

DMMP STATUS REPORT

TECHNICAL SUPPORT DOCUMENT FOR DMMP REVISIONS TO THE BIOACCUMULATIVE CHEMICALS OF CONCERN LIST

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INTRODUCTION

The Corps of Engineers, Department of Ecology, Department of Natural Resources, and the Environmental Protection Agency have proposed a process by which they will be revisiting the issue of bioaccumulation and its regulatory implications for sediment management (Malek, J and T.H. Gries, 1998). A key component of this process will be the explicit consideration of ecological as well as human health risk information. One critical step in this process will be revisiting and revising of the Bioaccumulative Chemicals of Concern (BCoC) list. In support of this process, EPA staff have compiled both general and regional information pertaining to the bioaccumulation of sediment associated contaminants and presented this information in a report entitled "Technical Support Document for DMMP Revisions to the Bioaccumulative Chemicals of Concern List" (Hoffman, 1988).

PROBLEM IDENTIFICATION

With advances in the state of our knowledge of bioaccumulation and bioavailability, the DMMP's existing BCoC list has become outdated, not adequately reflecting those chemicals that are actually detected in sediments and tissue of aquatic organisms in Washington State. For example, several contaminants currently on the list are rarely detected in sediments or tissues while other commonly detected contaminants that are expected to bioaccumulate do not appear on the list. The residue-effects database has also grown substantially, since the implementation of PSSDDA, allowing ecological effects of bioaccumulation to be considered in BCoC list revisions.

The purpose of this effort was to collect and summarize regional information characterizing the distribution of contaminants in sediment and tissues. The report also presents general information from the scientific literature pertaining to the persistence and bioavailability of sediment-associated contaminants and the toxicity of bioaccumulated compounds. Using this information, a list of potential chemicals of concern is presented for consideration in upcoming efforts to revise the BCoC list.

STATUS OF WORK

Information in this report was compiled by EPA staff during summer and fall of 1997 and presented to DMMP agencies for review. Following limited internal and external review, the report was finalized and is included as an attachment to this Status Report. The next stop will be to convene a work group to a) further review information presented in the technical support document, b) recommend to the DMMP agencies a "final" BCoC list, and c) recommend to the DMMP how bioaccumulation of chemicals on this list should be addressed in program guidance.

REFERENCES

Malek, J. and Gries T.H., 1998. *DRAFT Revision of Guidelines for Bioaccumulative Chemicals of Concern*, May 1998 DMMP annual review meeting status report.

Hoffman, E.R., 1998. *Technical Support Document for Dredged Material Management Program Revision to the Bioaccumulative Chemicals of Concern List*, Prepared for the DMMP agencies.