ГО:	Ron Pine & Mike Price	State of
FROM:	Darrel Anderson	Washington Department of
SUBJECT:	M & R Timber Co. Dredge Operation – Port Angeles	Ecology
DATE:	April 10, 1973	

On March 27, 1973, M & R Timber Company initiated a dredging project in front of the old Fiberboard dock in Port Angeles Harbor. Due to the presence of sludge beds in the immediate area, water quality standards were of a major concern.

Preliminary to the dredging, water samples were taken at various stations near the dredging site. Secchi-disk readings ranged from 10 to 12 feet, dissolved oxygen averaged 6.9 ppm and sulfides were zero.

Dredging started at about 1030 and two trucks were used to transport spoils to fill site. Initial water samples near the dredge indicated sulfide readings of .2 - .4 ppm, samples taken 20 - 30 feet away had zero sulfide readings. Secchi-disk readings near the dredge were 4 - 6 feet and 20 - 30 feet away the readings were 8 - 12 feet.

All water quality problems stayed very localized in the immediate area of the dredge. Fish or marine life mortality was not observed during the three days of observation. An oil film was observed on the water during the second day of dredging but was not significant enough to warrant cleanup action.

DFA:bi

Attachments

Approx. Sampling areas KIramway DISPOSAL\ Sampling Locations for: Port Angeles Harbor Dredging at OLD FIRERSOND Dock.

MER TIMBER TO.

TABLE OF RESULTS Field Results

S--Surface M--Mid-depth B--Bottom

3-27-73 Before Dredging (0925 - 1020 hours)

Station	Secchi-Disk (Feet)	Sulfides (ppm)	0.0. (ppm)
I-B	10	0	6.7
E-B	12	0	6.5
E-S		0	
K-B	9.5	Ó	7.5

3-27-73 After Dredging Started

Time	<u>Station</u>	Secchi-Disk (Feet)	Sulfides (ppm)	D.O. <u>(բթ</u> m)
*1055	I-B	- -	<.4	
1105	I-5	4		
1120	I-M	8	.2	6.3
1200	I -B	4.5	O	7.5
1335	I-S	5	Ö	7.0
1345	K-B	12	σ	

^{*}Sample taken next to dredge,

3-28-73 Dredging in Progress

<u>Time</u>	Station	Secchi-Disk (Feet)	Sulfides <u>(ppm)</u>	D.O. (ppm)
0840	A-S	16	0	
0845	A-M		0	8.2
0900	E-S	10	σ	-
0915	E-B		0	7.6
0930	F-\$	14	0	8.4
0945	F-B		а	
*1130	I-\$. 4	
1330	E-S	10	0	
*1345	1-\$	¬-	.4	
1400	E-B		0	7.9

^{*} Sample taken at dredge upwelling - sulfides localized

Field Results (Continued)

3-29-73

All field results follow same pattern as previous day.

3-30-83

No dredging - both trucks broke down.

Lab Results

C+-+1	т.	ь.		Turbidity		Salinity
<u>Station</u>	<u>Time</u>	Date	<u> Hq</u>	JTU	PBI	0/100
: ¶-B	1200	3-27	7.7	3	50	29
I-M	1330	3-27	7.8	5	28	29
I-S	1340	3-27	7.4	2	50	28
E-B	0915	3-28	7.7	2	18	29
F-\$	0930	3-28	7.8	1	28	28
2-I *	1130	3-28	7.6	1	41	29
*E-B	1400	3-28	7.8	9	63	28

*I-S COD - 478

^{*} At dredge upwelling

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

ORIGINAL TO: COPIES TO:

WATER QUALITY LABORATORY

2			DATA	SUMMA	RY					LAB FILES
Date Collected 3-28 to			3-28 09:00	1250 T	3-21-	33	oal, Pr	100000	D.A	
Log Number: 73-	1266	1267	1268	1267	1270	1531	1272	12>3		STORET
Station:	I-SUR	E-B	F-8	I-M	I-13	F- S	I-81	e-3		
pH	-	7.7	7.8	7.8	7.)	7.4	7.6	2.8		00403
Turbidity (JTU)	_	2.	1	5	3.	2	1	9		00070
Conductivity (umhos/cm)@25c										00095
COD	478									00340
BOD (5 day)										00310
Total Coliform (Col./100ml)										31504
Fecal Coliform (Col./100ml)	1									31616
NO3-N (Filtered)										00620
NO2-N (Filtered)										00615
NH3-N (Unfiltered)										00610
T. Kjeldahl-N (Unfiltered)										00625
0-P04-P (Filtered)										00671
Total PhosP (Unfiltered)										00665
Total Solids										00500
Total Non Vol. Solids										00300
Total Suspended Solids						1				00530
Total Sus. Non Vol. Solids										00330
PBI	_	18.	28.	28.	50	50	41	63		
SALINITY (900)	-	29	SX	29	29	28	29	28		
ı										
							97			

Summary By Styphen D. Roll

Date 4-10-23