

DOUGLAS PARKINSON & ASSOCIATES

STREAM MONITORING • ELECTROFISHING • INSTREAM FLOW STUDIES • SEDIMENT SAMPLING

January 22, 1984

Richard Hunn
OTT WATER ENGINEERS
2334 Washington Avenue
Redding, CA 96001

SUBJECT: BLUFF SPRINGS CREEK ELECTROFISHING

Dear Rich:

Bluff Springs Creek was successfully electrofished on January 20, 1984 as you requested during our telephone conversation on January 16, 1984.

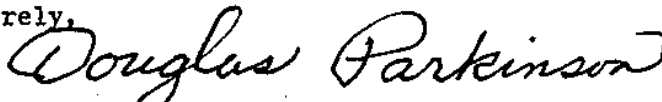
I contacted Dave Hoopaugh, Environmental Services, California Department of Fish and Game, prior to the electrofishing on Bluff Springs Creek. Mr. Hoopaugh recommended the use of a stationary block net and, if possible, a 300-foot study reach to be sampled by the three-pass removal method. The study reach site selection was left to my discretion. However, photographs of the study reach were requested.

All of Mr. Hoopaugh's recommendations were observed on January 20. Despite difficult electrofishing conditions because of the high velocities, associated turbulence, abundant undercut banks and streamside ferns, the declining rate of the captured fish (Table 1) in each succeeding pass indicates our efforts were successful in removing a majority of the fish present in the study reach. Rainbow trout were the only fish captured. The population was estimated using the Moran-Zippen formula. The numbers of rainbow trout in 300 lineal feet of stream are 26 ± 5 at 95 percent confidence, with a probability of capture at .57 and a variance of .016.

A copy of my original field notes are enclosed. I have also enclosed my billing statement for the work on January 20, 1984. I appreciate the opportunity to work with you, and I would like to commend you on the efficiency and ability of your field crew, comprising of Jerry Leroy and Carol Newton.

If I can be of any further assistance, please contact me.

Sincerely,



DOUGLAS B. PARKINSON

DP/gp

Enc. Table 1
Billing Statement

TABLE 1 LENGTH FREQUENCY AND NUMBERS OF RAINBOW TROUT
 CAPTURED IN BLUFF SPRINGS CREEK, January 20, 1984

First Pass	Second Pass	Third Pass
<u>Length (mm)</u>	<u>Length</u>	<u>Length</u>
180		
125	125	145
115(3)	120	135
110(2)	115(2)	125
90(2)	100	
75	65	
70(2)		
65		
60(2)		
<u>2 Misses</u>	<u>0 Misses</u>	<u>1 Miss</u> (Approx. 180 mm)
Total 15	6	3