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WASHINGTON, D.C. 20036

YWI-424

NOTICE OF RESEARCH PROJECT

SUPPORTING AGENCY: CONNECTICUT STATE GOVERNMENT

AGENCY'S NUMBER(S):

TITLE OF PROJECT:

CHLORINATED ORGANIC CONTAMINANTS IN THE MILWAUKEE RIVER

PRINCIPAL INVESTIGATOR, ASSOCIATES AND DEPARTMENT/SPECIALTY:

PROF GF LEE — WATER CHEMISTRY LABORATORY
GD VEITH
EE BALTHAZAR — CENTRAL WISC. COL. & TRN. SCH.

RECIPIENT INSTITUTION:

UNIV. OF WISCONSIN
SCHOOL OF ENGINEERING
258 MECHANICAL ENGIN. BLDG.
MADISON, WISCONSIN

PERIOD FOR THIS INVP.: 7/70 TO 6/71
FY71 FUNDS UNKNOWN

SUMMARY OF PROJECT:

The occurences of chlorinated organic contaminants in the Milwaukee River system and western Lake Michigan has been investigated. Mass spectrometric analyses have verified the presence of mixtures of chlorinated biphenyls, and semi-quantitative GLC analyses based on commercial mixtures as standards have described the relative concentrations of the chlorinated biphenyls infish and water throughout the study area. However, the lack of suitable standards results in the inability to adequately correlate environmental data because of the many isomers which comprise the mixtures.

The proposed study is an investigation of the aqueous environmental chemistry of the chlorinated biphyenyls. The initial objective is the development of analytical conditions and standards which enable quantitative analyses of individual or groups of isomers to be made. Subsequently, the fate of the chemicals in the environment will be determined through evaluations of the relative significances of sorption on sediments and planktonic communities, and stabilities of the chlorinated biphenyls toward biological and chemical degradation.

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