

STATE OF WASHINGTON  
**DEPARTMENT OF ECOLOGY**  
DANIEL J. EVANS  
GOVERNOR  
JOHN A. BIGGS

August 28, 1972

Publication No. 72-e34

MEMORANDUM

TO: Gene Asselstine and Mike Price  
FROM: Scott Jeane  
SUBJECT: Grays Harbor Dredging

The afternoon of August 25, I received a phone call from Dan Fisher, Weyerhaeuser Company, concerning a D.O. sag in the Chehalis River. Mr. Fisher first became aware of it after their water quality sampling the previous afternoon. He reported D.O. in the 3.5 ppm range, with percent saturation averaging 45%. These values were below Department of Ecology water quality standards. Mike Price was contacted at 1600 hours, August 25, 1972, and requested that a water quality survey be conducted if the situation deteriorated. At 1830 hours, I contacted ITT Rayonier to obtain more recent D.O. information. Their report revealed lower D.O. values. Saturday morning Ron Pine and I conducted a low tide D.O. survey and that afternoon a high tide survey was completed. See Table I.

The Port of Grays Harbor had initiated dredging on August 21, 1972. At 2400 hours on August 25 the cutter was lost. Dredging was resumed at 1800 hours on August 26. At this time we were able to observe and sample spoil disposal runoff. See Table 2 and Figure 1. The spoil disposal site was not diked and the runoff returned almost immediately to the river.

The Port had applied for an Army Corp Permit on July 21, 1972 (#PN 071-OYB-1-000895). The permit had not been issued as of August 28, 1972. The Department of Game and the Environmental Protection Agency had registered objections with the Department of Ecology against issuance of the permit.

Our water quality survey revealed D.O. values below the Department of Ecology minimum requirements. We recommended to Gene Asselstine that the dredging be ceased. The Department of Fisheries reported that the morning of August 28 the dredge was not operating.

GSJ:bj

Attachments

cc: Harry Tracy  
Ron Pine  
Dept. of Fisheries  
Dept. of Game

Table 1  
Grays Harbor

Date: August 24, 1972

Laboratory: Weyerhaeuser

Station	Time	Depth	Temp °C	pH	D.O. ppm	% Sat.	PBI ppm	Cond.	Salinity ppth
4	1340	Surface	20.0	7.6	5.8	72	35		
		Bottom	19.0	7.7	6.4	78	24		
5		S	20.0	7.5	5.2	64	36		
		B	20.0	7.6	5.6	70	31		
7		S	20.0	7.3	4.5	55	46		
		B	20.0	7.4	4.9	60	38		
8	1409	S	20.0	7.3	4.4	54	47		
		B	20.0	7.3	4.8	59	39		
9		S	20.0	7.2	4.7	57	49		
		B	20.0	7.2	3.9	48	49		
10		S	20.0	7.1	3.8	46	48		
		B	20.0	7.1	3.7	45	52		
11		S	20.0	7.1	3.8	45	47		
		B	20.0	7.1	3.6	43	49		
12		S	20.0	7.1	4.3	51	38		
		B	20.0	7.1	3.8	46	43		
13	1450	S	20.0	7.2	5.9	68	24		
		B	20.0	7.1	4.7	55	32		

Date: August 25, 1972

Laboratory: ITT Rayonier

4	1410	S			6.6				
		B			6.4				
5		S			6.0				
		B			5.9				
7		S			4.9				
		B			5.1				
8		S			4.6				
		B			4.8				
9		S			4.3				
		B			4.0				
10		S			3.3				
		B			3.5				
11		S			3.6				
		B			3.1				
12		S			3.7				
		B			3.3				
13		S			4.2				
		B			3.6				

Table 1 (Continued)

Date: August 26, 1972			Laboratory: Department of Ecology						
Station	Time	Depth	Temp °C	pH	D.O. ppm	% Sat.	PBI ppm	Cond.	Salinity ppth
3	0945	S	20.1		3.2		54	27.9	19.4
		B	19.9		3.5		50	31.2	21.9
4	0952	S	20.0		3.3		50	20.9	17.2
		B	20.0		3.0		54	27.9	19.3
5	1005	S	19.8		3.9		54	21.2	14.4
		B	19.9		3.1		77	24.4	16.8
6	1010	S	19.8		4.4		41	18.8	12.7
		B	19.8		3.5		41	23.8	16.4
7	1019	S	19.9		---		23	18.1	12.2
		B	19.9		4.2		32	23.8	16.4
8	10.25	S	19.8		4.7		23	18.1	12.2
		B	19.7		4.1		27	21.5	14.7
9	1033	S	19.8		6.0		14	11.8	7.7
		B	19.6		4.1		23	13.7	9.0
10	1040	S	19.7		6.0		18	9.1	5.9
		B	19.6		5.9		18	10.4	6.9
12	1050	S	19.6		6.8		14	5.4	3.5
		B	19.5		6.3		--	5.4	3.5
1	1355	S	10.6		5.1		19	37.3	33.4
		B	10.3		5.4			37.5	33.6
2	1435	S	17.7		6.5			41.5	31.6
		B	16.8		6.4			41.9	32.7
3	1440	S	18.4		7.0		18	41.5	31.2
		B	17.4		6.3		14	41.5	31.7
4	1450	S	18.8		6.0		27	40.6	30.2
		B	17.9		6.1		23	40.8	30.9
5	1500	S	19.1		5.2		32	39.5	28.8
		B	18.4		5.6		23	40.0	29.8
6	1505	S	19.3		4.5		45	37.6	27.3
		B	18.6		5.4		27	39.4	29.2
7	1510	S	19.5		4.5		45	37.4	27.1
		B	19.0		5.9		32	38.6	28.2
8	1517	S	20.4		4.1		59	33.0	23.2
		B	19.2		4.8		36	35.3	25.6
9	1525	S	20.1		4.0		50	33.8	23.7
		B	19.7		4.0		59	35.9	25.7
10	1530	S	20.3		3.3		50	31.8	22.3
		B	20.0		3.3		86	32.8	23.1
12	1540	S	20.1		3.4		68	26.4	18.2
		B	20.0		3.3		45	27.6	19.1
14	1550	S	19.9		5.3		45	16.6	11.1
		B	19.9		5.3		--	16.6	11.0

Table 2

## Grays Harbor

Samples taken near dredge and disposal area.

Date: August 26, 1972

Station #	Depth	Time	Cond.	Salinity ppt	Temp. °C	PBI ppm	D.O. ppm	% Sat.
18	S	0920	21.2	14.4	20.2	36	3.8	
18	S	1700	27.2	26.8	19.5	45	4.0	
19	S	0930					3.8	
15	S	1835				41	2.3	
16	S	1840	36.0	25.6	20.1	131	3.7	
17	S	1850	34.4	24.5	20.0	81	3.8	

Table 3

## Grays Harbor

## Sampling Station Description

<u>Station #</u>	<u>Description</u>
1	Midchannel of river, buoy #16, near mouth of harbor at West Port
2	Midchannel of river, buoy #40
3	Midchannel of river, Buoy #42
4	Midchannel of river, lighted marker #50
5	Midchannel of river, directly off ITT Rayonier pulp mill
6	Midchannel of river, directly off port dock between slip #1 & #2
7	Midchannel of river, lighted marker #57
8	Midchannel of river, Hulberts Mill
9	Midchannel of river, UPRR - railroad bridge
10	Midchannel of river, Standard Oil bulk plant
11	Midchannel of river, Bay City mill
12	Midchannel of river, overhead power line, near Weyerhaeuser pulp mill
13	Midchannel of river, lighted marker #6
14	Midchannel of river, lighted marker #10
15	10' of water, 50 yd. downstream of dredge spoil return
16	10' of water, directly above dredge line crossing channel
17	10' of water, 100 yd. upstream of spoil return
18	Surface, middle of slip #1 adjacent to wharf
19	Surface, northwest side of slip #1

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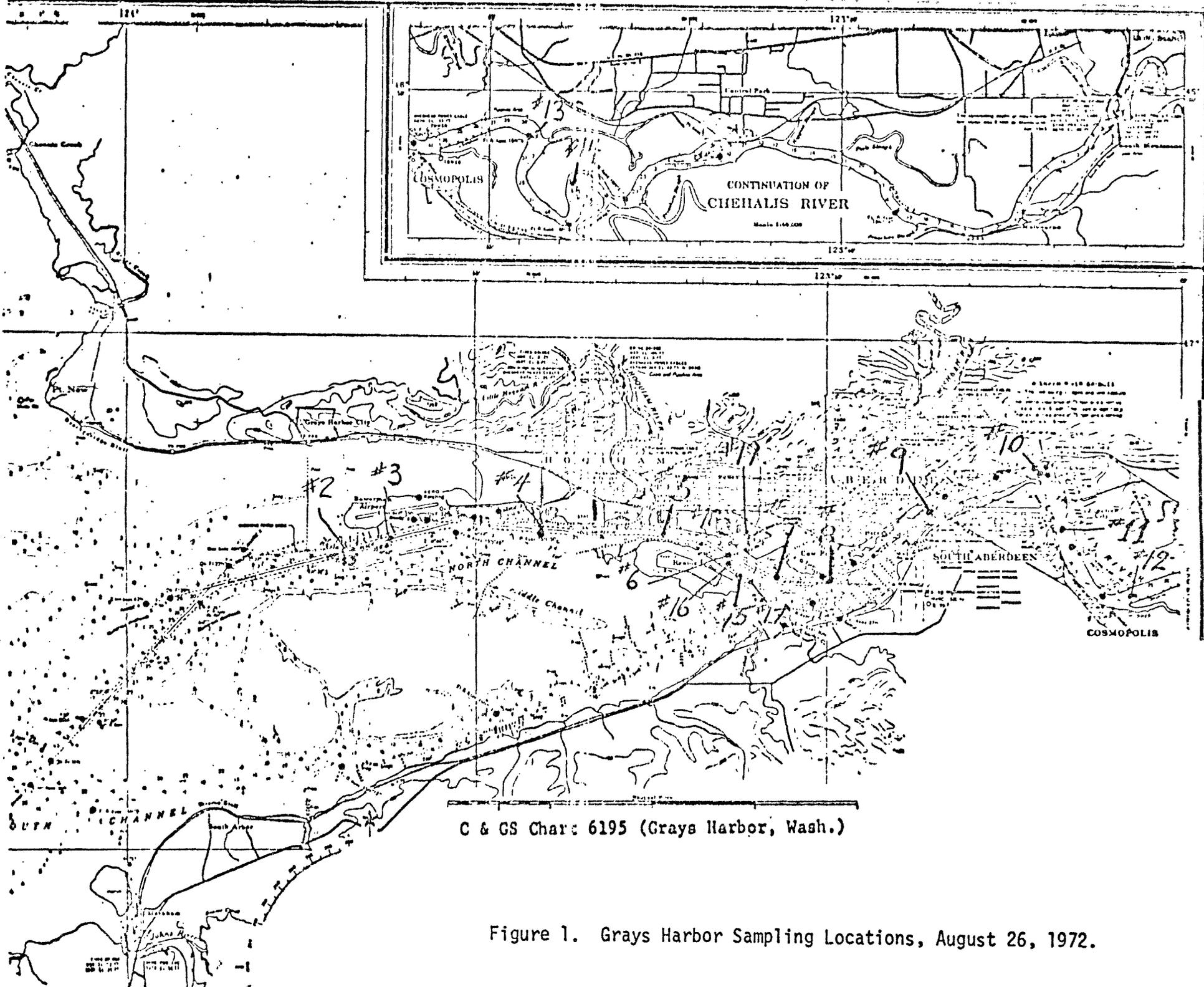


Figure 1. Grays Harbor Sampling Locations, August 26, 1972.

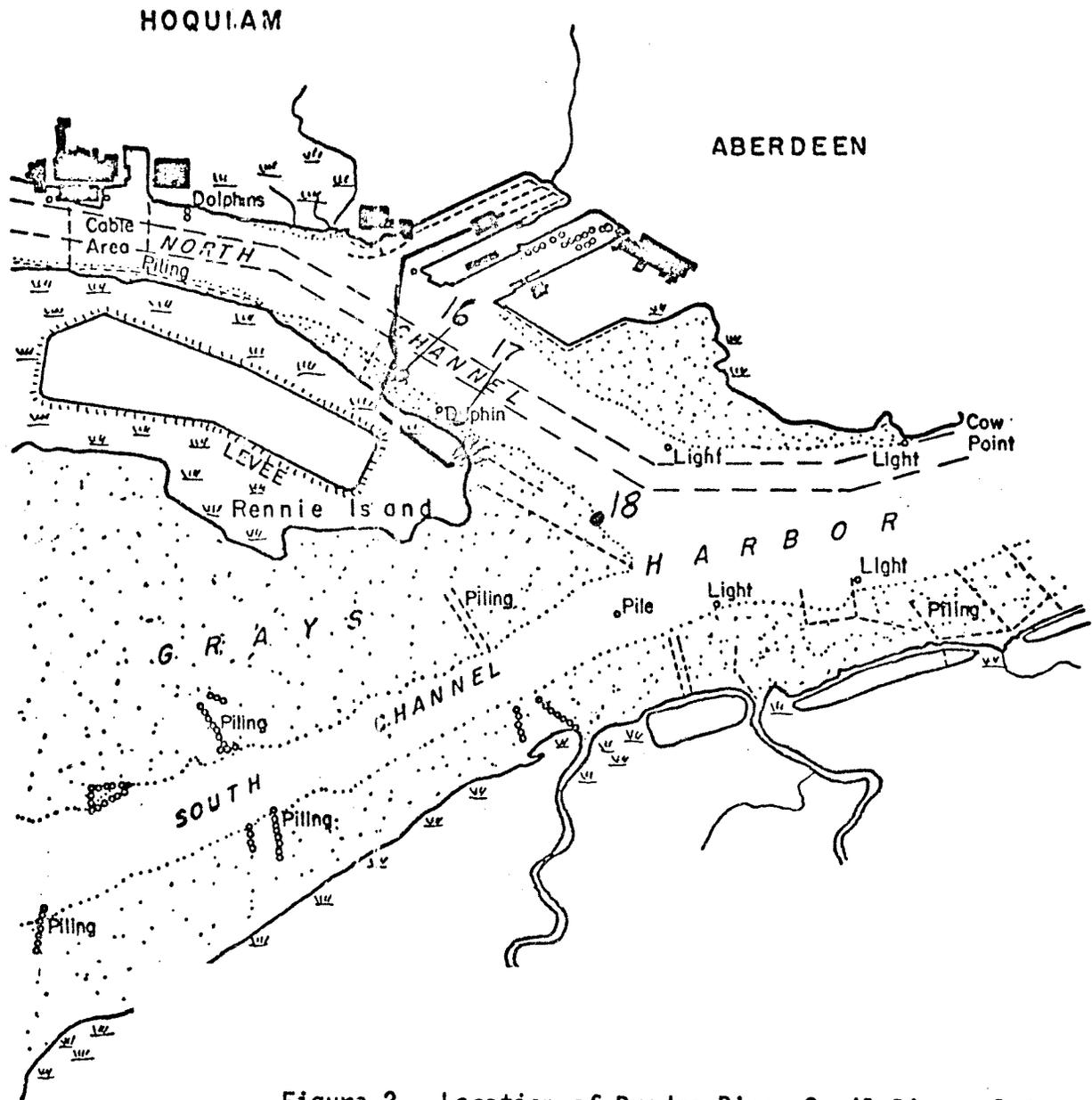


Figure 2 Location of Dredge Pipe, Spoil Disposal Area, and Immediate Sampling Stations, 8/26/72

WASHINGTON STATE DEPARTMENT OF ECOLOGY  
POLLUTION COMPLAINT REPORT FORM

1. Complaint No. \_\_\_\_\_

2. Date of Complaint 8-25-72

3. Date of Investigation 8-26-72

I. Complaint Reported By:

Name Don Fisher Phone No. 532-7110  
Address Waverhauser pulp mill, Cosmopolis  
Date and time complaint first noted 8-24-72  
Other information \_\_\_\_\_

II. Location:

4. Watercourse Chehalis River & Grays Harbor Estuary  
5. Region Northwest ( ) Southwest (X) Eastern ( )  
6. District (1) \_\_\_\_\_ (2) \_\_\_\_\_  
7. County and Town Grays Harbor, Aberdeen, Hoquiam, & Cosmopolis

III. Pollutant:

8. Pollutant Source Dredge Spoils  
9. Material \_\_\_\_\_  
10. Quantity \_\_\_\_\_  
Area or miles affected 12 NAUTICAL MILES  
(If dead or dying fish are visible, fill out Nos. IX, X and XI)

IV. Responsibility:

11. Person or entity: Name Port of Grays Harbor (Bill Cloxini)  
Address \_\_\_\_\_ Phone No. 532-0552  
Violator: Confirmed (X) Suspected ( ) Unknown ( )

V. Cause:

12. Brief Description: Dredging activity at "Slip #1" was denuding soils on East end of Rennie Isle. No settling area was provided. Dredge run off to Grays Harbor caused a D.O. Sag covering 16 NAUTICAL MILES

VI. Complaint Received By:

Name G. Scott JEANE  
Time and date 1500h 8-25-72

VII. Complaint Investigated By: G. Scott JEANE & Ron Pine

VIII. Miscellaneous:

Were pictures taken? No  
Were samples taken? Yes  
Individuals and agencies notified Fish Dept, Port of Grays Harbor, Dept E Regional Office  
Witnesses: Name \_\_\_\_\_  
Address \_\_\_\_\_  
Attachments \_\_\_\_\_