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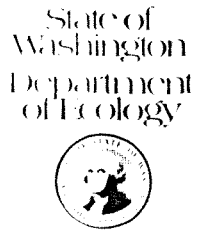
Memo to: Ron Pine

WA-07-0010

From: G. Scott Jeane, II

Subject: Everett Harbor Mercury Levels

Fluctuating Mercury levels were noted in the waters of Everett Harbor during the last six months. Between August, 1972 and January, 1973 we completed six sampling trips to Everett Harbor (See Table #1 and Figure #1). Mercury levels for the sampling trips ranged from:



		<u>High</u>		<u>Low</u>
August 15		5.4 ppb	to	1.4 ppb
August 16		5.1	to	1.6
October 10		.33	to	.11
October 19		.25	to	.08
January 11	Surface	1.4	to	.4
	-5 ft.	2.3	to	.3

Salinity values during all sampling runs were between 20 to 30 ppt and demonstrated a lack of extreme variation. The source of mercury and the reason for the fluctuating values is unknown at present. I will be collecting water samples during 1973 from this area to further document the problem.

I recommend that all industries utilizing mercury in their manufacturing process and discharging to the harbor or its tributaries be required to analyze periodically samples of their effluents for mercury. Sample collection, preservation and analysis should follow standard methods.

TABLE #1 - MERCURY VALUES IN EVERETT HARBOR  
1972 and 1973

Month Day	1972					1973	
	August		October			January	
	15	16	10	11	19	11	
Status							
1	3.0	4.9	.14	.8	.11		
2	1.4	1.6	.25		.11	.7	
3	3.5	2.7			.25		
4	2.1	2.1	.21		.08		
5	3.0	2.3	.33		.11		
6	4.3	5.1	.21		.10		
7	5.4	2.9	.11		.11		
A						1.4	0.3
8	4.5	2.9					
9			.21				
10	2.6	3.0	.33		.11		
11	2.4	3.5			.08		
B						.4	2.3
C						.6	.4
D						.7	.8

(All values in part per billion)

Figure 1. Everett Harbor Sampling Station Locations, 1972

