1/13/71

Jim:

PCB in sediment ~~at~~ or near outfall skimmer:

8/15/69	486 ppm
8/26/69	1000+ ppm in organics - avg of 385+ in sample
9/10/69	348 ppm
10/3/69	112 ppm
11/28/69	70 ppm
10/29/70	86 ppm @ cable
	26 ppm @ skimmer.

I would hesitate to say that the 86 ppm represents a change from the year earlier samples of 112 & 70 ppm.

The 26 ppm figure can be explained by the dredging operation

MONS 061737

PBC in outfall ditch

Assume 100' x 400' above cable at 86 ppm

100' x 400' below cable at 26 ppm.

Assume organic sediment @ 75 #/ft³ and PCB only in 1st one inch.

40,000 ft² x 1/12 x 75 = # sediment in 1" layer = 250,000 #

at 86 ppm = $\frac{250,000 \times 86}{10^6}$ = 21.5 # PCB above cable.

$\frac{250,000 \times 26}{10^6}$ = 6.5 # PCB below cable station - hammer

TOTAL = 28 # PCB

$\frac{28}{5}$ 5.6 billion # H_2O @ 5 ppb.

$\frac{5.6 \times 10^9}{6.25}$ = 0.9×10^8 ft³ H_2O = 90×10^6 ft³

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1 mile sq = 27.9×10^6 ft²

$\frac{90}{27.9}$ = 3.2 sq miles 1 ft deep or $\frac{1}{3}$ / mile sq, 3' deep