate	Cobble
current bankfulls (in)	28
max bankfull depth (in)	14
Instream shelter (%)	10.7
Total canopy (%)	0





20.70	Avg. Depth (in)
33.44	Avg. Width (ft)
4025	Approx. Length (ft)
0.76	Approx. Length (miles)
Y	continuous water flow
100	% watered
55.03	CFS
55.03 n/a	CFS Flood Prone Width (ft)
	0.0
n/a	Flood Prone Width (ft)
n/a n/a	Flood Prone Width (ft) Dominate Substrate
n/a n/a 24	Flood Prone Width (ft) Dominate Substrate current bankfulls (in)
n/a n/a 24 12	Flood Prone Width (ft) Dominate Substrate current bankfulls (in) max bankfull depth (in)



Avg. Depth (in)	12.75
Avg. Width (ft)	15.25
Approx. Length (ft)	3778
Approx. Length (miles)	0.72
continuous water flow	Y
% watered	100
CFS	19.1
Flood Prone Width (ft)	n/a
Dominate Substrate	gravel
current bankfulls (in)	24
max bankfull depth (in)	12
max bankfull depth (in) Instream shelter (%)	12 10.6





Avg. Depth (in)	18.75
Avg. Width (ft)	33.67
Approx. Length (ft)	3780.7
Approx. Length (miles)	0.72
continuous water flow	Y
% watered	100
CFS	37.1
Flood Prone Width (ft)	n/a
Dominate Substrate	Cobble
current bankfulls (in)	36
max bankfull depth (in)	18
Instream shelter (%)	20.6
Total canopy (%)	74.4



Avg. Depth (in)	9.92
Avg. Width (ft)	16.07
Approx. Length (ft)	6040
Approx. Length (miles)	1.14
continuous water flow	Y
% watered	100
CFS	3.8
Flood Prone Width (ft)	28
	Gravel and
Dominate Substrate	silt/clay
current bankfulls (in)	12
max bankfull depth (in)	6
Instream shelter (%)	4.6
Total canopy (%)	52.9





Avg. Depth (in)	11.91
Avg. Width (ft)	17.35
Approx. Length (ft)	4441
Approx. Length (miles)	0.84
continuous water flow	Y
% watered	100
CFS	10.8
Flood Prone Width (ft)	80
Dominate Substrate	gravel
current bankfulls (in)	20
max bankfull depth (in)	10
Instream shelter (%)	10.4
Total canopy (%)	50



Reach 8

7.45	Avg. Depth (in)
9.55	Avg. Width (ft)
4781	Approx. Length (ft)
0.91	Approx. Length (miles)
Y	continuous water flow
100	% watered
6.8	CFS
49	Flood Prone Width (ft)
sand	Dominate Substrate
20	current bankfulls (in)
10	max bankfull depth (in)
21.4	Instream shelter (%)

Total canopy (%) 95.9



Avg. Depth (in)	6.21
Avg. Width (ft)	6.36
Approx. Length (ft)	4308
Approx. Length (miles)	0.82
continuous water flow	Ν
% watered	100
CFS	2.6
Flood Prone Width (ft)	67
Dominate Substrate	sand
current bankfulls (in)	10
max bankfull depth (in)	12
Instream shelter (%)	18.9
Total canopy (%)	86



Avg. Depth	(in) 9	9.24
Avg. Width	n (ft) 1	3.65
Approx. Length	n (ft) 10	0994
Approx. Length (m	iles) 2	2.08
continuous water	flow	Ν
% wate	ered	100
	CFS 2	2.76
Flood Prone Width	n (ft)	35
Dominate Subst	rate co	bble
current bankfulls	(in)	12
max bankfull depth	(in)	6
Instream shelter	· (%) 1	16.8
Total canopy	(%)	73.6



Avg. Depth (in)	11.00
Avg. Width (ft)	17.33
Approx. Length (ft)	15744.78
Approx. Length (miles)	2.98
continuous water flow	Ν
% watered	0.55
CFS	-
Flood Prone Width (ft)	-
Dominate Substrate	-
current bankfulls (in)	_

- current bankfulls (in) max bankfull depth (in) -
 - Instream shelter (%) 17.9
 - Total canopy (%) 68.3













Reach 2, beaver dam



Reach 10, beaver dam



Reach 7, rafting though a flooded area in the canyon

Łiq'a nagh qinqtudeł

We are hopeful the salmon will return to us.