MEMORANDUM

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State of Washington Department of Ecology

TO: Jim Oberlander

FROM: Darrel Anderson

SUBJECT: Water Quality Survey of Sequim Bay, Clallam County

DATE: August 31, 1976

On June 14, 1976, Gerald McDonald and myself conducted a water quality assessment of Sequim Bay, Clallam County, as requested by Jim Oberlander (Southwest Region), memo dated June 10, 1976. The memo stated that due to intense public interest regarding present operations and proposed developments at Sequim Bay, a water quality assessment would be requested. The memo included a map with all the sampling locations, of which sample stations denoted as "D" corresponded to stations used by Battelle Marine Research Lab, during their 1975 study. Included also were all parameters to be tested, which COD was not done due to too much chloride interference (see field and lab data sheet).

The complete series of stations were sampled at both high and low tides, except for the volatile solids, which were taken at low tide. No depth samples were taken.

Bacteriological results indicate no high counts at any of the stations while turbidity at station y-4 was slightly higher than the others, possibly due to wave action and log dumping in the area.

The low values shown for volatile solids do not indicate any significant problem. In order to get a better handle on volatile solids for Sequim Bay, more transect stations should be sampled throughout the Bay, so that an overall comparison can be made.

DLA:ee

Attachment

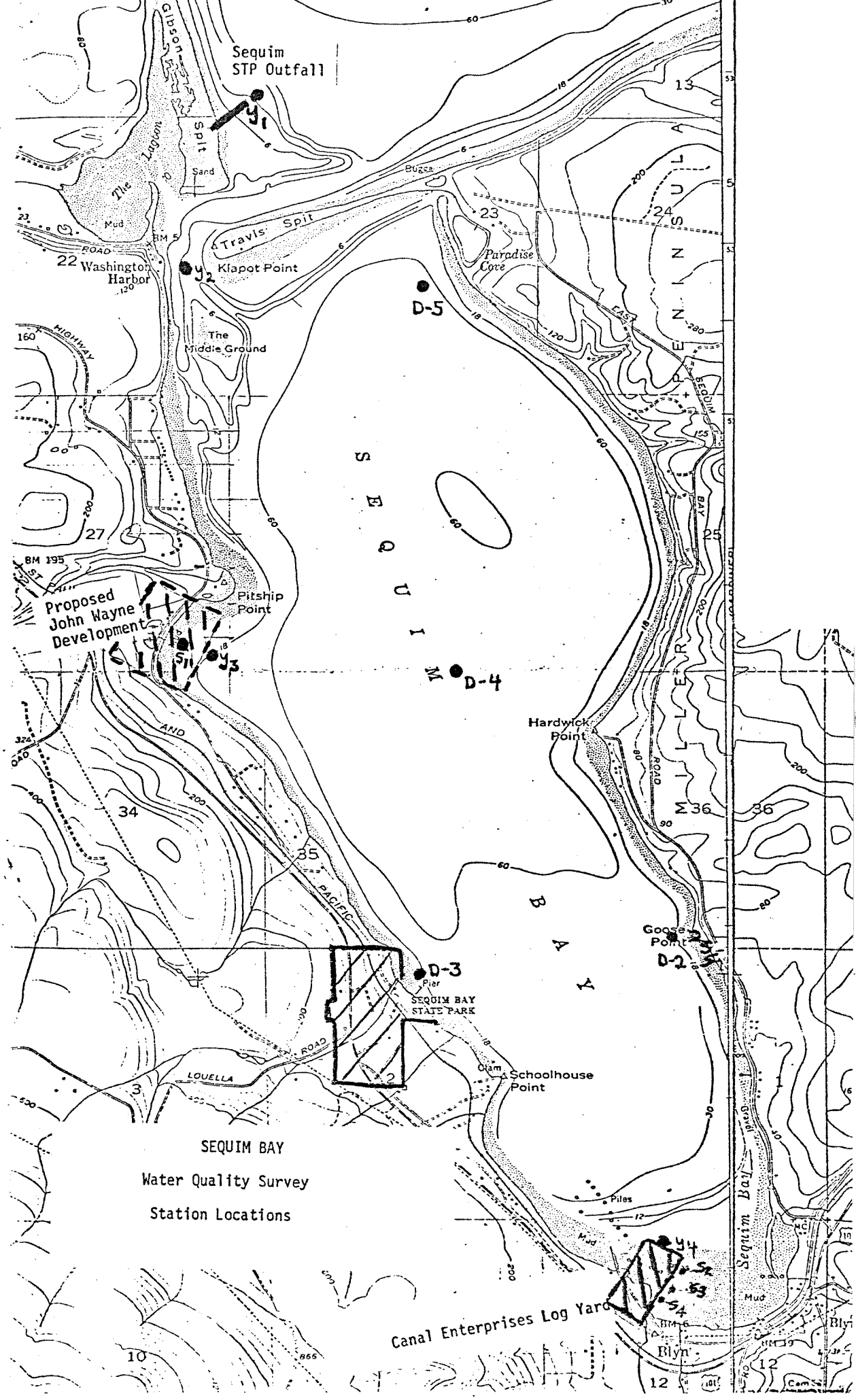
SEQUIM BAY - WATER QUALITY SURVEY

June 14, 1976

Field Data							Lab Data							Volatile Solids (grams)			
Sta.	Time	Tide Hgt.	Temp °C	Sal 0/00	D.O. ppm	pH SU	T.Col.	F.Col.	NO_2-N	NO_3-N	Turb.	PBI	T. Oil	Sta.	Total Solids	Vola-tile	% vola-tile
Y-1	1145	L	10.3	33.2	9.8	7.6	<2	<2	<0.1	0.18	2	<5					
	1830	H	11.4	33.1	EF	8.0	<2	<2	<0.1	0.19	4	<5					
Y-2	1200	L	10.5	33.6	9.7	6.9	<2	<2	<0.1	0.13	5	<5					
	1845	H	9.2	34.0	EF	7.7	<2	<2	<0.1	0.26	3	<5					
Y-3	1210	L	11.5	32.8	8.8	7.7	<2	<2	<0.1	0.14	3	<5		S-1	18.17	17.03	6.2
	1900	H	12.0	33.5	EF	7.8	Est. 2	Est. 2	<0.1	0.14	3	<5					
D-3	1230	L	11.3	31.4	9.2	7.8	<2	<2	<0.1	0.09	3	<5					
	1910	H	12.7	33.9	EF	7.8	Est. 4	Est. 2	<0.1	0.10	5	<5					
Y-4	1240	L	12.8	30.1	8.5	8.0	Est. 2	<2	<0.1	<0.01	3	<5	ND	S-2	21.78	20.44	4.1
														S-3	22.35	20.84	4.5
														S-4	17.98	16.00	6.3
	1920	H	17.8	33.0	EF	8.0	Est. 60	Est. 2	<0.1	< .01	9	<5	ND				
D-2	1310	L	11.8	31.6	8.8	8.2	<2	<2	<0.06	0.02	6	<5		S-5	26.97	26.60	1.1
	1925	H	13.7	33.5	EF	8.2	<2	<2	<0.1	< .01	5	<5					
D-4	1325	L	11.9	31.0	8.6	8.0	<2	<2	<0.1	0.05	3	<5	ND				
	1930	H	11.0	33.8	EF	8.0	<2	<2	<0.1	0.09	3	<5	ND				
D-5	1330	L	10.4	34.0	8.2	8.0	<2	<2	<0.1	0.10	4	<5					
	1940	H	10.5	33.5	EF	8.0	<2	<2	<0.1	0.12	3	<5					

EF = Equipment Failure

NOTE: All results are reported in PPM unless otherwise specified.
(ND is "none detected").
Too much chloride interference to report COD



SEQUIM BAY

Water Quality Survey

Station Locations