



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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M E M O R A N D U M

June 4, 1982

To: Jim Krull
Through: Dick Cunningham
From: Art Johnson *aj*
Subject: Results from Priority Pollutant Analyses of Hooker Intertidal Sediment and Drainage Water below Jones Chemical

The attached table shows data recently received from EPA (organics) and the Tumwater lab (trace metals) pertinent to Hooker Chemical and Jones Chemical on Hylebos Waterway. I collected these samples at the locations shown in the accompanying figure.

A large number of chlorinated compounds was detected in the Hooker sediment, including chlorinated benzenes, hexachlorobutadiene, and 1,1,3,3-tetrachloro-2,3-difluoropropene. Bill Yake's memorandum of April 18, 1981 called your attention to the potential significance of chlorinated propenes in the vicinity of the Hooker facility.

Water from the drainage ditch below Jones Chemical contained greater numbers of chlorinated compounds and other priority pollutants than any of the other Commencement Bay point source samples collected by our section during the summer of 1981. EPA criteria for the protection of aquatic life were not exceeded. Samples were not collected to determine Jones Chemical's contribution of these compounds, if any. This drainage was re-sampled on March 29, 1982 during wet weather flow. The results are not yet available.

AJ:cp

Attachments

cc: Bill Yake
Mike Palko
Frank Monahan
Section Files

<u>Sample Description</u>	<u>Sediment (µg/Kg)</u>	<u>Water (µg/L)</u>	
	<u>Intertidal Sediment below Hooker Seep</u>	<u>Drain at Hylebos Boat Haven below Jones Chemical</u>	
Collection Date	July 31, 1981	August 17, 1981	
EPA Sample Number	J0307	33750	33750 (duplicate)

Organic Priority Pollutants (sediment, ww basis)

2-chlorophenol	N.D.	10m	19
Pentachlorophenol	500m	N.D.	N.D.
Tetrachloroethylene	200	N.D.	N.D.
1,2,4-trichlorobenzene	280	N.D.	N.D.
Hexachlorobenzene	340	10m	10m
1,2-dichlorobenzene	N.D.	19	30
1,3-dichlorobenzene	N.D.	13	25
1,4-dichlorobenzene	N.D.	19	20
4-bromophenyl ether	N.D.	20m	20m
Hexachloroethane	1900	N.D.	N.D.
Nitrobenzene	N.D.	10m	14
Hexachlorobutadiene	520	N.D.	N.D.
Diethyl phthalate	N.D.	10m	14
Dimethyl phthalate	N.D.	10m	10m
Acenaphthene	N.D.	10m	10m
Chloronaphthalene	N.D.	10m	10m
Naphthalene	240	10m	10m
Acenaphthylene	N.D.	10m	11
Flouranthene	200m	N.D.	N.D.
Flourene	N.D.	10m	10m
Anthracene/phenanthrene	200m	10m	10m
3,4-benzofluoranthene/benzo(k) fluoranthene	200m	N.D.	N.D.
Pyrene	500m	10m	10m
Aldrin	690	N.D.	N.D.

Trace Metals (sediment, dw basis)

Metals analyses not duplicated.

Copper	4200	20
Chromium	2900	<10
Cadmium	1200	<5
Lead	6,100,000	40
Nickel	11,000	<10
Zinc	30,000	170
Arsenic	<1000	7
Antimony	100	N.A.
Mercury	<100	0.24

Tentatively Identified Compounds

No tentative identifications.

Thiobismethane	+
Hexadecanoic acid	+
Tetradecanoic acid	+
Pentachlorobenzene	+
1,2,3,5-tetrachlorobenzene	+
1,1,3,3-tetrachloro- 2,3-difluoropropene	+

Percent Solids 73 --

N.D. = Not detected.

N.A. = Not analyzed.

m = Value greater than limit of detection, but less than limit of quantification.

