

# Memorandum

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To : Mr. J. O. Frager  
Regional Manager  
California Department of Fish and Game  
Region 3  
P.O. Box 47  
Yountville, CA 94599

Date : July 17, 1974

File No. 2215.00

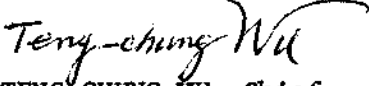
From : **San Francisco Bay Regional Water Quality Control Board**  
1111 Jackson Street, Oakland 94607 (RJC)

Subject: Sonoma Creek Water Quality Data - May 29, 1974 Survey

Attached are the water quality analyses on samples collected by DWR for the Regional Board at seven (7) stations on the Sonoma Creek on May 29, 1974.

The water quality survey was made, at the suggestion of Fish and Game, after field surveillance had established that steelhead runs had increased significantly this past season.

We have also completed baseline surveys on the Petaluma River system during the months of October and November, 1973, and May and June, 1974. This data is in our files if you ever desire copies.

  
TENG-CHUNG WU, Chief  
Surveillance and Analysis Div.

TCW/gan  
Attachment:  
1

CHECKING PROGRAM REPORT  
RECEIVING WATER DATA

May 29, 1974

Current Resolution No. \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_  
 Date of Sampling and Observations Sonoma Creek Estimated Upstream Flow \_\_\_\_\_ cfs  
 Predicted Time and Elevation of Tide: HH \_\_\_\_\_ LL \_\_\_\_\_ LH \_\_\_\_\_ HL \_\_\_\_\_

PHYSICAL & CHEMICAL DETERMINATIONS

SAMPLING STATION NO.		#1	#2	#6	#7	#8	#9	#10			
Sampling Time	hours	1400	1330	1245	1210	0930	1000	1100			
Temperature	°C	72	71	72	67	66	64	61			
pH	---	7.7	7.8	7.9	7.5	8.1	7.4	7.5			
Secchi-Disc	E.C. (ft)	12800	12350	15200	1458	223	240	325			
Dissolved Oxygen	mg/l	6.5	6.0	7.6	9.0	11.5	9.4	9.3			
Total Sulfide Toxicity	mg/l FTU	145	130	300	1	1	1	1			
Dissolved Sulfide Solids	mg/l	55.00	64.00	58.3	2.66	2.18	1.99	2.25			
Coliform Susp. Solids	MPN/100ml	293	214	-	7	8	10	5			
Water Depth	feet										
Wind direction	knots										
	Nth-N	0.66	0.67	0.65	0.61	0.61	0.60	0.60			
	Nth-N	0.13	0.14	0.38	0.52	0.22	0.15	0.08			
	Pres. Cond	0.4	0.4	0.3	0.3	0.2	0.2	0.1			
	Conduct-P	0.31	0.30	0.33	0.05	0.02	0.03	0.03			
	Total-P	0.38	0.44	0.57	0.06	0.05	0.16	0.05			

QUALITATIVE OBSERVATIONS

Oil Globules											
Oil Iridescence											
Grease											
Paper											
Feces											
Rubber Goods											
Debris (specific)											
	Flow CFS				15E	8E		2F			
	Gate hT						2.67				
Odor											
Color											

REMARKS: #1 Sonoma Cr. at sewer pt Road  
 #2 " south of 2nd Napa St  
 #6 " at McGill  
 #7 " at Hwy 21  
 #8 " at Leavens Rd  
 #9 " at Myra Caliente  
 #10 " at Kewwood