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Chesapeake Bay Baseline Data Acquisition Appendix III: Toxics in the Chesapeake Bay

Chesapeake Research Consortium, Incorporated

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CHESAPEAKE BAY BASELINE DATA ACQUISITION

TOXICS IN THE CHESAPEAKE BAY

Preliminary Report

Contract No. 68-01-3994

between

U.S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

July 1978

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INTRODUCTION

This preliminary report on toxic substances is estimated to be 60 to 70% complete. Appendices I and II, "A Chesapeake Bay Directory" and "Submerged Aquatic Vegetation," respectively, have already been submitted in final form.

The main thrust of this report was to deal with accumulations of toxics in biota, water and sediment. Metals, biocides and PCB's were the toxics encountered most frequently in this study. Oil spill data files were included only when bioaccumulation was measured.

This report comprises four sections as follows:

Annex I. is a consolidation of toxic substances from five major summaries.

Annex II. contains researchers presently engaged in toxic studies in the Chesapeake Bay.

Annex III. is an indexed listing of toxic data files pertinent to the Chesapeake Bay and adjacent coastal states.

Annex IV. summarizes the monitoring efforts as derived from Annex III.

During this study, interviews have been conducted with 150 scientists from 30 organizations. From these interviews 50 new data files listed in Annex III were described. These file descriptions have been forwarded to the Environmental Data Service (EDS) for incorporation into the Environmental Data Base Directory (EDBD). In addition, EDBD has provided a complete listing of all Chesapeake Bay

data files. These files were carefully screened by the study team and all those pertinent to toxics were included in Annex III.

ANNEX I

Consolidated Toxic Substances List

Toxics in the Chesapeake Bay

The "Consolidated Toxic Substances List" includes substances from the following sources:

Priority Pollutant List (65 classes, 129 compounds based on consent decree of EPA and the National Resources Defense Council).

Section 311 List (PL92-500).

Maryland's Hazardous Substances List (Maryland law 08.05.05).

EDBD Parameter Thesaurus (EDS, National Oceanic and Atmospheric Administration).

STORET Parameter Listing (STOrage and RETrieval, EPA).

Virginia's hazardous substances list is presently under development. The expected promulgation date is early 1979.

The toxic substances are listed in alphabetical order. To the right of each substance is a checklist indicating from which list(s) the substance was taken. The last column of the matrix indicates whether this substance is described in the Annex III EDBD data files for the Chesapeake Bay. New files are not referenced in this column.

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
1,1-Dichloroethane		x		x		
1,1-Dichloroethylene		x		x		
1,1,1-Trichloroethane		x		x		
1,1,2-Trichloroethane		x		x		
1,1,2,2-Tetrachloroethane		x		x		
1,2-Dichlorobenzene		x		x		
1,2-Dichloroethane		x		x		
1,2-Dichloropropane		x		x		
1,2-Diphenylhydrazine		x		x		
1,2-trans-Dichloroethylene		x		x		
1,2,3,4,5,7,7-Heptachloro Norbornene				x		
1,2,3,4,7,7-Hexachloro Norbornadiene				x		
1,2,4-Trichlorobenzene		x		x		
1,2,5,6-Dibenzanthracene		x		x		
1,3-Dichlorobenzene		x		x		
1,3-Dichloropropene		x		x		
1,4-Dichlorobenzene		x		x		
2-Chloroethyl Vinyl Ether		x		x		
2-Chloronaphthalene		x		x		
2-Chlorophenol		x		x		
2-Nitrobiphenyl			x			
2-Nitrophenol		x		x		
2,3-Dinitrophenol			x			
2,3,6-Trichlorophenol			x			
2,3,7,8-Tetrachlorodibenzo Dioxin (TCD)		x		x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
2,4-D Acid	x		x	x	x	x
2,4-D Buteny Ester			x			
2,4-D Butyl Ester			x			
2,4-D Esters	x		x			
2,4-Dichlorophenol		x		x		
2,4-Dimethylphenol		x		x		
2,4-Dinitrophenol		x	x	x		
2,4-Dinitrotoluene		x		x		
2,4-D Isooctyl Ester			x			
2,4,-D Isopropyl Ester			x			
2,4,5-T Acid	x			x	x	x
2,4,5-T Esters	x			x		
2,4,5-Trichlorophenol			x			
2,4,5-Tri Iso Octyl Ester				x		
2,4,6-Trichlorophenol		x	x	x		
2,5-Dinitrophenol			x			
2,6-Dinitrophenol			x			
2,6-Dinitrotoluene		x		x		
3,3-Dichlorobenzidine		x		x		
3,4-Dinitrophenol			x			
3,4,5-Trichlorophenol			x			
3,5-Dinitrophenol			x			
4-Bromophenyl Phenyl Ether		x		x		
4-Chlorophenyl Phenyl Ether		x		x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
4-Nitrobiphenyl			x			
4-Nitrophenol		x		x		
4,6-Dinitro-Ortho-Cresol		x		x		
17-Alpha-Estradiol			x			
Abate				x		
Acenaphthene		x		x		
Acenaphthylene		x		x		
Acetaldehyde	x		x			
Acetic Acid	x		x	x		
Acetic Acid Fluno-Potassium Salt			x			
Acetic Acid,Fluoro-,Triethyl Lead Salt			x			
Acetic Anhydride	x		x			
Acetone Cyanohydrin	x		x			
Acetylaminofluorene			x			
Acetyl Bromide	x		x			
Acetyl Chloride	x		x			
Acrolein	x	x	x	x		
Acrylonitrile	x	x	x	x		
Adiponitrile	x		x			
Aldicarb				x		
Aldrin	x	x	x	x	x	x
Allethrin				x		
Allyl Alcohol	x		x			
Allyl Chloride	x		x			
Alpha-BHC		x		x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STRET	EDBD	CB
Alpha-Naphthylamine			x			
Aluminum Fluoride	x		x			
Aluminum Sulfate	x		x			
Ametryne					x	
Aminodiphenyl			x			
Ammonia	x		x	x	x	x
Ammonium Acetate	x		x			
Ammonium Benzoate	x		x			
Ammonium Bicarbonate	x		x			
Ammonium Bichromate	x		x			
Ammonium Bifluoride	x		x			
Ammonium Bisulfite	x		x			
Ammonium Bromide	x		x			
Ammonium Carbamate	x		x			
Ammonium Carbonate	x		x			
Ammonium Chloride	x		x			
Ammonium Chromate	x		x			
Ammonium Citrate	x					
Ammonium Citrate Dibasic			x			
Ammonium Fluoborate	x		x			
Ammonium Fluoride	x		x			
Ammonium Hydroxide	x		x			
Ammonium Hypophosphite	x		x			
Ammonium Iodide	x		x			
Ammonium Nitrate	x		x			
Ammonium Oxalate	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ammonium Pentaborate	x		x			
Ammonium Persulfate	x		x			
Ammonium Silicofluoride	x		x			
Ammonium Sulfamate	x		x			
Ammonium Sulfide	x		x			
Ammonium Sulfite	x		x			
Ammonium Tartrate	x		x			
Ammonium Thiocyanate	x		x			
Ammonium Thiosulfate	x		x			
Amyl Acetate	x		x			
Aniline	x		x			
Anthracene		x		x		
Antimony		x		x	x	
Antimony Pentachloride	x		x			
Antimony Pentafluoride	x		x			
Antimony Potassium Tartrate	x		x			
Antimony Tribromide	x		x			
Antimony Trichloride	x		x			
Antimony Trifluoride	x		x			
Antimony Trioxide	x		x			
Antimycins			x			
Arsenic		x		x	x	x
Arsenic Acid	x		x			
Arsenic Disulfide	x		x			
Arsenic Pentaroxide			x			
Arsenic Pentoxide	x					

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Arsenic Trichloride	x		x			
Arsenic Trioxide	x		x			
Arsenic Trisulfide	x		x			
Asbestos (Fibrous)		x	x	x	x	
Atrazine				x	x	
Auramine			x			
Barium Cyanide	x		x			
Benefin				x		
Benzacephenanthrylene		x				
Benzene	x	x	x	x		
Benzidine		x	x	x		
Benzo(a)anthracene		x		x		
Benzo flouranthene		x		x		
Benzoic Acid	x		x			
Benzonitrile	x		x			
Benzo(ghi)perylene		x		x		
Benzopyrene		x		x	x	
Benzoyl Chloride	x		x			
Benzyl Chloride	x		x			
Beryllium		x		x	x	x
Beryllium Chloride	x		x			
Beryllium Fluoride	x		x			
Beryllium Nitrate	x		x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Beta-BHC		x		x	x	x
Beta-Naphthylamine			x			
Beta-Propiolactone			x			
Bidrin				x		
Bis-(2-Chloroethoxy) Methane		x		x		
Bis-(2-Chloroethyl) Ether		x		x		
Bis-(2-Chloroisopropyl) Ether		x		x		
Bis-(2-Ethylhexyl) Phthalate		x		x		
Bis-(Chloromethyl) Ether		x	x	x		
Bromoform		x		x		
Butyl Acetate	x		x			
Butylamine	x		x			
Butyl Benzyl Phthalate		x		x		
Butyric Acid	x		x			
Cadmium		x		x	x	x
Cadmium Acetate	x		x			
Cadmium Bromide	x		x			
Cadmium Chloride	x		x			
Cadmium Fluborate			x			
Cadmium Fluoride			x			
Cadmium Fluosilicate			x			
Cadmium Lactate			x			
Cadmium Nitrate			x			
Cadmium Oxide			x			
Cadmium Phosphate			x			
Cadmium Sulfate			x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Cadmium Sulfate Hydrate			x			
Cadmium Sulfate Tetrahydrate			x			
Cadmium Sulfide			x			
Calcium Arsenate	x		x			
Calcium Arsenite	x		x			
Calcium Carbide	x		x			
Calcium Chromate	x		x			
Calcium Cyanide	x		x			
Calcium Dodecylbenzene-Sulfonate	x					
Calcium Hydroxide	x		x			
Calcium Hypochlorite	x		x			
Calcium Oxide	x		x			
Captan	x		x	x	x	
Carbaryl	x		x	x	x	
Carbofuran					x	
Carbon Disulfide	x		x			
Carbon Tetrachloride		x		x	x	
C.D.E.C.					x	
Cerium-144				x	x	x
Cesium-137				x	x	x
Chlordane	x	x	x	x	x	x
Chlorine	x		x	x	x	
Chlornaphazine (Bis(2-Chloroethyl) 2-Naphthylamine)			x			
Chlorobenside				x	x	
Chlorobenzene	x	x	x	x		
Chlorobenzilate				x	x	

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Chlorodibromomethane		x			x	
Chloroethane		x			x	
Chloroethylene Bisthiocyanate					x	
Chloroform	x	x	x	x	x	
Chlorosulfonic Acid	x		x			
Chlorothion					x	
Chlor. Phenoxy Acid					x	
Chromates			x			
Chromic Acetate	x		x			
Chromic Acid	x		x			
Chromic Acid, Calcium Salt			x			
Chromic Acid, Lead Salt			x			
Chromic Acid, Zinc Salt			x			
Chromic Sulfate	x		x			
Chromium		x			x	x
Chromium Carbonyl			x			
Chromium Chloride			x			
Chromous Chloride	x		x			
Chromyl Chloride	x		x			
Chrysene		x			x	
Cinerin					x	
Cobaltous Bromide	x		x			
Cobaltous Fluoride	x		x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Cobaltous Formate	x		x			
Cobaltous Sulfamate	x		x			
Copper		x		x	x	x
Coumaphos	x		x	x		
Cresol	x		x			
Cupric Acetate	x		x			
Cupric Acetoarsenite	x					
Cupric Chloride	x		x			
Cupric Formate	x		x			
Cupric Glycinate	x		x			
Cupric Lactate	x		x			
Cupric Nitrate	x					
Cupric Oxalate	x		x			
Cupric Subacetate	x		x			
Cupric Sulfate	x		x			
Cupric Sulfate Ammoniated	x		x			
Cupric Tartrate	x		x			
Cuprous Bromide	x		x			
Cyanide		x	x	x	x	x
Cyanogen Chloride	x		x			
Cyclohexane	x		x			
Dacthal				x	x	
Dalapon	x		x			
Dasanit				x		
DDA					x	
DDD	x	x	x	x	x	x
DDG		x		x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
DDT	x	x	x	x	x	x
Def				x		
Delnav				x		
Delta-BHC		x		x	x	x
Demeton				x		
Diazinon	x		x	x	x	
Dibutyl Phthalates		x	x	x		
Dicamba	x		x		x	
Dicapthon				x		
Dichlobenil	x		x			
Dichlone	x		x	x	x	
Dichlorobenzidine			x			
Dichlorobromomethane		x		x		
Dichlorodifluoromethane		x		x		
Dichlorvos	x		x			
Dicofol	x		x	x	x	
Dieldrin	x	x	x	x	x	x
Diethylamine	x		x			
Diethyl Phthalate		x	x	x		
Difolatan				x		
Diisobutyl Phthalate			x	x		
Dilan				x	x	
Dimethoate				x	x	
Dimethylamine	x		x			
Dimethylaminoazobenzene			x			
Dimethyl Formamide			x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Dimethyl Phthalate		x	x	x		
Di-N-Butyl Phthalate		x	x	x		
Dinitrobenzene	x		x			
Dinitrophenol	x		x			
Diocetyl Phthalate		x	x	x		
Dioxins			x			
Diquat	x		x		x	
Disulfoton	x		x	x		
Disyston				x		
Diuron	x		x	x	x	
DNOC				x		
Dodecylbenzenesulfonic Acid	x		x			
Dursban	x		x	x		
Dyfonate				x		
Dylox	x		x	x	x	
Dyrene					x	
Endosulfan	x	x	x	x	x	
Endosulfan Sulfate		x		x		
Endrin	x	x	x	x	x	x
Endrin Aldehyde		x		x		
Epsilon B.H.C					x	x
Estradiol, 3-Benzoate			x			
Estradiol, Dipropionate			x			
Estrogenic Compounds			x			
Ethion	x		x	x	x	

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ethylbenzene	x	x	x	x		
Ethylenediamine	x		x			
Ethylenediaminetetra Acetic Acid (EDTA)	x		x			
Ethylene Glycol Dinitrate					x	
Ethyleneimine			x			
Ethylparathion					x	
Ethyl Phenylphosphonothiate					x	
Fenthion					x	
Ferric Ammonium Citrate	x		x			
Ferric Ammonium Oxalate	x		x			
Ferric Chloride	x		x			
Ferric Fluoride	x		x			
Ferric Nitrate	x		x			
Ferric Sulfate	x		x			
Ferrous Ammonium Sulfate	x		x			
Ferrous Chloride	x		x			
Ferrous Sulfate	x		x			
Fluoranthene		x			x	
Fluorene		x			x	
Fluoroacetic Acid and its Salts			x			
Fluoroacetic Acid, Sodium Salt			x			
Folpet						x
Formaldehyde	x		x	x		
Formic Acid	x		x			
Fumaric Acid	x		x			
Furfural	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Furodan					x	
Gamma-BHC		x		x	x	x
Guthion	x		x	x	x	
Heptachlor	x	x	x	x	x	x
Heptachlor Epoxide		x	x	x	x	
Hexachlorobenzene		x		x	x	
Hexachlorobutadiene		x		x		
Hexachlorocyclopentadiene		x		x		
Hexachloroethane		x		x		
Hydrochloric Acid	x		x			
Hydrofluoric Acid	x		x			
Hydrogen Cyanide	x		x			
Hydroxylamine	x		x			
Indeno-(1,2,3-cd)-Pyrene		x		x		
Isodrin				x		
Isophorone		x		x		
Isoprene	x		x			
Isopropanolamine Dodecylbenzene- sulfonate	x					
Kelthane	x		x	x	x	
Kepone			x	x	x	
Lead		x		x	x	x
Lead-210				x	x	x
Lead Acetate	x		x			
Lead Arsenate	x		x			
Lead Chloride	x		x			
Lead Fluoborate	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Lead Fluoride	x		x			
Lead Iodide	x		x			
Lead Nitrate	x		x			
Lead Stearate	x		x			
lead Sulfate	x		x			
Lead Sulfide	x		x			
Lead Tetraacetate	x		x			
Lead Thiocyanate	x		x			
Lead Thiosulfate	x		x			
Lead Tungstate	x		x			
Lindane	x	x	x	x	x	x
Lithium Bichromate	x					
Lithium Chromate	x		x			
Malathion	x		x	x	x	
Maleic Acid	x		x			
Maleic Anhydride	x		x			
MCD-2,4D,4 Chlor-2 Methylphenoxy Acetic				x		
Mercuric Acetate	x		x			
Mercuric Cyanide	x		x			
Mercuric Nitrate	x		x			
Mercuric Sulfate	x		x			
Mercuric Thiocyanate	x		x			
Mercurous Nitrate	x		x			
Mercury		x	x	x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDED	CB
Mercury Benzoate			x			
Mercury Bromide			x			
Mercury Chloride			x			
Mercury, Chloroethyl			x			
Mercury, Chloromethyl			x			
Mercury Nitrate			x			
Mercury Oxide			x			
Mercury Sulfate			x			
Merphos				x		
Metasystox				x		
Methomyl				x		
Methoxychlor	x		x	x	x	
Methyl Bromide		x		x		
Methyl Chloride		x		x		
Methyl Chloromethyl Ether			x			
Methylene-Bis-Chloraniline			x			
Methylene Chloride		x		x		
Methyl Mercaptan	x		x			
Methyl Mercury					x	
Methyl Methacrylate	x		x			
Methyl Parathion	x		x	x	x	
Methyl Trithion				x	x	
Mevinphos	x		x	x	x	
Mirex			x	x	x	
Monoethylamine	x		x			
Monomethylamine	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STRET	EDBD	CB
Mustard Gas (Bi-Chloroethyl Sulphide)			x			
Naled	x		x			
Naphthalene	x	x	x	x		
Naphthenic Acid	x		x			
N-Butyl Benzyl Phthalate				x		
Neburon					x	
Nickel		x		x	x	x
Nickel Ammonium Sulfate	x		x			
Nickel Carbonyl			x			
Nickel Chloride	x		x			
Nickel Formate	x		x			
Nickel Hydroxide	x		x			
Nickel Nitrate	x		x			
Nickel Sulfate	x		x			
Nitric Acid	x		x			
Nitrobenzene	x	x	x	x		
Nitrobiphenyl			x			
Nitrogen Dioxide	x		x			
Nitroglycerin				x		
Nitroglycerin + Ethylene Glycol Dinitrate				x		
Nitrophenol	x		x			
N-Nitrosodimethylamine		x	x	x		
N-Nitrosodi-N-Propylamine		x		x		
N-Nitrosodiphenylamine		x		x		
Org. Phos. Compnone				x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ovex				x		
Para-Chloro-Meta-Cresol		x		x		
Paraformaldehyde	x		x			
Paraoxon-O, O Diethyl O, P Netrophenyl Phos				x		
Paraquat					x	
Parathion	x		x	x	x	
PCN				x		
Pentachlorophenol	x	x	x	x		
Perthane				x	x	
Phenanthrene		x		x		
Phenol	x	x	x	x	x	x
Phorate				x	x	
Phorate Sulfone				x		
Phosdrin	x		x	x	x	
Phosgene	x		x			
Phosphoric Acid	x		x			
Phosphorus Oxychloride	x		x			
Phosphorus Pentasulfide	x		x			
Phosphorus Trichloride	x		x			
Phthalic Acid Esters			x			
Picloram			x	x		
Polybrominated Biphenyls (PBB)			x	x		

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Polychlorinated Biphenyls (PCB)	x	x	x	x	x	x
PCB 300			x			
PCB 400			x			
PCB 500			x			
PCB 1010				x		
PCB 1016		x		x		
PCB 1221		x		x		
PCB 1232		x		x		
PCB 1242		x	x	x		
PCB 1248		x		x		
PCB 1254		x	x	x		
PCB 1260		x	x	x		
Potassium Arsenate	x		x			
Potassium Arsenite	x		x			
Potassium Bichromate	x		x			
Potassium Chromate	x		x			
Potassium Cyanide	x		x			
Potassium Hydroxide	x		x			
Potassium Permanganate	x		x			
Prometone				x		
Prometryne				x		
Propanil				x		
Propazine				x		
Propham				x		
Propionic Acid	x		x			
Propionic Anhydride	x		x			
Propyl Alcohol	x		x			
Pyrene		x		x		
Pyrethrins	x		x	x		
Quinoline	x		x			
Radium-226				x	x	x
Radium-228				x	x	x

TOXIC
SUBSTANCE

LIST(S) ON WHICH
SUBSTANCE APPEARS

	311	6521	Md.	STORET	EDBD	CB
Resorcinol	x		x			
Ronnel				x	x	
Rotenone			x			
Ruthenium-106				x	x	x
Selenium		x			x	x
Selenium Oxide	x		x			
Sevin	x		x	x	x	
Silver		x		x	x	x
Silvex				x	x	x
Simazine				x	x	
Simetryne				x		
Sodium Arsenate	x		x			
Sodium Arsenite	x		x			
Sodium Bichromate	x		x			
Sodium Bifluoride	x		x			
Sodium Bisulfite	x		x			
Sodium Chromate	x		x			
Sodium Cyanide	x		x			
Sodium Dodecylbenzene-Sulfonate	x					
Sodium Fluoride	x		x			
Sodium Hydrosulfide	x		x			
Sodium Hydroxide	x		x			
Sodium Hypochlorite	x		x			
Sodium Methylate	x		x			
Sodium Nitrite	x		x			
Sodium Pentachlorophenate				x		

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Sodium Phosphate Dibasic	x		x			
Sodium Phosphate Monobasic	x					
Sodium Phosphate Tribasic	x					
Sodium Selenite	x		x			
Sodium Sulfide	x		x			
S, S, S-Tributyl Phosphoro- trithioate					x	
Stannous Fluoride	x		x			
Strobane, 2, 3, 6-Trichloro- pheylacetic Acid					x	
Strontium Chromate	x		x			
Strychnine	x		x			
Styrene	x		x			
Sulfuric Acid	x		x			
Sulfur Monochloride	x		x			
Systox					x	
TDE	x	x	x	x	x	x
Tedion					x	x
Telodrin					x	x
TEPP					x	
Terrachlor, Pentachloronitro- benzene					x	
Tetrachloroethylène		x			x	
Tetrachlorophenol					x	
Tetradifon					x	x
Tetraethyl Lead	x		x			
Tetraethyl Pyrophosphate	x		x			
Thallium		x			x	x

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Thimet				x	x	
Thiodan	x	x	x	x	x	
Thorium-228	x	x	x	x	x	x
Toluene	x	x	x	x		
Toxaphene	x	x	x	x	x	x
Treflan				x		
Trichlorfon	x		x	x	x	
Trichloroethylene		x	x	x		
Trichlorofluoromethane		x		x		
Trichlorophenol	x		x			
Triethanolamine Dodecyl- Benzenesulfonate	x					
Triethylamine	x		x			
Trifluralin					x	
Trimethylamine	x		x			
Trithion				x	x	
Uranium Peroxide	x		x			
Uranyl Acetate	x		x			
Uranyl Nitrate	x		x			
Uranyl Sulfate	x		x			
Vanadium Pentoxide	x		x			
Vanadyl Sulfate	x					
Vegadex					x	
Vinyl Acetate	x		x			
Vinyl Chloride		x		x		
Vinyl Chloride Monomer			x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Xylene	x		x	x		
Xylenol	x					
Zectran	x		x			
Zinc		x		x	x	x
Zinc Acetate	x		x			
Zinc Ammonium Chloride	x		x			
Zinc Bichromate	x		x			
Zinc Borate	x		x			
Zinc Bromide	x		x			
Zinc Carbonate	x		x			
Zinc Chloride	x		x			
Zinc Cyanide	x		x			
Zinc Fluoride	x		x			
Zinc Formate	x					
Zinc Hydrosulfite	x		x			
Zinc Nitrate	x		x			
Zinc Phenosulfonate	x		x			
Zinc Phosphide	x		x			
Zinc Potassium Chromate	x		x			
Zinc Silicofluoride	x		x			
Zinc Sulfate	x		x			
Zinc Sulfate Monohydrate	x		x			
Zirconium Acetate	x		x			
Zirconium Nitrate	x		x			

TOXIC
SUBSTANCE

LIST(S) ON WHICH
SUBSTANCE APPEARS

	311	6521	Md.	STORET	EEDD	CB
Zirconium Oxychloride	x		x			
Zirconium Potassium Fluoride	x		x			
Zirconium Sulfate	x		x			
Zirconium Tetrachloride	x		x			
Zytron					x	

ANNEX II

Directory of Researchers

Toxics in the Chesapeake Bay

This "Directory of Researchers" contains a listing of scientists who are presently working in the field of toxics, their affiliations and their specific research activities. The information was compiled from "A Chesapeake Bay Directory" by T. Lochen, M. Lynch, A. McErlean and K. Rutledge which was published as a partial fulfillment of this contract.

For researchers and research activities in other national and international areas the reader is referred to the "International Directory of Marine Scientists," issued by the Food and Agriculture Organization of the United Nations in 1977. Copies of this directory are available at the following locations:

EPA Region III
Chesapeake Bay Program Office
Curtis Building
6th and Walnut Streets
Philadelphia, PA 19106

Chesapeake Research Consortium
1419 Forest Drive
Suite 207
Annapolis, MD 21403

University of Maryland, Center for Environmental and
Estuarine Studies
ATTN: Karen Rutledge
P.O. Box 775
Horn Point Rd.
Cambridge, MD. 21613

Virginia Institute of Marine Science
ATTN: Thomas Lochen
Gloucester Pt., VA 23062

ANNEX II

Directory of Researchers
Toxics in the Chesapeake Bay

Alden, R. W. Old Dominion University	Heavy metals - Chesapeake Bay.
Austin, J. Annapolis Field Office, U. S. Environmental Protection Agency	Herbicides - Chesapeake Bay.
Barnes, L. National Bureau of Standards	Toxic metals and organics - Chesapeake Bay.
Bass, M. L. Mary Washington College	Chlorine effects on freshwater fauna.
Bell, C. E., Jr. Old Dominion University	Kepone and heavy metals in jellyfish.
Bellama, J. M. University of Maryland	Pathways of metals in water.
Bender, M. E. Virginia Institute of Marine Science	Pesticides, kepone, heavy metals - Chesapeake Bay.
Bieri, R. H. Virginia Institute of Marine Science	Oil pollution.
Birkner, F. B. University of Maryland	Heavy metals in oysters.
Boon, D. Marine Products Laboratory, University of Maryland	Heavy metal concentra- tions in shellfish - Chesapeake Bay
Brinckman, F. National Bureau of Standards	Toxic metals and organics - Chesapeake Bay.
Bubeck, R. Annapolis Field Office, U. S. Environmental Protection Agency	Heavy metal analysis - Chesapeake Bay.

Buikema, A. L., Jr.
Virginia Polytechnic Institute
and State University

Petroleum toxicity in
invertebrates.

Burton, D. T.
Benedict Estuarine Research
Laboratory, Academy of
Natural Sciences of Philadelphia

Chlorine and bromine
effects on aquatic fauna.

Cairns, J., Jr.
Virginia Polytechnic Institute
and State University

Toxicity of metals to
freshwater biota.

Church, T.
University of Delaware

Inorganic toxic
substances.

Correll, D. L.
Chesapeake Bay Center for
Environmental Studies,
Smithsonian Institution

Herbicides and non-point
source pollution -
Chesapeake Bay.

Cunningham, J.
Horn Point Environmental
Laboratory, University
of Maryland

Effects of herbicide
manipulation on bay
grass microcosms -
Chesapeake Bay.

Eaton, A.
Chesapeake Bay Institute,
The Johns Hopkins University

Biogeochemistry of trace
metals - Chesapeake Bay.

Grant, V.
Chesapeake Bay Institute,
The Johns Hopkins University

Biogeochemistry of trace
metals - Chesapeake Bay.

Helz, G.
University of Maryland

Geochemistry and
analytical chemistry of
trace organics and inor-
ganics.

Hendricks, A. C.
Virginia Polytechnic Institute
and State University

Toxicity of metals to
freshwater biota.

Hershner, C., Jr.
Virginia Institute of Marine
Science

Oil in salt marshes -
Chesapeake Bay.

Hoffman, J. F. United States Naval Academy	Metals in sediments - Chesapeake Bay.
Huggett, R. J. Virginia Institute of Marine Science	Pesticides, kepone, oil pollution and heavy metals - Chesapeake Bay.
Johnson, P. Annapolis Field Office, U. S. Environmental Protection Agency	Heavy metals in sediments - Chesapeake Bay.
Munson, T. Annapolis Field Office, U. S. Environmental Protection Agency	Pesticide analysis of water - Chesapeake Bay.
Owen, B. Maryland Geological Survey	Trace metals and inor- ganic toxic substances - Chesapeake Bay.
Phelps, H. Federal City College	Heavy metals, chelation, and adsorption of cadmium by shellfish - Chesapeake Bay.
Ponnamperuma, C. University of Maryland	Diagenesis of organic compounds in sediments.
Roberts, M. H. Virginia Institute of Marine Science	Chlorine and bromine effects on aquatic fauna- Chesapeake Bay.
Roosenburg, W. Chesapeake Biological Laboratory, University of Maryland	Biology and toxicology of shellfish - Chesapeake Bay.
Shimoyama, A. University of Maryland	Organic compounds in sediment and water.
Smith, C. L. Virginia Institute of Marine Science	Chemistry of oil pollution.
Sommer, S. E. University of Maryland	Geochemistry of sediments, environmental effects of metal loading

Su, C. W.
Virginia Institute of Marine
Science

Hydrocarbon chemistry.

Wester, H.
National Ecological Services
Laboratory, National Park
Service

Chlorine and submerged
aquatic vegetation -
Chesapeake Bay.

Wong, G. T. F.
Old Dominion University

Heavy metals, radio-
nuclides.

Wu, T. L.
Chesapeake Bay Center for
Environmental Studies,
Smithsonian Institution

Herbicides and non-point
source pollution -
Chesapeake Bay.

Young, R.
Virginia Polytechnic Institute
and State University

Kepone in benthic fauna.

ANNEX III

Data Files

Toxics in the Chesapeake Bay

ANNEX III

Data Files

Part A

Data File Index-Listed by Key Word

Toxics in the Chesapeake Bay

This index contains an alphabetical listing by key word of the data files in Part B. After each key word is a number or series of numbers which reference the page numbers of the particular file(s) within this report. Most of the files are referenced by more than one key word. Underlined numbers indicate files generated after January 1, 1973.

The new data files identified during this study are not included in the key word listing. These will be available when EDS completes the coding.

Seven radioactive substances are referenced in this list. After a careful review the remaining sixty-one radioactive substances in the EDBD Parameter Thesaurus were found to be of no use to this study.

ANNEX III

Part A
Data File Index-Listed by Key Word

Toxics in the Chesapeake Bay

2,4-D (sediment) - herbicide
none

2,4-D (suspended)
none

2,4-D (water)
140

2,4-D in bio material (bottom)
none

2,4-D in bio material (water)
none

2,4,5-T (sediment) - herbicide
none

2,4,5-T (suspended)
none

2,4,5-T (water)
140

2,4,5-T in bio material (sediment)
none

2,4,5-T in bio material (suspended)
none

2,4,5-T in bio material (water)
none

ABS
use surfactants

acaraben
use chlorobenzilate

aldrin (sediment) - insecticide
77

aldrin (water)
35, 140

aldrin in bio material (bottom)
none

aldrin in bio material (water)
35, 77

aliphatic hydrocarbons (dissolved)
none

aliphatic hydrocarbons (sediment)
145

aliphatic hydrocarbons (water)
54

aliphatic hydrocarbons in bio material (water)
none

alpha B.H.C.
use lindane

ametryne (water) - herbicide
none

ammonia (dissolved)
none

ammonia (interstitial)
none

ammonia (sediment)
none

ammonia (water)
35

amphibol (sediment) - asbestos
none

amphibol (water)
none

antimony (dissolved)
none

antimony (sediment)
none

antimony (water)
none

antimony in bio material (bottom)
none

antimony in bio material (water)
none

aromatic hydrocarbons (dissolved)
none

aromatic hydrocarbons (suspended)
none

aromatic hydrocarbons (water)
none

aromatic hydrocarbons in bio material (water)
39

arsenic (dissolved)
140

arsenic (sediment)
none

arsenic (suspended)
none

arsenic (water)
71, 147

arsenic in bio material (bottom)
none

arsenic in bio material (water)
127

asbestos
use amphibol. chrysotile.

atrazine (water) - herbicide
none

atrazine in bio material (bottom)
none

atrazine in bio material (water)
none

benzopyrene (water)
none

beryllium (dissolved)
none

beryllium (sediment)
none

beryllium (suspended)
none

beryllium (water)
147

beryllium in bio material (bottom)
none

beryllium in bio material (water)
none

beta B.H.C.
use lindane

B.H.C. (sediment) - insecticide
none

B.H.C. (water)
none

B.H.C. in bio material (water)
none

cadmium (dissolved)
140

cadmium (interstitial)
none

cadmium (sediment)
60, 65, 67, 81, 86, 116, 121, 123, 162

cadmium (suspended)
none

cadmium (water)
35, 62, 71, 103, 116, 147, 153

cadmium in bio material (bottom)
107, 162

cadmium in bio material (sediment)
none

cadmium in bio material (water)
29, 35, 43, 44, 46, 47, 69, 93, 110, 116, 127

captan (water) - fungicide
none

caracide
use chlorobenside

carbaryl (sediment) - pesticide
none

carbaryl (water)
none

carbofuran (water) - insecticide
none

carbon tetrachloride (water)
none

C.D.E.C. (water) - herbicide
none

cerium -144 (sediment)
49, 53

cesium -137 (sediment)
49, 53

cesium -137 (water)
128, 135

chlordane (sediment) - insecticide
77

chlordane (water)
35, 140

chlordane in bio material (bottom)
none

chlordane in bio material (water)
35, 39, 75, 77

chlorinated hydrocarbons (sediment) - pesticides
none

chlorinated hydrocarbons (water)
none

chlorinated hydrocarbons in bio material (water)
125

chlorine (sediment)
none

chlorine (water)
none

chlorine in bio material (bottom)
none

chlorine in bio material (water)
none

chlorobenside (water) - pesticide
none

chlorobenzilate (water) - insecticide
none

chloroform (water)
none

chromium (dissolved)
140

chromium (interstitial)
none

chromium (sediment)
60, 65, 67, 81, 101, 116, 121, 123, 153, 162

chromium (suspended)
none

chromium (water)
35, 62, 71, 116, 147, 153

chromium in bio material (bottom)
98, 162

chromium in bio material (sediment)
none

chromium in bio material (water)
35, 98, 116

chrysotile (water) - asbestos
none

copper (dissolved)
140

copper (interstitial)
none

copper (sediment)
50, 56, 58, 60, 65, 67, 81, 101, 116,
121, 123, 150, 162

copper (suspended)
none

copper (water)
35, 62, 71, 103, 116, 147, 150

copper in bio material (bottom)
98, 162

copper in bio material (sediment)
none

copper in bio material (water)
29, 35, 43, 44, 46, 47, 88, 93, 98, 116, 119

cyanide (sediment)
none

cyanide (water)
35, 147

cyanide in bio material (water)
35

dacthal (water) - herbicide
none

DCPA
use dacthal

DDA (sediment) - insecticide
none

DDA (water)
none

DDA in bio material (water)
none

DDD (sediment) - insecticide
77

DDD (water)
35, 140

DDD in bio material (bottom)
none

DDD in bio material (water)
29, 35, 39, 41, 75, 77, 91, 95,
110, 112, 114, 133

DDE (sediment) - insecticide
77

DDE (water)
35, 140

DDE in bio material (bottom)
none

DDE in bio material (water)
29, 35, 39, 41, 75, 77, 91, 95,
110, 112, 114, 133

DDT (dissolved) - insecticide
none

DDT (sediment)
77

DDT (water)
35, 140

DDT in bio material (bottom)
none

DDT in bio material (water)
29, 35, 39, 41, 73, 75, 77, 91, 95,
110, 112, 114, 133

delta B.H.C.
use lindane

detergents (water)
none

diazinon (sediment) - pesticide
none

diazinon (water)
none

diazinon in bio material (bottom)
none

diazinon in bio material (water)
none

dicamba (water) - herbicide
none

dicamba in bio material (water)
none

dichlone (water) - herbicide
none

dicofol (sediment) - insecticide
none

dicofol (water)
none

dieldrin (dissolved) - insecticide
none

dieldrin (sediment)
77

dieldrin (water)
35, 140

dieldrin in bio material (bottom)
none

dieldrin in bio material (water)
35, 39, 77, 91, 95, 110, 112, 114, 133

dilan (water) - insecticide
none

dilan in bio material (bottom)
none

dimethoate (water) - insecticide
none

dinitrophenol (water) - herbicide
none

dinitrophenol in bio material (water)
none

diquat (water) - herbicide
none

diquat in bio material (water)
none

diuron (water) - herbicide
none

dylox
use trichlorfon

dyrene (water) - fungicide
none

endosulfan
use thiodan

endrin (sediment)
77

endrin (water)
140

endrin in bio material (bottom)
none

endrin in bio material (water)
77

epsilon B.H.C.
use lindane

ethion (sediment) - pesticide
none

ethion (water)
none

folpet (water) - fungicide
none

fuel oil (water)
none

fungicide
use captan, dyrene, folpet

furadan
use carbofuran

gamma B.H.C.
use lindane

gasoline (water)
none

grease
 use oils

guthion (water) - pesticide
 none

guthion in bio material (water)
 none

heavy metals
 use cadmium, copper, lead, mercury, nickel, zinc

heptachlor (sediment) - insecticide
 none

heptachlor (water)
 35, 140

heptachlor epoxide (sediment) - insecticide
 none

heptachlor epoxide (water)
 none

heptachlor epoxide in bio material (bottom)
 none

heptachlor epoxide in bio material (water)
 none

heptachlor in bio material (bottom)
 none

heptachlor in bio material (water)
 35

herbicide
 use 2,4-D, 2,4,5-T, ametryne, atrazine, CDEC, dacthal, dicamba,
 dichlone, dinitrophenol, diquat, diuron, hexachlorobenzene,
 neburon, paraquat, silvex, simazine, trifluralin

hexachlorobenzene (water) - herbicide
 none

hexachlorobenzene in bio material (water)
 none

hydrocarbons (dissolved)
none

hydrocarbons (sediment)
none

hydrocarbons (suspended)
none

hydrocarbons (water)
none

hydrocarbons in bio material (bottom)
none

hydrocarbons in bio material (water)
none

insecticide

use aldrin, BHC, carbofuran, chlordane, chlorobenzilate, DDA, DDD, DDE, DDT, dicofol, dieldrin, dilan, dimethoate, heptachlor, heptachlor epoxide, kepone, lindane, methoxychlor, perthane, phosdrin, ronnel, tedion, thimet, thiodan, thoxaphene, trichlorfon

ionium
use thorium -230

kelthane
use dicofol

kepone (water) - insecticide
none

kerosene (water)
none

lead (dissolved)
140

lead (interstitial)
none

lead (sediment)
50, 56, 58, 60, 65, 67, 81, 101, 116, 121,
123, 150, 153, 162

lead (suspended)
none

lead (water)
62, 71, 103, 116, 147, 150, 153

lead in bio material (bottom)
98, 162

lead in bio material (water)
29, 33, 69, 98, 110, 116, 127

lead -210 (water)
128

lindane (sediment) - insecticide
77

lindane (water)
140

lindane in bio material (bottom)
none

Lindane in bio material (water)
77

lubricating oil (water)
none

malathion (sediment) - pesticide
none

malathion (water)
none

malathion in bio material (bottom)
none

malathion in bio material (water)
none

MBAS
use surfactants

mercury (dissolved)
128, 140

mercury (interstitial)
none

mercury (sediment)
50, 56, 58, 65, 67, 116, 121, 123, 143, 150, 153

mercury (suspended)
128

mercury (water)
35, 71, 116, 128, 143, 147, 150, 153

mercury in bio material (bottom)
98

mercury in bio material (water)
29, 35, 69, 93, 98, 106, 110, 116, 119, 127, 131

methoxychlor (sediment) - insecticide
none

methoxychlor (water)
none

methoxychlor in bio material (water)
none

methoxy DDT
use methoxychlor

methyl mercury (water)
none

methyl mercury in bio material (water)
none

methylparathion (sediment) - pesticide
none

methylparathion (water)
none

methyltrithion (sediment) - pesticide
none

methyltrithion (water)
none

mevinphos
 use phosdrin

mirex (sediment) - pesticide
 none

mirex (water)
 none

mirex in bio material (water)
 none

mortality of amphibians (water)
 none

mortality of benthic animals (bottom)
 108, 160

mortality of benthic plants (bottom)
 none

mortality of demersal fish (water)
 none

mortality of mammals (water)
 none

mortality of pelagic animals (water)
 none

mortality of pelagic fish (water)
 160

mortality of phytoplankton (water)
 none

mortality of reptiles (water)
 none

mortality of zooplankton (water)
 153

neburon (water) - herbicide
 none

nickel (dissolved)
 140

nickel (interstitial)
none

nickel (sediment)
60, 65, 67, 116, 121, 123, 153, 162

nickel (suspended)
none

nickel (water)
35, 62, 103, 116, 147, 153

nickel in bio material (bottom)
162

nickel in bio material (sediment)
none

nickel in bio material (water)
29, 116

oil degradation (sediment)
none

oil degradaton (water)
none

oil slick coverage (water)
none

oil slick occurrence (sediment)
none

oil slick occurrence (water)
none

oils (sediment)
150, 153

oils (water)
153

oils in bio material (bottom)
none

oils in bio material (water)
none

ortho-para DDD
use DDD

ortho-para DDE
use DDE

ortho-para DDT
use DDT

para-para DDD
use DDD

para-para DDE
use DDE

para-para DDT
use DDT

paraquat (water) - herbicide
none

parathion (sediment)
none

parathion (water)
none

parathion in bio material (bottom)
none

parathion in bio material (water)
none

PCB
use polychlorinated biphenyls

perthane (water) - insecticide
none

pesticide
use carbaryl, chlorinated hydrocarbons, chlorobenside, diazinon,
ethion, guthion, melathion, methylparathion, methyltrichion,
mirex, trithion

phenols (dissolved)
none

phenols (sediment)
none

phenols (water)
35, 147

phenols in bio material (water)
35

phorate
use thimet

phosdrin (water) - insecticide
none

polychlorinated biphenyls (sediment)
77

polychlorinated biphenyls (water)
35, 52

polychlorinated biphenyls in bio material (bottom)
none

polychlorinated biphenyls in bio material (water)
29, 39, 75, 77, 95, 110, 112, 114

radium -226 (water)
128, 135

radium -228 (water)
128

ronnel (water) - insecticide
none

ruthenium -106 (sediment)
49, 53

selenium (dissolved)
none

selenium (sediment)
116

selenium (water)
116

selenium in bio material (bottom)
none

selenium in bio material (water)
116

sevin
use carbaryl

silver (dissolved)
none

silver (interstitial)
none

silver (sediment)
162

silver (suspended)
none

silver (water)
none

silver in bio material (bottom)
162

silver in bio material (water)
none

silvex (sediment) - herbicide
none

silvex (water)
140

simazine (water) - herbicide
none

soap
use detergents

surfactants (water)
140, 147

tar balls (water)
none

TDE
 use DDD

tedion (water) - insecticide
 none

telodrin (sediment)
 none

telodrin (water)
 none

tetradifon
 use tedion

thallium (sediment)
 none

thallium (water)
 none

thallium in bio material (water)
 none

thimet (water) - insecticide
 none

thiodan (sediment) - insecticide
 none

thiodan (water)
 none

thorium -228 (water)
 128

total 2,4-D
 use 2,4-D

total 2,4,5-T
 use 2,4,5-T

toxaphene (sediment) - insecticide
 77

toxaphene (water)
 140

toxaphene in bio material (bottom)
none

toxaphene in bio material (water)
77

toxins in bio material (bottom)
none

toxins in bio material (water)
none

trichlorfon (water) - insecticide
none

trifluralin in bio material (bottom) - herbicide
none

trifluralin in bio material (water)
none

trithion (sediment) - pesticide
none

trithion (water)
none

vegadex
use CDEC

zinc (dissolved)
140

zinc in bio material (sediment)
none

zinc (sediment)
50, 56, 58, 60, 65, 67, 81, 86, 101, 116, 121, 123, 150, 153, 162

zinc in bio material (water)
29, 35, 43, 44, 46, 47, 69, 88, 93, 98, 116

zinc (water)
35, 62, 71, 103, 116, 147, 150, 153

zinc in bio material (bottom)
98, 162

ANNEX III

Data Files

Part B

Data Files

Toxics in the Chesapeake Bay

The data files included in Part B are arranged by EDBD accession number. The new files identified during this study can be found at the end of this section since they will be the most recent received by EDS. These new files arranged by date of initiation, earliest first. More new files may be added later in the order that they are identified. A brief description of each new file indicates the title, the period and general location of sampling, an abstract, the person to contact for the actual data and the date that the complete file was submitted to EDS for processing. The remainder of this information will be available from EDS as the files are entered into the system.

Areas adjacent to the Chesapeake Bay such as North Carolina, Delaware, New Jersey and Pennsylvania have been included when encountered.

The page numbers assigned to these data files are unique to this report. These files are assigned an EDBD accession number which should be used in inquiries to EDBD or in specific citations of files.

INDEX SYSTEM. ITS PURPOSE IS TO GUIDE USERS WITH REQUIREMENTS FOR HISTORICAL ENVIRONMENTAL DATA TO HOLDERS OF THESE DATA.

THIS OUTPUT WAS SELECTED FROM THE ENTIRE FILE BASED ON CERTAIN CRITERIA SPECIFIED BY THE USER. THESE CRITERIA ARE REPEATED BELOW:

EDBD

THE OUTPUT IS IN TWO PARTS. FIRST IS A LISTING OF ALL THE EDBD'S SELECTED, PRINTED IN ID NUMBER ORDER. AT THE BACK OF EACH OUTPUT MAY BE A CROSS-INDEX, LISTING SUCH THINGS AS WHICH FILE DESCRIPTIONS DESCRIBE DATA COLLECTED ON EACH PLATFORM TYPE, OR WHICH FILE DESCRIPTIONS HAVE DATA IN EACH GRID LOCATOR. THIS SECTION WILL VARY DEPENDING ON THE REQUIREMENTS OF THE USER. THE ID NUMBER IS IN THE UPPER LEFT CORNER OF EACH FILE DESCRIPTION. THE FOLLOWING IS AN EXPLANATION OF FIELDS ON EACH PAGE.

FILE NAME -- TOP CENTER OF PAGE. IDENTIFIED BY DATA HOLDER. ALSO, TIME RANGE OF DATA COLLECTION.

PROJECTS -- LIST OF PROJECTS UNDER WHICH DATA CONTAINED IN FILES MAY HAVE BEEN COLLECTED.

GENERAL GEOGRAPHIC AREA -- BEGINS WITH CONTINENT OR OCEAN IN WHICH DATA WERE COLLECTED AND DESCRIBES SMALLER AND SMALLER AREAS TO GIVE USER A GENERAL AREA OF DATA COLLECTION.

ABSTRACT -- CONTAINS GENERAL INFORMATION ABOUT WHY THE DATA WERE COLLECTED AND WHERE, METHODS OF ANALYSIS AND PERTINENT CONCLUSIONS.

DATA AVAILABILITY -- CONTAINS RESTRICTIONS ON DATA USE, IF BLANK IT MEANS THERE ARE NO KNOWN RESTRICTIONS.

PLATFORM TYPES -- LIST OF TYPES OF PLATFORMS (IF ANY) USED TO COLLECT DATA.

ARCHIVE MEDIA -- MEDIA ON WHICH DATA ARE STORED AND A ROUGH ESTIMATE OF THE SIZE OF THE FILE.

FUNDING -- ORGANIZATION FUNDING THE DATA COLLECTION (IF KNOWN).

INVENTORY -- WHEN DETAILED INFORMATION ON STATION LOCATIONS, COUNTS OF OBSERVATIONS/SAMPLES, ETC. ARE AVAILABLE, IT WILL BE DENOTED HERE.

PUBLICATIONS -- PUBLICATIONS RESULTING FROM THIS DATA SET (LIST IS SOMETIMES CONDENSED).

CONTACT -- NAME, ADDRESS AND PHONE NUMBER OF PERSON TO CONTACT TO OBTAIN FURTHER INFORMATION OR ACTUAL COPIES OF DATA.

GRID LOCATOR -- A SERIES OF NUMBERS USED TO MAKE GEOGRAPHIC RETRIEVAL POSSIBLE ON A COMPUTER. LATITUDE AND LONGITUDE ARE COMBINED INTO A SINGLE NUMBER. THE WORLD METEOROLOGICAL ORGANIZATION (WMO) CODE IS USED TO IDENTIFY AREAS WHERE DATA WERE COLLECTED. THIS MAY BE A 4, 6, 8, OR 10 DIGIT NUMBER DEPENDING ON WHETHER THE DATA HOLDER CHOSE TO IDENTIFY AREAS DOWN TO 10-DEGREE SQUARES OF LATITUDE AND LONGITUDE OR TO 1-DEGREE, 10-MINUTE, OR 1-MINUTE SQUARES. FOR A 4-DIGIT GRID LOCATOR THE NUMBERS ARE AS FOLLOWS:

DIGIT 1 -- QUADRANT OF WORLD: 1=NE, 3=SE, 5=SW, 7=NW.

DIGIT 2 -- TENS DIGIT OF LATITUDE.

DIGITS 3/4 -- HUNDREDS AND TENS DIGITS OF LONGITUDE.

THUS 7408 WOULD BE THE 10-DEGREE SQUARE OF WHICH THE POINT 40N AND 080W IS THE LOWER RIGHT HAND CORNER.

FOR A SIX DIGIT NUMBER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740813 WOULD IDENTIFY THE 1-DEGREE SQUARE OF 42N AND 085W.

WITH AN 8-DIGIT NUMBER, 74082534 REPRESENTS THE SQUARE AT 42-DEGREES, 30-MINUTES NORTH AND 085-DEGREES, 40-MINUTES WEST, OR 10-MINUTE SQUARE.

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THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUTE SQUARE,
OR A 10-DIGIT GRID LOCATOR (E.G., 7408253415 IS 42-DEGRESS
31-MINUTES NORTH AND 085-DEGRESS, 45-MINUTES WEST).
PARAMETER IDENTIFICATION SECTION -- THIS PORTION OF THE FILE DESCRIPTION
CONTAINS A LIST OF PARAMETERS MEASURED, THE SPHERE IT WAS MEASURED
IN, THE METHODS USED AND THE UNITS OF MEASUREMENT. IN ADDITION,
SUCH INFORMATION AS THE NUMBER OF MEASUREMENTS OF EACH PARAMETER
AND THE FREQUENCY (IF REGULARLY SPACED) ARE REPORTED. A SPECIALIZED ENDEX
VOCABULARY IS AVAILABLE DEFINING THE PARAMETER, SPHERE, AND METHOD TERMS
USED.

QUESTIONS CONCERNING THIS OUTPUT SHOULD BE RELAYED TO THE NODC
OCEANOGRAPHIC SERVICES BRANCH (202) 634-7500 OR TO THE DATA INDEX BRANCH
(202) 634-7298.

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., NORTH ATLANTIC, COASTAL, OUTER BANKS OF NORTH CAROLINA AND CHESAPEAKE BAY TRIBUTARIES

ABSTRACT:

SURVEY OF PESTICIDES, CBS, AND HEAVY METALS IN GONADS, MESENTERY FAT, LIVER, AND PEDUNCLE MUSCLE OF STRIPED BASS FROM THE OUTER BANKS, N C AND TRIBUTARY RIVERS TO LOWER CHESAPEAKE BAY. INTENDED AS BASELINE DATA ON THE MIGRANT SEGMENT OF THE COASTAL POPULATION.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

DATA SHEETS

4 AREAS, 10 FISH PER AREA, 72 OBS PER FISH.

FUNDING:

BSFW AND VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN V MERRINER 207 781 2330

MAINE AUDUBON SOCIETY

GILSLAND FARM

FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):

730755 730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	4	STATIONS	1 TIME		
TIME	EARTH	STATION TIME	YMD	4	STATIONS	1 TIME		
SAMPLE OF DEMERSAL FISH	WATER	FORMALIN	10 FISH PER COLLECTION	80	OBS	1 TIME	BOTTOM	STRIPED BASS OBTAINED FROM COMMERCIAL CATCH, REPRESENTATIVE OF SIZE RANGE IN CATCH
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	480	OBS	1 TIME	BOTTOM	CONCENTRATIONS IN GONAD, LIVER, MESENTERY FAT, AND PEDUNCLE MUSCLE RELATED TO AGE, LENGTH, WEIGHT, AND SEX OF STRIPED BASS
POLYCHLORINATED BIPHENYLS IN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MERCURY IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
ZINC IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
CADMIUM IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
COPPER IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
NICKEL IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:

BOTH AERIAL AND GROUND SURVEYS WERE USED TO ESTIMATE THE NUMBER OF WATERFOWL, INCLUDING THE NUMBER OF SICK OR DEAD INDIVIDUALS IN VARIOUS PONDS AND CREEKS OF QUEEN ANNE'S AND CECIL COUNTIES, MARYLAND, DURING AND AFTER A SEVERE OUT BREAK OF LEAD POISONING. IN THE SUMMARY REPORT THE FACTORS INVOLVED IN THE OUTBREAK OF LEAD POISONING ARE DISCUSSED.

DATA AVAILABILITY:

PLATFORM TYPES:

AIRCRAFT; FIXED STATION

ARCHIVE MEDIA:

DATA SHEETS
ONE FILE OF DATA SHEETS AND A SUMMARY REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

SUMMARY REPORT AVAILABLE WILDLIFE MANAGEMENT ADMINISTRATIVE REPORT 73-4

CONTACT:

VERNON STOTTS 301-267-5195
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAVES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):

730786 730785 730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	6	STATIONS		PONDS OR CREEKS WITH LARGE COLLECTIONS OF WATERFOWL
TIME COUNT OF BIRDS	EARTH AIR	SAMPLING TIME VISUAL	YMD NUMBER OF INDIVIDUALS	11 315000	OBS OBS		BOTH AERIAL AND GROUND SURVEYS USED TO ESTIMATE NUMBER; ALSO ESTIMATED NUMBER OF INDIVIDUALS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY		14	OBS			SICK OR DEAD ALSO 33 CARCASSES FROM SEVERAL AREAS WERE NECROPSIED TO DETERMINE THE CAUSE OF DEATH
SPECIES DETERMINATION OF BIRDS	AIR	KEY	NUMBER OF SPECIES	2	OBS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS, WATER ANALYSIS, ANALYSIS OF FISH FOR CAUSE OF DEATH, DATA FROM 221 KILLS, 72 IN 1973 THROUGH OCTOBER 11, COUNTS, SIZES, SPECIES LISTS, VALUES FOR FISHES INVOLVED.
(SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS; REPORTS
1 FILE CABINET DRAWER

FUNDING:
MD DEPT NAT RES

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-267-5783
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730787 730795 730797

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	221	STATIONS			
TIME	EARTH	STATION TIME	YMDHML	221	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	500	OBS			USUALLY SURFACE, SOME PROFILES
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	500	OBS			USUALLY SURFACE, SOME PROFILES
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1000	OBS			YSI PROBE MODEL 51, PROFILE READINGS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1000	OBS		AZIDE MODIFICATION	PROFILES MADE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1000	OBS			PROFILE READINGS PROFILES MADE
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	100	OBS			PROFILES MADE
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1000	OBS			WATER RESOURCES ADMINISTRATION OF DEPARTMENT RUNS ANALYSES FOR PH, TOTAL ALKALINITY, HARDNESS, CYANIDE, PHENOLS, AMMONIA, METALS, PESTICIDES; SOME ANALYSES BY EPA LABORATORY
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	1000	OBS			
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	1000	OBS			
CYANIDE	WATER	TITRATION	COLORIMETRY	100	OBS			
PHENOLS	WATER	COLORIMETRY	COLORIMETRY	100	OBS			
AMMONIA	WATER	SPECTROPHOTOMETRY	COLORIMETRY	100	OBS			
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
POLYCHLORINATED BIPHENYLS	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDT	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDD	WATER	GAS CHROMATOGRAPH	PARTS PER	30	OBS			SPECIAL REQUEST

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NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		Y	BILLION					
DDD	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			IF SUSPECTED POLLUTANT SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DIELDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
ALDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
CHLORDANE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
HEPTACHLOR	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
COUNT OF PELAGIC FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221	OBS			COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER
COUNT OF DEMERSAL FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221	OBS			SURFACE COUNT COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221	OBS			
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221	OBS			
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221	OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221	OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
CYANIDE IN BIO MATERIAL	WATER	TITRATION	PARTS PER MILLION	30	OBS			GILLS, VISCERA, AND MUSCLE OF DEAD AND

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PHENOLS IN BIO MATERIAL	WATER	COLORIMETRY	PARTS PER MILLION	30	OBS			MORIBUND FISH
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
CHROMIUM IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PARTS PER MILLION	30	OBS			
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
CDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
ALDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			
HEPTACHLOR IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, NANTICOKE AND CHOPTANK RIVERS

ABSTRACT:

PESTICIDES AND PCB'S IN STRIPED BASS EGGS. 24 FISH COLLECTED FROM NANTICOKE AND CHOPTANK RIVERS, MARYLAND DURING SPAWNING SEASON IN 1972 AND 1973. BACKGROUND LEVELS SOUGHT AND POSSIBLE EFFECTSON SUCCESS OF SPAWNING EVALUATED. (ANALYSES PERFORMED BY EPA GULFBREEZE LAB, USFW SERVICE LAB IN COLUMBIA MISSOURI, AND WESTINGHOUSE OCEAN ENGINEERING CENTER (SEE THOMAS MUNSON FILE))

DATA AVAILABILITY:

COST OF DUPLICATION

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS

1 NOTEBOOK 2 INCHES THICK

FUNDING:

MARYLAND DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:

JOSEPH BOONE 301-267-5785

MARYLAND DEPARTMENT OF NATURAL RESOURCES

TAWES STATE OFFICE BUILDING

ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):

730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHDD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	16	STATIONS		
TIME	EARTH	STATION TIME	YMD	16	STATIONS		
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	ONE-TENTH INCHES PER FISH	24	OBS		FEMALES ON SPAWNING RUN FROM WHICH TISSUE TAKEN FOR ANALYSES, STRIPED BASS FEMALES ON SPAWNING RUN FROM WHICH
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	ONE-TENTH POUNDS	24	OBS		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
AGE DATING OF DEMERSAL FISH	WATER	SCALES	YEARS	24	OBS			TISSUE TAKEN FOR ANALYSES, STRIPED BASS FEMALES ON SPAWNING RUN FROM WHICH TISSUE TAKEN FOR ANALYSES, STRIPED BASS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	DDT FRACTION AND TOTAL RESIDUE IN PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	15	OBS			STRIPED BASS EGGS
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	12	OBS			STRIPED BASS EGGS
AROMATIC HYDROCARBONS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	7	OBS			BENZINE HEXACHORIDE IN STRIPED BASS EGGS

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, YORK RIVER

ABSTRACT:

DDD, DDE, DDT WERE MEASURED IN VARIOUS ORGANS OF BLUE CRABS FROM THE YORK RIVER, VIRGINIA.

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS

SEVERAL DATA SHEETS ARE INCLUDED IN M S THESIS

FUNDING:

INVENTORY:

PUBLICATIONS:

M S THESIS PETER F SHERIDAN, 1973 PESTICIDE LEVELS IN BLUE CRABS OF THE YORK RIVER ARE INCLUDED IN THESIS

CONTACT:

LIBRARIAN 804-642-2111
 VIRGINIA INSTITUTE OF MARINE SCIENCE
 GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YMD	5	OBS			
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	7	OBS			YORK RIVER VIRGINIA CONCENTRATIONS IN GILLS, HEPATOPANCREAS, OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	7	OBS			CONCENTRATIONS IN GILLS, HEPATOPANCREAS,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	7		OBS		OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS CONCENTRATIONS IN GILLS, HEPATOPANCREAS, OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, YORK RIVER

ABSTRACT:

ZINC, COPPER AND CADMIUM LEVELS WERE MEASURED IN HARD CLAMS (MERCENARIA MERCENARIA) COLLECTED AT 35 LOCATIONS IN THE LOWER CHESAPEAKE BAY OVER A ONE YEAR PERIOD BEGINNING MARCH 1972.

DATA AVAILABILITY:

THE RESULTS OF THE STUDY ARE AVAILABLE ON DATA SHEETS FROM VIMS.

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS
1200 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. PETER LARSEN 207 633 5572
MAINE DEPARTMENT OF MARINE RESOURCES
WEST BOUTH BAY HARBOR MAINE USA 04575

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	35	STATIONS			
TIME	EARTH	STATION TIME	YMDL	35	STATIONS			
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS			MERCENARIA
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS			MERCENARIA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS			MERCENARIA
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	1	OBS			MERCENARIA

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER JAMES RIVER, NEWPORT NEWS SHIPYARD

ABSTRACT:

130 OBSERVATIONS OF HEAVY METALS IN HARD CLAMS AND OYSTERS WERE OBSERVED AT 20 STATIONS IN THE NEWPORT NEWS SHIPYARD. COPPER, ZINC, AND CADMIUM WERE DETECTED BY ATOMIC ABSORPTION SPECTROMETRY

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS; REPORTS
DATA SHEETS FOR 20 STATIONS MEASURED FOR 2 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

REPORT TO BE SENT TO NEWPORT NEWS SHIPBUILDING AND DRYDOCK COMPANY

CONTACT:

ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	20	STATIONS			
TIME	EARTH	STATION TIME	YMDL	20	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
SPECIES	BOTTOM	KEY	NAME	130	OBS			CRASSOSTREA

044

NAME SPHERE METHOD UNITS DATA AMOUNT FREQUENCY HEIGHT/DEPTH REMARKS

DETERMINATION
OF BENTHIC
ANIMALS

VIRGINICA,
MERCENARIA
MERCENARIA

045



DATA COLLECTED: DECEMBER 1970 TO FEBRUARY 1971

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, YORK RIVER, RAPPAHANNOCK RIVER, VIRGINIA

ABSTRACT:

HEAVY METALS IN OYSTERS (CRASSOSTREA VIRGINICA) WERE SAMPLED AT 95 STATIONS IN THE LOWER CHESAPEAKE BAY. DATA APPEARS IN WATER RESEARCH 1973, VOL 7 PP451-460

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS

DATA SHEETS FOR 95 DAILY STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

WATER RESEARCH 1973 VOL 7, 451-460

CONTACT:

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GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	95	STATIONS			
TIME	EARTH	STATION TIME	YMDL	450	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA

MAR

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, RAPPAHANNOCK RIVER

ABSTRACT:

HEAVY METALS IN THE CLAM (RANGIA CUNEATA) AT 60 STATIONS FROM 1972 TO THE PRESENT IN THE JAMES AND RAPPAHANNOCK RIVERS

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS

DATA SHEETS FOR 7 PARAMETERS AT 60 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

VIMS SPECIAL SCIENTIFIC REPORT NO 44

CONTACT:

ROBERT CROONENBERG 703-642-2111

VIRGINIA INSTITUTE OF MARINE SCIENCE

GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	RIVER MILES	60	STATIONS			
TIME	EARTH	STATION TIME	YMDL	60	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	PERCENT SAND, SILT, CLAY	60	OBS			
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	CENTIMETERS	600	OBS			RANGIA CUNEATA
BIOMASS OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	GRAMS	600	OBS			RANGIA CUNEATA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	60	OBS		RANGIA CUNEATA

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:

CONCENTRATION OF SUSPENDED RADIOACTIVE WASTES IN BOTTOM DEPOSITS WERE MEASURED MONTHLY AT 1 STATION IN THE LOWER YORK RIVER FOR 6 MONTHS. DATA APPEAR IN PROGRESS REPORT TO AEC CONTRACT NO AT 401-2789
(ADSORPTION AND LEACHING OF RADIONUCLIDES FROM NATURAL AND ARTIFICIAL SEDIMENTS)

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS

PROGRESS REPORT FOR 1 STATION COVERING A 6 MONTH PERIOD -100 OBS

FUNDING:

AEC

INVENTORY:

PUBLICATIONS:

PROGRESS REPORT TO AEC CONTRACT NO AT 401-2789

CONTACT:

J E WARINNER 703-642-2111 X30
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YML	6	STATIONS			
CERIUM-144	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			
CESIUM-137	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			
RUTHENIUM-106	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:

CHEMICAL ANALYSIS OF 50 CORES IN THE CHANNEL OF THE JAMES RIVER.

DATA AVAILABILITY:

COST OF REPRODUCTION AND SMALL HANDLING CHARGE

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS
50 CORES

FUNDING:

INVENTORY:

PUBLICATIONS:

VIMS SPECIAL SCIENTIFIC REPORT NO 42

CONTACT:

ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	50	STATIONS		CENTER OF CHANNEL RED MARKER, BLACK MARKER
TIME TOTAL SOLIDS	EARTH SEDIMENT	STATION TIME DRY WEIGHT	YMDI PER CENT	148 148	STATIONS OBS	TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PER CENT	148	OBS	TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
CHEMICAL OXYGEN DEMAND	SEDIMENT	TITRATION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	TITRATION	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

NS1

DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1971

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:

A REPORT COMPARING THE CHLORINATED HYDROCARBONS IN 14 SURFACE AND 14 SUBSURFACE SAMPLES IN THE YORK RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS

A REPORT OF 14 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

DATA IN VIMS THESIS

CONTACT:

LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	14	STATIONS		
TIME	EARTH	STATION TIME	YMDL	14	STATIONS		
POLYCHLORINATED BIPHENYLS	WATER	GAS CHROMATOGRAPH Y	PARTS PER TRILLION	28	OBS	SURFACE FILM AND ONE METER DEPTH	

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PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER, GLOUCESTER POINT

ABSTRACT:

AN AEC PROGRESS REPORT BASED ON 500 MEASUREMENTS COLLECTED OVER 12 MOS. OF RADIO NUCLIDES IN BIO SEDIMENT AT ONE STATION IN THE YORK RIVER AT GLOUCESTER POINT, VA.

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
500 OBS. IN A REPORT

FUNDING:

AEC

INVENTORY:

PUBLICATIONS:

AEC PROGRESS REPORT CONTRACT NO 40-12789 LEACHING OF RADIONUCLIDES FROM BIOSEDIMENT OF CRASSOSTREA VIRGINICA, BRANCHIDONTES RECURVUS, MOLGULA MANHATTENSIS AND BALANOIDES EBURNUS

CONTACT:

J E WARINNER 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1				STATIONS
TIME	EARTH	STATION TIME	YMDL	1				STATIONS
CERIUM-144	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500				OBS
CESIUM-137	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500				OBS
RUTHENIUM-106	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500				OBS

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:

40 SEAWATER SURFACE FILM SAMPLES WERE COLLECTED IN THE LOWER YORK RIVER USING A DRUM-SKIMMING DEVICE IN CALM WATER IN A 6 MONTH PERIOD. FATTY ACIDS AND ALIPHATIC HYDROCARBONS WERE EACH TESTED BY THIN LAYER CHROMATOGRAPHY AND GAS CHROMATOGRAPHY FOR 2 SAMPLES AT EACH STATION.
(SAMPLES COLLECTED WITH DRUM-SKIMMING DEVICE AND OBSERVATIONS ARE LIMITED TO CALM SEA CONDITIONS)

DATA AVAILABILITY:

COST OF REPRODUCTION

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS

1 REPORT OF 40 BOTTLE STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

VIMS THESIS

CONTACT:

LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	40	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	40	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	40	OBS			
FATTY ACIDS	WATER	THIN LAYER CHROMATOGRAPHY	MICRO GRAMS PER LITER	80	OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	
FATTY ACIDS	WATER	GAS CHROMATOGRAPH Y	MICRO GRAMS PER LITER	80	OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	

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NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ALIPHATIC HYDROCARBONS	WATER	THIN LAYER CHROMATOGRAPHY	MICRO GRAMS PER LITER	80		OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER
ALIPHATIC HYDROCARBONS	WATER	GAS CHROMATOGRAPH Y	MICRO GRAMS PER LITER	80		OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER

055

RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES AND ELIZABETH RIVERS

ABSTRACT:

9 CHEMICAL ANALYSES WERE PERFORMED ON SEDIMENT SAMPLES TAKEN IN 15 FT CORES AT 227 MID CHANNEL LOCATIONS ALONG THE JAMES AND ELIZABETH RIVERS, FROM JUNE THROUGH AUGUST 1971. THE RESULTS OF THE STUDY ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS, AND HAVE BEEN PUBLISHED IN THE CORPS OF ENGINEERS REPORT, CONTRACT NO. DACW 65-71-C-0047.

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
5400 OBS

FUNDING:

CORP OF ENGINEERS REPORT CONTRACT NO. DACW 65-71-C-0047

INVENTORY:

PUBLICATIONS:

CONTACT:

ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	227	STATIONS			CENTER OF CHANNEL, BLACK MARKER, RED MARKER
TIME TOTAL SOLIDS	EARTH SEDIMENT	STATION TIME DRY WEIGHT	YMDL PERCENT	227 600	STATIONS OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND	

056

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, VIRGINIA THIMBLE SHOAL CHANNEL, NEWPORT NEWS CHANNEL, NORFOLK HARBOR CHANNEL, RAPPAHANNOCK RIVER CHANNEL, CAPE HENRY SHOAL CHANNEL, YORK RIVER SPIT CHANNEL, YORK RIVER ENTRANCE CHANNEL

ABSTRACT:

A STUDY OF CHANNEL SEDIMENTS IN 7 LOWER CHESAPEAKE BAY RIVERS WAS MADE FROM THE SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY AND SENT IN A REPORT TO THE CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS

A REPORT OF 9 PARAMETERS AT 7 STATIONS - 200 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

REPORT TO CORPS OF ENGINEERS

CONTACT:

ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP POSITIONS	7	STATIONS		
TIME	EARTH	STATION TIME	YMDL	7	STATIONS		
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	SULFURIC ACID DIGESTION

NEU

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:

ANALYSIS OF HEAVY METALS IN POTOMAC RIVER SEDIMENTS

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS

384 SEDIMENT SAMPLES ANALYZED FOR 12 HEAVY METALS FOR 48 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):

730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	3	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMOI	384	STATIONS	MONTHLY		
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
MANGANESE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
SODIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
POTASSIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		

090

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COBALT	SEDIMENT	SPECTROMETRY	MILLION	384	OBS	MONTHLY		
		ATOMIC ABSORPTION	PARTS PER					
CADMIUM	SEDIMENT	SPECTROMETRY	MILLION	384	OBS	MONTHLY		
		ATOMIC ABSORPTION	PARTS PER					
NICKEL	SEDIMENT	SPECTROMETRY	MILLION	384	OBS	MONTHLY		
		ATOMIC ABSORPTION	PARTS PER					
STRONTIUM	SEDIMENT	SPECTROMETRY	MILLION	384	OBS	MONTHLY		
		ATOMIC ABSORPTION	PARTS PER					
BORON	SEDIMENT	SPECTROMETRY	MILLION	384	OBS	MONTHLY		CARMINE DYE
		COLORIMETRY	PARTS PER MILLION					

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA

ABSTRACT:

HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY OF PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

DATA AVAILABILITY:

NOT ALL STATIONS AT SURFACE AND BOTTOM FOR HEAVY METALS. METALS ARE EXAMINED AT SURFACE AND BOTTOM ON CHESAPEAKE BAY AND POTOMAC RIVER, SURFACE ONLY ON PATUXENT RIVER

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS

38 PARAMETERS MEASURED MONTHLY

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):

730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMD	768	STATIONS	MONTHLY		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
MANGANESE	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SODIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
POTASSIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	WATER	SPECTROMETRY	MILLION	768	OBS	MONTHLY	BOTTOM	
		ATOMIC ABSORPTION	PARTS PER				SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
COBALT	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
CADMIUM	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
NICKEL	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
STRONTIUM	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
BORON	WATER	COLORIMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	CARMINE DYE
			MILLION				BOTTOM	
DEPTH	WATER	WIRE LENGTH	METERS	768	OBS	MONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	768	OBS	MONTHLY	SURFACE AND	
							BOTTOM	
PH	WATER	SPECIFIC ION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		ELECTRODE	MILLION				BOTTOM	
SALINITY	WATER	TITRATION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	MOHR
			THOUSAND				BOTTOM	
CHLORIDE	WATER	TITRATION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	MOHR
			MILLION				BOTTOM	
CALCIUM	WATER	TITRATION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
			MILLION				BOTTOM	
SILICATE	WATER	SPECTROPHOTOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	AMMONIUM
			MILLION				BOTTOM	MOLYBDATE
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
			MILLION				BOTTOM	
ORTHO PHOSPHATE	WATER	SPECTROPHOTOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	. KJELDAHL
			MILLION				BOTTOM	NITROGEN S-
								WATER M-
								TITRATION U-
								PARTS PER
								MILLION T-OBS
								Q-768 F-
								MONTHLY H-
								SURFACE AND
								BOTTOM R-
								DISTILLATION,
								AUTOANALYZER
DISSOLVED	WATER	TITRATION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	WINKLER
OXYGEN GAS			MILLION				BOTTOM	
BIOCHEMICAL	WATER	TITRATION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	5 DAY STABILITY
OXYGEN DEMAND			MILLION				BOTTOM	METHOD
TOTAL CARBON	WATER	CALCULATED	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
DIOXIDE			MILLION				BOTTOM	
WEATHER	AIR	VISUAL	GENERAL	768	OBS	MONTHLY		CBI DATA REPORT
			OBSERVATIONS					18 REF 54-5
MAGNESIUM	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	
		SPECTROMETRY	MILLION				BOTTOM	
SULFATE	WATER	NEPHELOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	BARIUM SULFATE
			MILLION				BOTTOM	
NITRITE	WATER	SPECTROPHOTOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	ALPHA NAPHTLAMIN

000

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRATE	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER MILLION	768	OBS	MONTHLY	BOTTOM SURFACE AND BOTTOM	E CADMIUM REDUCTION
AMMONIA	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	DISTILLATION, AUTOANALYZER
COUNT OF MICROBIOTA	WATER	FILTRATION	MILLIGRAMS PER LITER	768	OBS	MONTHLY	SURFACE AND BOTTOM	BACTERIAL COUNT
LIGHT ATTENUATIO N	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
BICARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ALKALINITY	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	AS CALCIUM CARBONATE

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, MURDERKILL RIVER, ST JONES RIVER

ABSTRACT:

SURVEY OF TRACE METAL CONCENTRATIONS IN THE SEDIMENTS OF THE MURDERKILL AND ST JONES RIVERS DELAWARE IN ORDER TO ESTABLISH BASELINES PRIOR TO OPERATION OF THE KENT COUNTY REGIONAL SEWAGE TREATMENT PLANT

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
25 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:

DELAWARE BAY REPORT SERIES VOL 3 REPORT NO 3 UNIV OF DEL, NEWARK DELAWARE

CONTACT:

FREDERICK BOPP 302-738-2842
COLLEGE OF MARINE STUDIES
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):

730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	56	STATIONS			
TIME	EARTH	STATION TIME	YML	1	STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO- CHLORIC ACID EXTRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO- CHLORIC ACID EXTRACTION

530

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION

996

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE

ABSTRACT:
SURVEY OF TRACE METAL CONCENTRATIONS IN SEDIMENTS COLLECTED FROM THE DELAWARE BAY, REPORT CHARACTERIZED TRACE METALS TO THEIR
PRIMARY SOURCE AND THE MAJOR FACTOR INFLUENCING THEIR DISTRIBUTION

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
46 PAGES, MAPS ON THE DISTRIBUTION OF TRACE METALS

FUNDING:

INVENTORY:

PUBLICATIONS:
DELAWARE BAY REPORT SERIES VOL 3 REPORT NO 2 UNIV OF DEL, NEWARK, DEL

CONTACT:
FREDERICK BOPP 302-738-2842
COLLEGE OF MARINE STUDIES
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730785 730795 730794 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	92	STATIONS			
TIME	EARTH	STATION TIME	YML	1	STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, CRANEY ISLAND, BUCKROE BEACH

ABSTRACT:

COMPARATIVE STUDY OF BIOTIC AND ABIOTIC PARAMETERS OF CRANEY ISLAND AND BUCKROE BEACH AREAS. SURVEY OF FISH, INVERTEBRATES AND HEAVY METALS

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS
120 SAMPLING EFFORTS

FUNDING:

US ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:

REPORT SENT TO U S ARMY CORPS OF ENGINEERS

CONTACT:

RAY BIRDSONG 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):

730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	12	STATIONS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	120	OBS	MONTHLY	SURFACE	
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	120	OBS	MONTHLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	120	OBS	MONTHLY	SURFACE	
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	120	OBS	MONTHLY	SURFACE	10 FOOT OTTER TRAWL, 1 INCH MESH, BEACH SEINE

690

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER STATION	120	OBS	MONTHLY	SURFACE	
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	WEIGHT PER STATION	120	OBS	MONTHLY	SURFACE	10 FOOT OTTER TRAWL, 1 INCH MESH, BEACH SEINE
LENGTH OF DEMERSAL FISH	WATER	STANDARD LENGTH	MILLIMETERS	120	OBS	MONTHLY	SURFACE	SUBSAMPLE FROM EACH TRAWL
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	120	OBS	MONTHLY	BOTTOM	BAG DREDGE, OTTER TRAWL, PETERSON GRAB
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER STATION	120	OBS	MONTHLY	BOTTOM	
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR

070

PROJECTS:

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, VIRGINIA, BIG SANDY RIVER BASIN, CLINCH RIVER BASIN, HOLSTON RIVER BASIN, NEW RIVER BASIN, ROANOKE RIVER BASIN, CHOWAN RIVER BASIN, SHENANDOAH RIVER BASIN, RAPPAHANNOCK RIVER BASIN, YORK RIVER BASIN, JAMES RIVER BASIN, CHESAPEAKE BAY, YADKIN RIVER BASIN, ALBEMARLE SOUND, POTOMAC RIVER BASIN

ABSTRACT:

REPORT CONTAINING HEAVY METAL CONCENTRATIONS IN THE MAJOR RIVER BASINS OF VIRGINIA INCLUDING CHESAPEAKE BAY AND TRIBUTARIES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

REPORTS
171 PAGES; 12,533 OBSERVATIONS FROM 700 SAMPLING LOCATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

BASIC DATA BULLETIN NO 40, AUGUST 1972 TECHNICAL SERVICES DIVISION, RICHMOND VA

CONTACT:

MICHAEL A BELLANCA 804-770-5518
VIRGINIA STATE WATER QUALITY CONTROL BOARD
TECHNICAL SERVICES DIVISION
RICHMOND VIRGINIA USA 23230

GRID LOCATOR (LAT):

730787 730777 730767 730788 730778 730768 730766 730776 730788

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILE	700	STATIONS		NOT ALL STATIONS HAVE BEEN SAMPLED OVER REPORT PERIOD
TIME	EARTH	STATION TIME	YMDL	2191	STATIONS		
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1890	OBS		
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1873	OBS		
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1589	OBS		
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1891	OBS		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
IRON	WATER	SPECTROMETRY ATOMIC ABSORPTION	MG PER LITER	1589	OBS			
MANGANESE	WATER	SPECTROMETRY ATOMIC ABSORPTION	MG PER LITER	1549	OBS			
ARSENIC	WATER	SPECTROMETRY ATOMIC ABSORPTION	MG PER LITER	523	OBS			
MERCURY	WATER	SPECTROMETRY ATOMIC ABSORPTION	MG PER LITER	1094	OBS			
CADMIUM	WATER	SPECTROMETRY ATOMIC ABSORPTION	MG PER LITER	591	OBS			

072

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, RAPPAHANNOCK RIVER, POTOMAC RIVER

ABSTRACT:
SURVEY OF THE LEVEL OF CONTAMINATION DUE TO DDT AND ITS METABOLITES IN THE ALEWIFE, ALOSA PSEUDOHARENGUS AND A DESCRIPTION OF THE ROLE OF THE ANADROMOUS FISH IN PESTICIDE TRANSPORT

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
34 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, T A BARNARD JR 1971

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS		JAMES, RAPPAHANNOCK AND POTOMAC RIVERS CONSIDERED AS ONE STATION EACH
TIME	EARTH	STATION TIME	YMDL	1	STATIONS		SPAWNING RUN FROM 15 APR TO 15 JUNE, 1970
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MILLIMETERS	96	OBS		ALEWIFE, ALOSA PSEUDOHARENGUS
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS	96	OBS		ALEWIFE, ALOSA PSEUDOHARENGUS

073

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	96	OBS			TOTAL DDT RESIDUES; DDE, DDD AND DDT; WHOLE FISH; ALEWIFE, ALOSA PSEUDOHARENGUS

074

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
SURVEY OF ZOOPLANKTON IN THE CHESTER RIVER, MARYLAND. STUDY INCLUDES HYDROGRAPHIC DATA, COMMUNITY STRUCTURE ANALYSES, BIOMASS ESTIMATES AND LEVELS OF CHLORINATED HYDROCARBON CONCENTRATIONS IN ZOOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
192 SAMPLES PROCESSED

FUNDING:
WESTINGHOUSE, MARYLAND DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE, VOL 1, 2, 3

CONTACT:
JOSEPH FORNS 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION
OCEAN RESEARCH LABORATORY, BOX 1771
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	12	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	24	OBS		SURFACE AND 1 METER FROM BOTTOM	BECKMAN RS-5; RUNNING TIDE IN MORNING
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	24	OBS		SURFACE AND 1 METER FROM BOTTOM	
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, WHOLE	NUMBER PER CUBIC METER	192	OBS		1 METER FROM SURFACE, 1 METER FROM BOTTOM	202 MICRON MESH UNISCO STANDARD 1/2 METER NET;

075

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES, NUMBER OF INDIVIDUALS PER SPECIES, PERCENT COMPOSITION	192	OBS		1 METER FROM SURFACE, 1 METER FROM BOTTOM	1000 MICRON MESH; FLOW RATE AND EFFICIENCY CALCULATED, APPROXIMATELY 30 SPECIES
DIVERSITY INDEX OF ZOOPLANKTON	WATER	MARGALEF	UNITS	192	OBS			SPACIAL AND TEMPORAL DISTRIBUTIONS
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	NUMBERS	192	OBS			COMPARISON OF STATIONS AND SAMPLE VARIATION AND CORRELATION
BIOMASS OF ZOOPLANKTON	WATER	WET WEIGHT	MILLIGRAMS PER CUBIC METER	192	OBS			
BIOMASS OF ZOOPLANKTON	WATER	DRY WEIGHT	MILLIGRAMS PER CUBIC METER	192	OBS			DRIED AT 60 DEGREES
VOLUME DETERMINATION OF ZOOPLANKTON	WATER	SETTLING	MILLIGRAMS PER LITER	192	OBS			
BIOMASS OF ZOOPLANKTON	WATER	ASH WEIGHT	MILLIGRAMS ORGANIC CARBON PER CUBIC MILLIMETER	192	OBS			IGNITION AT 200 DEGREES C; WEIGHED
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON

076

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
THIS PORTION OF THE CHESTER RIVER, (MARYLAND) STUDY WAS CONCERNED WITH THE PRESENCE OF CHLORINATED HYDROCARBONS IN THE BIOTA AND SEDIMENT IN THE RIVER. RESEARCH EFFORTS WERE DIRECTED TO DETERMINE THE EXISTING LEVELS OF CHLORINATED HYDROCARBONS. THEIR SOURCES, SINKS AND FLUCTUATIONS. CHLORINATED HYDROCARBONS FOUND IN SEDIMENT WERE CORRELATED TO MEAN GRAIN SIZE DIAMETER AND WITH RESPECT TO DISTRIBUTION ALONG THE MAIN RIVER COURSE.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
150 SEDIMENT SAMPLES; 100 SAMPLES OF THE BIOTA

FUNDING:
WESTINGHOUSE, MARYLAND DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE, VOL 1, 2, 3

CONTACT:
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OCEAN RESEARCH LABORATORY, BOX 1771
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
.....
POSITION	EARTH	FIXED POINT	MAP LOCATION	25	STATIONS	QUARTERLY		
TIME	EARTH	STATION TIME	YMDL	150	STATIONS	25 STATIONS ON A QUARTERL Y BASIS		
LINDANE	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	CHLORINATED HYDROCARBONS
ALDRIN	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DIELDRIN	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
ENDRIN	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
DDT	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
DDD	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
DDE	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
TOXAPHENE	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
CHLORDANE	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
POLYCHLORINATED BIPHENYLS	SEDIMENT	GAS CHROMATOGRAPH Y	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERL Y BASIS	BOTTOM	
LINDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
ALDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH

078

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ENDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100		OBS		EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS. YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA.
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100		OBS		EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA.
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100		OBS		EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA.
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100		OBS		EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA,

079
620

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TOXAPHENE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER, CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH

080

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
SURVEY OF TRACE METALS IN SEDIMENTS OF THE CHESTER RIVER, MARYLAND. CONCENTRATIONS OF METALS CORRELATED TO GRAIN-SIZE CHARACTERISTICS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
25 SEDIMENT SAMPLES; 6 TRACE METALS

FUNDING:

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE VOL 1, 2, 3

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ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	25	STATIONS			
TIME	EARTH	STATION TIME	YMDL	25	STATIONS			
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS

180

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS		CHARACTERISTICS CORRELATED TO GRAIN-SIZE
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS		CHARACTERISTICS CORRELATED TO GRAIN-SIZE

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, WARE RIVER, SEVERN RIVER

ABSTRACT:

TWO TIDAL MARSHES ALONG THE SEVERN AND WARE RIVERS, VIRGINIA ARE SAMPLED MONTHLY OVER A TWO YEAR PERIOD TO DETERMINE FAUNAL POPULATION SIZES AND FLORAL PRODUCTIVITY. RESPIRATION RATES ARE MEASURED ON BOTH MACROFAUNA AND BENTHOS. COMPARISONS ARE MADE BETWEEN ONE CONTROL MARSH AND ONE MARSH TREATED WITH OIL.
(AVAILABLE AS VIMS PH D DISSERTATION, JUNE 1975)

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

DATA SHEETS
SIX NOTEBOOKS OF 25 TO 50 DATA SHEETS EACH

FUNDING:

THE VIRGINIA INSTITUTE OF MARINE SCIENCE

INVENTORY:

PUBLICATIONS:

CONTACT:

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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			TWO TIDAL MARSHES USED FOR SAMPLING
TIME	EARTH	STATION TIME	YMDH	96	OBS	MONTHLY		STUDY WILL CONTINUE FOR AN APPROXIMATE TWO YEAR PERIOD
COUNT OF INSECTS	LAND	VISUAL	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH
SPECIES DETERMINATION OF INSECTS	LAND	KEY	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	190	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER PER SPECIES AND POPULATION SIZE	190	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS	190	OBS	MONTHLY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO-FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO-FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
BIOASS OF	BOTTOM	DRY WEIGHT	GRAMS PER M2	96	OBS	MONTHLY		PRODUCTIVITY OF

COUNT OF BIRDS

AIR

VISUAL

NUMBER PER SPECIES

96

OBS

MONTHLY

SPECIES DETERMINATION OF BIRDS

AIR

KEY

NUMBER PER SPECIES

96

OBS

MONTHLY

QUADRAT SIGHTINGS OF BIRDS INHABITING MARSH AREA
SIGHTINGS OF BIRDS INHABITING MARSH AREA

085

RECEIVED: APRIL 29, 1974

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA PRESENTED FOR 19 STATIONS IN THE C AND D CANAL. SAMPLE ANALYSIS BY X-RAY ACTIVATION AND REPORTED AS A PLOT FOR EACH SAMPLE.
(IN APPENDIX 13 FINAL REPORT, NRI REFERENCE NUMBER 73-112, METHODS OF F.C. YOUNG, M.L. ROUSH, AND P.G. BERMAN, TECHNICAL REPORT 72-098, DEPT. PHYSICS AND ASTRONOMY, UNIVERSITY OF MD.)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
19 PAGES IN REPORT

FUNDING:
U.S. ARMY CORPS OF ENGINEERS CONTRACT NO DACW 61-71-C-0062

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	19	STATIONS		
TIME	EARTH	STATION TIME	YMD	19	STATIONS		
ALUMINUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
		E					
CADMIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
		E					
IRON	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
		E					
MANGANESE	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
		E					
POTASSIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
STRONTIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
TITANIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
YTTRIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
ZINC	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		
ZIRCONIUM	SEDIMENT	X-RAY FLUORESCENC	COUNTS	19	STATIONS		

DATA COLLECTED: FEBRUARY 1969 TO AUGUST 1972

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, TRIBUTARIES, EASTERN SHORE OF VIRGINIA

ABSTRACT:

VARIATION OF BLOOD SERUM CHLORIDE, MAJOR CATIONS, OSMOTIC CONCENTRATION, PROTEIN, GLUCOSE, TOTAL NINHYDRIN POSITIVE SUBSTANCES, AND TRACE METALS WERE DETERMINED IN NATURE BLUE CRABS, CALLINECTES SAPIDUS, TAKEN FROM A RANGE OF ENVIRONMENTAL CONDITIONS IN TIDAL WATERS OF VIRGINIA.

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP; FIXED STATION

ARCHIVE MEDIA:

PUNCHED CARDS
SEVERAL THOUSAND PUNCHED CARDS

FUNDING:

NATIONAL MARINE FISHERIES SERVICE, SEA GRANT, U.S. PUBLIC HEALTH SERVICE

INVENTORY:

PUBLICATIONS:

LYNCH, M.P., K.L. WEBB, W.A. VAN ENGLE 1973. COMP. BIOCHEM. PHYSIOL 44A: 719-734; LYNCH, M.P. AND K.L. WEBB. 1973. COMP. BIOCHEM. PHYSIOL. 44A. 1237-1249; LYNCH, M.P. AND K.L. WEBB. 1973. COMP. BIOCHEM. PHYSIOL. 45A:127-139; COLVOCORESSES, J., M.P. LYNCH, K.L. WEBB 1974. COMP. BIOCHEM. PHYSIOL. 49A:787-803; COLVOCORESSES, J. AND M.P. LYNCH 1974. COMP. BIOCHEM. PHYSIOL. 50A:135-139.

CONTACT:

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GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):

730766 730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	39	STATIONS		
TIME	EARTH	STATION TIME	YMD	100	OBS		SOME STATIONS SAMPLED MONTHLY OTHERS ONLY DURING SUMMER, OTHERS ONCE
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	100	OBS	SURFACE	
TEMPERATURE	WATER	NON-REVERSING	DEG C	100	OBS	SURFACE	

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHLORIDE IN BIO MATERIAL	WATER	THERMOMETER TITRATION	MILLI-EQUIVALENTS PER LITER	1400	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
GLUCOSE IN BIO MATERIAL	WATER	COLORIMETRY	MG PER 100 ML	1200	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
PROTEIN IN BIO MATERIAL	WATER	COLORIMETRY	MG PER ML	1400	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
AMINO ACIDS IN BIO MATERIAL	WATER	COLORIMETRY	MICROMOLES PER ML	30	OBS			FREE AMINO ACIDS IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
NINHYDRIN PLUS SUBSTANCES IN BIO MATERIAL	WATER	COLORIMETRY	MICROMOLES PER ML	800	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
SODIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
POTASSIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
CALCIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
MAGNESIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
LIPIDS IN BIO MATERIAL	WATER	COLORIMETRY	PARTS PER MILLION	500	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	900	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	900	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
OSMOTIC CONCENTRATION OF BIO	WATER	FREEZING POINT DEPRESSION	MILLIOSMOLES	1000	OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL							SAPIDUS

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, YORK, RAPPAHANNOCK, JAMES, ELIZABETH RIVERS, LYNNHAVEN BAY

ABSTRACT:

RESULTS OF PESTICIDE ANALYSES PERFORMED BY THE VIRGINIA INSTITUTE OF MARINE SCIENCE AND THE VIRGINIA STATE WATER CONTROL BOARD ON OYSTERS OBTAINED FROM THE LOWER CHESAPEAKE BAY AND TRIBUTARIES ARE ON FILE AT THE BUREAU OF SHELLFISH SANITATION (ANALYSES WERE PERFORMED BY THE VIRGINIA INSTITUTE OF MARINE SCIENCE AND THE VA. STATE WATER CONTROL BOARD)

DATA AVAILABILITY:

GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

DATA SHEETS
25 DATA SHEETS

FUNDING:

STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

GRID LOCATOR (LAT):

730776 730766 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION TIME	EARTH EARTH	FIXED POINT STATION TIME	MAP LOCATION YMD	10 680	STATIONS OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971- 1972		1 OBS PER STATION
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	680	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971- 1972		WET WEIGHT IN OYSTER FLESH
DDD IN BIO	WATER	GAS CHROMATOGRAPH	PPM	680	OBS	MONTHLY UNTIL		WET WEIGHT IN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		Y				1970, QUARTERLY FROM 1971- 1972		OYSTER FLESH
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	680	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971- 1972		WET WEIGHT IN OYSTER FLESH
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	580	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971- 1972		WET WEIGHT IN OYSTER FLESH

PROJECTS:
GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, JAMES, YORK, POTOMAC, ELIZABETH RIVERS, WILLOBY BAY

ABSTRACT:

SAMPLES OF OYSTERS ARE OBTAINED FROM FORTY STATIONS IN THE LOWER CHESAPEAKE BAY AND ITS TRIBUTARIES AND ANALYSED FOR CU, CD, ZN, HG AT SIX MONTH INTERVALS. THE PROGRAM ATTEMPTS TO MONITOR SHELLFISH CONTAMINATION IN VIRGINIA WATERS BY HEAVY METALS

DATA AVAILABILITY:

GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

DATA SHEETS
100 DATA SHEETS PER YEAR

FUNDING:

VA DEPARTMENT OF HEALTH

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

GRID LOCATOR (LAT):

730766 730776 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	40	STATIONS			
TIME	EARTH	STATION TIME	YMD	160	OBS	TWICE A YEAR		
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160	OBS	TWICE A YEAR		3 OBS PER STATION FROM A MIXTURE OF 10 OYSTERS; WET WEIGHT IN OYSTER TISSUE
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160	OBS	TWICE A YEAR		3 OBS PER STATION FROM A MIXTURE OF 10 OYSTERS; WET WEIGHT IN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160	OBS	TWICE A YEAR		OYSTER TISSUE 3 OBS PER STATION FROM A MIXTURE OF 10 OYSTERS; WET WEIGHT IN OYSTER TISSUE
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	36	OBS	TWICE A YEAR		SAMPLES FROM ONLY 9 STATIONS

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, VA TIDAL RIVERS AND BAYS

ABSTRACT:

OYSTERS OBTAINED AT SIX MONTH INTERVALS FROM STATIONS LOCATED IN TIDAL TRIBUTARIES AND BAYS OF VIRGINIA ARE ANALYSED FOR DDT, DDD, DDE, DIELDRIN, PCB. THE DATA IS USED TO MONITOR SHELLFISH CONTAMINATION BY THE CHEMICALS.

DATA AVAILABILITY:

GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

DATA SHEETS
20 DATA SHEETS PER YEAR

FUNDING:

STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

GRID LOCATOR (LAT):

730776 730766 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	18	STATIONS		
TIME	EARTH	STATION TIME	YMD	36	OBS	TWO SAMPLINGS PER YEAR	
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR	14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE

095

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE
960 DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE

NAME SPHERE METHOD UNITS DATA AMOUNT FREQUENCY HEIGHT/DEPTH REMARKS

4 STATIONS
EACH SAMPLED
BY ONE
ANALYSIS OF A
MIXTURE OF 10
OYSTERS FROM
EACH STATION

097



RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:

FINFISH, BLUE CRAB, SHRIMP, OYSTERS, MUD CRABS, MUSSELS WERE OBTAINED FROM LOCATIONS IN THE DELAWARE RIVER, NEAR THE E.I. DUPONT CHAMBERS WORKS, AND WERE ANALYSED FOR HEAVY METALS. THE RESULTS ARE PRESENTED IN A REPORT WHICH IS AVAILABLE FROM E.I. DUPONT DENEMOURS AND COMPANY
(CONTRACT WORK DONE FOR E.I. DUPONT DENEMOURS AND COMPANY)

DATA AVAILABILITY:

REPORT AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
ONE 50 PAGE REPORT

FUNDING:

E.I. DUPONT DENEMOURS AND COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):

730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS		
TIME	EARTH	STATION TIME	YMD	10	OBS		
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	130	OBS		FISH COLLECTED USING SEMI-BALLOON TRAWL; 10 SPECIMENS OF 4 DOMINANT SPECIES AT EACH STATION ANALYSED FOR CONCENTRATIONS

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MERCURY IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	100		OBS		IN GUT AND FLESH TISSUE CONCENTRATIONS DETERMINED IN FLESH OF BLUE CRABS, SHRIMP, OYSTERS, MUD CRABS, MUSSELS TAKEN AT EACH STATION
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40		OBS		CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
COPPER IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20		OBS		CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
CHROMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40		OBS		CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
CHROMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20		OBS		CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40		OBS		CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
LEAD IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20		OBS		CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40		OBS		CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
ALUMINUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
ALUMINUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	GBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
TRACE METAL CONDITIONS OF THE BOTTOM SEDIMENTS IN THE DELAWARE BAY NEAR EXISTING OYSTER BANKS WERE INVESTIGATED IN ORDER TO LOCATE AREAS SUITABLE FOR THE LOCATION OF CULTURED OYSTER BANKS.
(UNPUBLISHED M.S. THESIS OF FREDERICK BOPP III, JUNE 1973)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 135 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 302 738 2455
MORRIS LIBRARY
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795 730794 730785 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	119	STATIONS			
TIME	EARTH	STATION TIME	YMD	119	OBS			
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT	119	OBS			SAND, SILT, OR CLAY
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:

WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE PROPOSED NUCLEAR GENERATING STATION AT CALVERT CLIFFS, MARYLAND ARE ANALYSED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY IN THE FORM OF YEARLY CONTRACT REPORTS BY THE PHILA. ACADEMY. (CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:

REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
YEARLY REPORTS EACH APPROXIMATELY 100 PAGES

FUNDING:

BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):

730786

103

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	5	STATIONS			LOCATED ALONG 30 FT DEPTH CONTOUR NEAR SHORE
TEMPERATURE	EARTH WATER	STATION TIME THERMISTOR	YMD DEG C	350 700	OBS OBS	MONTHLY MONTHLY	SURFACE AND BOTTOM	
CHLORIDE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH		REMARKS
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	700	OBS	MONTHLY	SURFACE AND BOTTOM		BECKMAN ZEROMATIC METER
SALINITY	WATER	CONDUCTIVITY	PPT	700	OBS	MONTHLY	SURFACE AND BOTTOM		
SILICATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
SULFATE	WATER	GRAVIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
ORTHOPHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
PHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
NITRATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
NITRITE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
AMMONIA	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
HARDNESS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		TOTAL, CALCIUM, MAGNESIUM
PHENOLPHTHALEIN ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
TOTAL ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		METHYL PURPLE INDICATOR
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
LIGHT ATTENUATIO N	WATER	SPECTROPHOTOMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		STANDARD METHODS PROCEDURE
CALCIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		CALCULATED FROM CA HARDNESS VALUES
MAGNESIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM		CALCULATED FROM MG HARDNESS VALUES
CARBONATE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND		CALCULATED FROM

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ALKALINITY							BOTTOM	METHYL PURPLE ALKALINITY
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER PER 100 ML	350	OBS	MONTHLY	SURFACE	TOTAL COLIFORM AND PRESUMPTIVE COLIFORM
IRON	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
MANGANESE	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
SODIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
POTASSIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
STRONTIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COBALT	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COPPER	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
NICKEL	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
LEAD	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
ZINC	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CALCIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CADMIUM	WATER	COLORIMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
BORON	WATER	COLORIMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100

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PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, U.S., CHESAPEAKE BAY, PATAPSCO RIVER, COASTAL

ABSTRACT:

ANALYSIS OF OYSTER MEATS FROM PATAPSCO RIVER, MARYLAND FOR GOLD AND MERCURY BY NEUTRON ACTIVATION ANALYSIS. SINGLE STATION SOURCE OF OYSTERS. PROGRAM INTENT WAS TO PROVIDE BASELINE DATA AND EVALUATE ANALYTIC TECHNIQUE. DATA FILE INCLUDES ENERGY SPECTRA FOR EACH SAMPLE.
(MS THESIS, R. T. MOHR, 1971)

DATA AVAILABILITY:

INTERLIBRARY LOAN

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
97 PAGES

FUNDING:

UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):

730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	1	STATIONS		
TIME	EARTH	STATION TIME	YMD	1	STATIONS		
GOLD IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PPM DRY WEIGHT	14	OBS		OYSTER MEAT
MERCURY IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PPB DRY WEIGHT	14	OBS		OYSTER MEAT

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL

ABSTRACT:

SAMPLES OF OYSTERS TAKEN FROM 4 SITES IN MARYLAND WATERS ANALYZED FOR CADMIUM. INTENT OF STUDY WAS TO PROVIDE BASELINE DATA AND EVALUATE TECHNIQUE FOR ANALYSIS.
(MS THESIS BY P.H. GRAHAM, 1971, DEPARTMENT OF CIVIL ENGINEERING)

DATA AVAILABILITY:

INTERLIBRARY LOAN

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
45 PAGES

FUNDING:

UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):

730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	4	STATIONS		
TIME	EARTH	STATION TIME	YMD	4	STATIONS		
CADMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM WET WEIGHT	16	OBS		OYSTERS ANALYZED
WEIGHT OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	GM	16	OBS		OYSTERS, MEAT ONLY

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PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:

AT THE REQUEST OF THE BALTIMORE GAS AND ELECTRIC COMPANY A PROGRAM OF STUDIES WAS INITIATED IN 1970 TO DETERMINE THE GROWTH, MORTALITY AND FOULING ASSOCIATED WITH OYSTERS AT VARIOUS LOCATIONS IN THE CALVERT CLIFFS AREA OF CHESAPEAKE BAY. RESULTS ARE AVAILABLE IN ANNUAL REPORTS TO THE BALTIMORE GAS AND ELECTRIC COMPANY.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
FOUR YEARLY REPORTS APPROXIMATELY 25 PAGES EACH

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
.....
POSITION	EARTH	FIXED POINT	MAP	3	STATIONS		
TIME	EARTH	STATION TIME	YMD	36	OBS	QUARTERLY	6 OYSTER TRAYS CONTAINING 40 OYSTERS PER TRAY ARE LOCATED AT EACH STATION AND ARE REMOVED AND EXAMINED 4 TIMES PER YEAR

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MORPHOMETRIC MEASURE OF BENTHIC ANIMALS	BOTTOM	DIRECT	MM	36	OBS	QUARTERLY		LENGTH AND WIDTH OF ALL LIVING OYSTERS ON TRAYS
COUNT OF PERIPHYTON	WATER	VISUAL	NUMBER PER SPECIES	36	OBS	QUARTERLY		ORGANISMS ADHERING TO OYSTER TRAYS; ORGANISMS INSIDE TRAYS WITH OYSTERS
COUNT OF PERIPHYTON ON BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES	36	OBS	QUARTERLY		ORGANISMS ADHERING TO OYSTERS
MORTALITY OF BENTHIC ANIMALS	BOTTOM	VISUAL	PERCENT	36	OBS	QUARTERLY		OYSTERS IN TRAYS
BIOLOGICAL CONDITION OF BENTHIC ANIMALS	BOTTOM	VISUAL	SCALE	36	OBS	QUARTERLY		VISUAL OPACITY OF OYSTER MEAT DUE TO GLYCOGEN CONTENT IS BASED ON A SCALE OF 1 TO 10

RECEIVED: JANUARY 06, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, COASTAL, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:

CONTINUING STUDY TO DETERMINE THE FACTORS AFFECTING THE OSPREY REPRODUCTIVE SUCCESS. EGGS FROM CLUTCHES WERE ANALYZED FOR ORGANOCHLORINE PESTICIDES, PCB, LEAD, CADMIUM AND MERCURY.

DATA AVAILABILITY:

COST OF REPRODUCTION

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
100 PAGES

FUNDING:

US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:

SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT. 1972. P. 60-61

CONTACT:

R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20810

GRID LOCATOR (LAT):

730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS		LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	16	STATIONS		
SPECIES DETERMINATION OF BIRDS	AIR	KEY		16	STATIONS		OSPREY TISSUE AND EGGS
COUNT OF BIRDS	AIR	VISUAL		16	STATIONS		OSPREY
FECUNDITY OF BIRDS	AIR	VISUAL	OSPREY EGGS AND PERCENT HATCHLINGS	16	STATIONS		OSPREY
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH	PPM	16	STATIONS		OSPREY TISSUE AND EGGS

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16	STATIONS		OSPREY TISSUE AND EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16	STATIONS		OSPREY TISSUE AND EGGS

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PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, COASTAL, U.S., CONNECTICUT AND MARYLAND

ABSTRACT:

OSPREY TISSUES, EGGS AND FISH FROM MARYLAND AND CONNECTICUT WERE ANALYZED FOR ORGANOCHLORINE PESTICIDES AND PCB.

DATA AVAILABILITY:

COST OF REPRODUCTION

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
100 PAGES

FUNDING:

US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:

SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT, 1972. P. 60.

CONTACT:

R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20810

GRID LOCATOR (LAT):

730786 740702

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	2	STATIONS		LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	2	STATIONS		
SPECIES DETERMINATION OF BIRDS	AIR	KEY		2	STATIONS		OSPREY AND OSPREY EGGS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2	STATIONS		OSPREY, FISH TISSUES, AND OSPREY EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2	STATIONS		OSPREY, FISH TISSUES, AND OSPREY EGGS
DDT IN BIO	WATER	GAS CHROMATOGRAPH	PPM	2	STATIONS		OSPREY, FISH

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		Y					TISSUES, AND OSPREY EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2	STATIONS		OSPREY, FISH TISSUES, AND OSPREY EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2	STATIONS		OSPREY, FISH TISSUES, AND OSPREY EGGS
MORPHOMETRIC MEASUREMENT OF BIRDS	AIR	VISUAL	MICRONS	2	STATIONS		EGG SHELL THICKNESS

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PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, COASTAL, U.S., NEW JERSEY TO SOUTH CAROLINA

ABSTRACT:

THE EGGS OF CLAPPER RAIL, WILLET, AND AMERICAN OYSTER CATCHER WERE COLLECTED FROM NEW JERSEY TO SOUTH CAROLINA AND MEASURED FOR THICKNESS AS WELL AS ORGANOCHLORINES AND PCB. 3500 EGGS WERE MEASURED AND 30 EGGS ANALYZED FOR ORGANOCHLORINE PESTICIDES AND PCB.

DATA AVAILABILITY:

COST OF REPRODUCTION

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
4000 PAGES

FUNDING:

US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:

SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT. 1972. P. 78-79.

CONTACT:

R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20810

GRID LOCATOR (LAT):

730820 730829 730738 730739 730746 730747 730748 730749 730755 730756 730765 730766 730775 730776 730785 730786 730795 730796
740705 740706

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	15 STATIONS			LATITUDE AND LONGITUDE
TIME SPECIES DETERMINATION OF BIRDS	EARTH AIR	STATION TIME KEY	YMD	15 STATIONS 3500 OBS			3500 RAIL AND SHOREBIRD EGGS WERE MEASURED FOR THICKNESS
MORPHOMETRIC MEASUREMENT OF BIRDS	AIR	VISUAL	MICRONS	3500 OBS			3500 RAIL AND SHOREBIRD EGGS WERE MEASURED

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	30	OBS			FOR THICKNESS 30 RAIL AND SHOREBIRD EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS

RECEIVED: FEBRUARY 07, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA, CALICO CREEK

ABSTRACT:

SURVEY OF THE EFFECTS OF SEWAGE EFFLUENTS AND HEAVY METALS ON AGRICULTURAL AND MARINE ECOSYSTEMS OF NORTH CAROLINA
(INTENSIVE SURVEY OF 15 STATIONS ON CALICO CREEK AND STATIONS IN 20 OTHER COASTAL CITIES.)

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS; DATA SHEETS
200 PAGES

FUNDING:

UNIVERSITY OF NORTH CAROLINA; NORTH CAROLINA OFFICE OF WATER RESOURCES RESEARCH PROGRAM

INVENTORY:

PUBLICATIONS:

CONTACT:

RICHARD BARBER 919 728 2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT NORTH CAROLINA USA 28516

GRID LOCATOR (LAT):

730748 730747 730746 730756 730755 730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	35 STATIONS			LATITUDE & LONGITUDE
TIME	EARTH	STATION TIME	YMD	35 STATIONS	BIANNUAL		
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
SELENIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
SELENIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAEUS
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAEUS
SELENIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAEUS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAEUS
COPPER IN BIO	WATER	ATOMIC ABSORPTION	PPB	35	STATIONS	BIANNUAL		OYSTERS,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		SPECTROMETRY					LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENE AUS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL	OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENE AUS
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL	OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENE AUS
CHROMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL	OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENE AUS
NICKEL IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL	OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENE AUS
PRECIPITATION AMOUNT	AIR	RAIN GAGE	INCHES	35	STATIONS	BIANNUAL	
WATER TRANSPORT	WATER	FLOW METER		35	STATIONS	BIANNUAL	
PARTICULATE MATTER	WATER	GRAVIMETRY		35	STATIONS	BIANNUAL	

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:

HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES

DATA AVAILABILITY:

NO RESTRICTIONS

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS
900 PAGES

FUNDING:

NSFI AND DUKE U.

INVENTORY:

PUBLICATIONS:

CONTACT:

RICHARD BARBER 919 728 2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT NORTH CAROLINA USA 28516

GRID LOCATOR (LAT):

730766 730765 730755 730756 730746 730747 730748

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1 STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	1 STATIONS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		1 STATIONS			50 BLUEFISH, 100 SPINY DOGFISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES 50 BLUEFISH,
LENGTH OF	WATER	STANDARD LENGTH	MM	1 STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC FISH							100 SPINY DOG FISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS	1	STATIONS		50 BLUEFISH, 100 SPINY DOG FISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION PPT SPECTROMETRY		1	STATIONS		AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE
MANGANESE IN BIO MATERIAL	WATER	ATOMIC ABSORPTION PPT SPECTROMETRY		1	STATIONS		AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION PPT SPECTROMETRY		1	STATIONS		AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE

VGB

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY, MURDERKILL AND ST. JONES RIVERS

ABSTRACT:

THE PRINCIPAL PURPOSE OF THIS STUDY TO ESTABLISH A TRACE METAL BASELINE FOR THE MURDERKILL RIVER PRIOR TO COMMENCEMENT OF OPERATION OF THE KENT COUNTY REGIONAL SEWAGE TREATMENT PLANT. BASELINES ARE ESTABLISHED FOR IRON, MAGNESIUM, ZINC, CHROMIUM, COPPER, LEAD, CADMIUM, MERCURY, NICKEL AND STRONTIUM. IN ADDITION TO THE ESTABLISHMENT OF THESE BASELINES, THE SECOND PURPOSE OF THIS STUDY IS TO CONTRAST THE MURDERKILL RIVER BASELINE WITH A SIMILARLY ESTABLISHED BASELINE FOR THE ST. JONES RIVER, WHICH HAS BEEN THE RECIPIENT OF DOMESTIC SEWAGE AND INDUSTRIAL AND OTHER ORGANIC WASTES FOR A NUMBER OF YEARS. BY COMPARING THE RESULTS OF THESE TWO RIVER SYSTEM'S BASELINES, IT IS HOPED THAT SOME PROJECTION MAY BE MADE OF THOSE METALS. SAMPLES WERE TAKEN AT 56 STATIONS, APPROXIMATELY EVERY HALF-TO THREE-QUARTERS OF A MILE FROM THE MOUTH OF THE RIVERS TO ABOVE THE LIMIT OF SALT INTRUSION.

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS

THE DATA OCCURS IN A TECHNICAL REPORT WHICH IS 31 PAGES IN LENGTH. THERE ARE 3 TABLES AND 10 GRAPHS IN THE REPORT.

FUNDING:

NOAA, OFFICE OF SEA GRANT, NO. 2-35223

INVENTORY:

PUBLICATIONS:

BOPP, F., III, LEPPLE, F. K., AND BIGGS, R. B., 1972, TRACE METAL BASELINE STUDIES ON THE MURDERKILL AND ST. JONES RIVERS, DELAWARE COASTAL PLAIN, COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE, DEL-SG-10-72, 31 PGS.

CONTACT:

DR. ROBERT B. BIGGS 302 738 2842
DEPARTMENT OF GEOLOGY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):

730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	56 STATIONS			
TIME	EARTH	STATION TIME		56 STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56 STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY

ABSTRACT:

THE PRIMARY OBJECTIVE WAS TO TYPIFY THE TRACE METAL GEOCHEMICAL ASPECTS OF THE SEDIMENTARY ENVIRONMENTS WHICH SUPPORT OYSTERS IN DELAWARE BAY. THESE RESULTS PROVIDE BASELINE INFORMATION TO BE USED IN THE OYSTER EARLY-WARNING POLLUTION MONITORING SYSTEM BEING DEVELOPED BY THE STATE OF DELAWARE AND THE UNIVERSITY OF DELAWARE. IN ADDITION, A FURTHER OBJECTIVE IS TO CHARACTERIZE THE TRACE METALS DETERMINED WITH RESPECT TO THEIR GENERALIZED SOURCE, AND THE PRIMARY FACTORS CONTROLLING THEIR DISTRIBUTION. SAMPLES WERE COLLECTED FROM 118 DISCRETE LOCATIONS IN DELAWARE BAY. BASELINES ARE ESTABLISHED FOR IRON, MAGNESIUM, ZINC, CHROMIUM, COPPER, LEAD, CADMIUM, MERCURY, NICKEL, AND STRONTIUM.

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS

THE DATA OCCURS IN A TECHNICAL REPORT 47 PAGES IN LENGTH.

FUNDING:

NOAA, OFFICE OF SEA GRANT

INVENTORY:

PUBLICATIONS:

BOPP, F., III, 1972, TRACE METAL ENVIRONMENTS NEAR SHELL BANKS IN DELAWARE BAY, COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE. DEL-SG-9-72, 47 PGS.

CONTACT:

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NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):

730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	118	STATIONS			
TIME	EARTH	STATION TIME		118	STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND

199

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		CLAY FRACTION HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS		HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

PROJECTS:

COOPERATIVE BLUE CRAB STUDY-SOUTH ATLANTIC STATES

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., NORTH CAROLINA TO FLORIDA. COASTAL

ABSTRACT:

A STUDY TO DETERMINE CAUSES OF BLUE CRAB MORTALITIES IN THE SOUTH ATLANTIC STATES. HYDROLOGICAL CHARACTERISTICS, DISEASES, PARASITES, AND RESIDUAL PESTICIDES ARE FACTORS CONSIDERED.

DATA AVAILABILITY:

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
ONE 32 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

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GRID LOCATOR (LAT):

720759 720769 720779 720789 720850 720860 720870 720880 720890 720891 730729 730737 730738 730739 730745 730746 730747 730755
730765 730800 730801 730810 730811 730820

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	20	STATIONS			
TIME	EARTH	STATION TIME	YMD	20	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	20	OBS	MONTHLY	BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	20	OBS	MONTHLY	BOTTOM	WINKLER
PH	WATER	PH METER		20	OBS	MONTHLY		
SALINITY	WATER	INDEX OF REFRACTION	PARTS PER THOUSAND	20	OBS	MONTHLY		
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	CENTIMETERS	20	OBS	MONTHLY		
CHLORINATED HYDROCARBONS	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	20	OBS	MONTHLY		ALDRIN, LINDANE.

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
IN BIO MATERIAL							DIELDRIN, DDT, DDE, DDD, ENDRIN, HEPTACHLOR EPOXIDE, METHOXYCHLOR, MIREX, TOXAPHENE, CHLORDANE WERE ANALYZED IN TISSUES OF BLUE CRABS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		20	OBS	MONTHLY	BLUE CRABS CAPTURED FOR PESTICIDE, DISEASE, PARASITE, AND LABORATORY ANALYSIS
SPECIES DETERMINATION OF PARASITES	WATER	KEY		20	OBS	MONTHLY	FOUND ON BLUE CRABS
COUNT OF PARASITES	WATER	VISUAL		20	OBS	MONTHLY	FOUND ON BLUE CRABS

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:
MONITORING OF COMMERCIAL AND GAME FISH FOR MERCURY, LEAD, CADMIUM AND ARSENIC.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
120 PAGES

FUNDING:
NC DOA

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
730766 730756 730746 730747 730737 730738 730755

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	10	STATIONS			
TIME	EARTH	SAMPLING TIME	YMD	10	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
ARSENIC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			

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RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, DELAWARE, NORTH CAROLINA

ABSTRACT:

THIS STUDY INCLUDES DATA TAKEN AT 14 OCEANOGRAPHIC STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY SE FROM DELAWARE BAY, CAPE HENLOPEN TO THE SARGASSO SEA JUST BEYOND THE GULF STREAM AND THEN NW FROM THE SARGASSO SEA TO A POINT CLOSE TO THE MOUTH OF THE CHESAPEAKE BAY AND INTO BEAUFORT NORTH CAROLINA. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, NITRATE, NITRITE, PHOSPHATE, SILICATE, CHLOROPHYLL A, PHAEOPHYTIN, CS-137, RADIUM-228, RADIUM-226, THORIUM-228, LEAD-210, POLONIUM-210, PARTICULATE AND DISSOLVED MERCURY AS WELL AS REGULAR WIND, WAVE AND METEOROLOGICAL OBSERVATIONS. (CRUISE BEGAN AT LEWES DELAWARE PROCEEDED OUT TO THE SARGASSO SEA TERMINATING AT BEAUFORT NORTH CAROLINA)

DATA AVAILABILITY:

AT COST OF REPRODUCTION

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS
16 PAGES

FUNDING:

NATIONAL SCIENCE FOUNDATION NO. GA-28752

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):

73078530 73076543

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	14 STATIONS		SURFACE TO 980M	
TIME	EARTH	SAMPLING TIME	YMDHM	14 OBS	1 OBS/STATION/DEPTH		
TEMPERATURE	WATER	VARIOUS	DEG C	1500 OBS	2-3 OBS/STATION/DEPTH	SURFACE TO 980M	CONTINUOUS SURFACE TEMPERATURE TAKEN BY THERMISTOR AND

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
								BUCKET AT EACH STATION 2 OR 3 DIFFERENT METHODS EMPLOYED, SURFACE TEMPERATURE BY BUCKET, STD, XBT DEPTH BY NANSEN/NISKIN REVERSING THERMOMETER, STD, BT
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500	OBS	2 OBS/DEPTH/STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 980M	SALINITY WAS CROSSED CHECK ON STATION STD AGAINST INDUCTIVE SALINOMETER WHILE UNDERWAY ONLY INDUCTIVE SALINOMETER USED
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	CONTINUOUS CHLOROPHYLL ALSO WAS TAKEN TO CORRELATE WITH STATION DATA
PHAEOPHYTIN A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84	OBS	1 OBS/DEPTH/STATION	SURFACE TO 100 M	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	SUSPENDED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	DISSOLVED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	85	OBS	1 OBS/DEPTH/STATION	10-980 M	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9	OBS	1 OBS/DEPTH/ STATION	10-980 M	
RADIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9	OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9	OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
LEAD-210	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9	OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
THORIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9	OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
WIND SPEED	AIR	ANEMOMETER	NAUTICAL MILES PER HOUR	250	OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250	OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WAVE AMPLITUDE	WATER	VISUAL	FEET	250	OBS	1 OBS/HALF HOUR	SURFACE	DATA TAKEN FROM SHIP MAST
WAVE PERIOD	WATER	VISUAL	WAVE PER MINUTE	250	OBS	1 OBS/HALF HOUR	SURFACE	MEASURED AS WAVES ACROSS BOW PER MINUTE

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PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, U.S., DELAWARE BAY, MISPELLION RIVER, COASTAL

ABSTRACT:

OYSTERS, CRASSOSTREA VIRGINICA WERE EXPOSED FOR 3 DAYS TO 203HGCL2 OR CH3 203HGCL ADDED DIRECTLY TO ARTIFICIAL SEA WATER OR ADDED PRECONCENTRATED ON THE MARINE DIATOM, PHAEODACTYLUM TRICORNUTUM. THE CONCENTRATION OF 203HG IN FIVE TISSUES WAS MEASURED FOR 45 DAYS AFTER MERCURY WAS REMOVED FROM THE AMBIENT WATER. TO STUDY THE KINETICS OF MERCURY UPTAKE IN OYSTERS, ADULT CRASSOTREA VIRGINICA (GMELIN) WERE HELD IN SEA WATER CONTAINING EITHER 10PPB OR 100PPB MERCURY FOR 45 DAYS. MERCURY CONCENTRATIONS IN TISSUES WERE DETERMINED BY ANALYSIS OF INDIVIDUALLY HOMOGENIZED OYSTER MEATS USING WET DIGESTION AND FLAMELESS ABSORPTION SPECTROPHOTOMETRY.

DATA AVAILABILITY:

LIBRARY LOAN

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
ONE 147 PAGE THESIS

FUNDING:

INVENTORY:

PUBLICATIONS:

DATA INCLUDED IN UNPUBL. PHD. DISSERTATION, 1974. BY PATRICIA ANN CUNNINGHAM

CONTACT:

LIBRARIAN 302 645 667
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):

7307855270

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MIN	1	STATIONS			
TIME	EARTH	STATION TIME	YM	70	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	350	OBS			MERCURY MEASURED IN TISSUES OF OYSTERS AND IN HOMOGENIZED OYSTERS AND FROM THIS DATA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
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THE UPTAKE,
DISTRIBUTION
IN TISSUES AND
DEPURATION OF
MERCURY IN
CRASSOSTREA
VIRGINICA WAS
CALCULATED

499

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., DELAWARE, INDIAN RIVER AND REHOBOTH BAYS AND LEIPSIC, SIMONS, MISPELLION AND BROADKILL RIVERS AND BOWER'S BEACH

ABSTRACT:

DATA ON THE LEVELS OF DDD, DDE, DDT AND DIELDRIN IN THE GENERAL TISSUES OF THREE SHELLFISH, CRASSOSTREA VIRGINICA, MODIOLUS DEMISSUS AND MERCENARIA MERCENARIA, COLLECTED FROM OCTOBER 1966 THROUGH AUGUST 1969 FROM VARIOUS COASTAL WATERS ADJACENT TO THE STATE OF DELAWARE ARE PRESENTED IN REPORT FORM.
(ANALYSES CONDUCTED AT BUREAU OF COMMERCIAL FISHERIES BIOLOGICAL LABORATORY-GULF BREEZE, FLORIDA)

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
52 PAGES

FUNDING:

UNITED STATES DEPARTMENT OF INTERIOR FISH AND WILDLIFE SURFACE, BUREAU OF COMMERCIAL FISHERIES

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):

7307853097 7307853150 7307854015 7307854075 7307854184 7307855168 7307950233 7307951234 7307951244

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
..... POSITION	EARTH	FIXED POINT	MAP LOCATION	9	STATIONS	3 STATIONS FOR CRASSOSTREA VIRGINIA, 3 STATIONS FOR MERCENARIA, 3 STATIONS FOR MODIOLUS DEMISSUS
TIME	EARTH	STATION TIME	YMD	282	OBS	1 OBS PER STATION PER MONTH	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, NORTH CAROLINA, DELAWARE

ABSTRACT:

THIS CRUISE REPORT INCLUDES OCEANOGRAPHIC DATA TAKEN AT 40 STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY NE FROM BEAUFORT, NORTH CAROLINA ACROSS THE GULF STREAM, NW TO THE MOUTH OF THE CHESEPEAKE BAY, NE OUT TO THE GULF STREAM, AND NW INTO CAPE HENLOPEN, AT THE MOUTH OF DELAWARE BAY. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, DISSOLVED OXYGEN, DISSOLVED ORGANIC CARBON, PARTICULATE ORGANIC CARBON, NITRATE, NITRITE, TOTAL REACTIVE PHOSPHATE, TOTAL SILICATE, CHLOROPHYLL A, CARBON-14, PHAEOPHYTON PIGMENT, PARTICULATE CHITIN, CHITINOLYTIC BACTERIA, AND PARTICULATE LIGHT SCATTERING INFORMATION. IN ADDITION FOR WATER MASS TRACING, SURFACE AND PROFILE CS-137 AND RADIUM-228 USED BULK WATER SAMPLE TECHNIQUES AND SPECIAL CAST SAMPLER TECHNIQUE(CS-137). REGULAR WIND, WAVE, AND METEOROLOGICAL OBSERVATION WERE ALSO TAKEN. (NSF NORTH ATLANTIC RESIDENCE TIME BY CS-137 TRACER; CRUISE BEGAN AT BEAUFORT, NORTH CAROLINA PROCEEDED OUT ACROSS THE GULF STREAM TERMINATING BACK AT LEWES, DELAWARE)

DATA AVAILABILITY:

AT COST OF REPRODUCTION

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

DATA SHEETS
50 PAGES

FUNDING:

NSF NO. GA-28752, UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):

730765 730766 730767 730768 730769 730770 730771 730780 730781 730782 730783 730784 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	40 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	40 OBS	1 OBS/DEPTH/ STATION		
TEMPERATURE	WATER	XBT	DEG C	900 OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-	SURFACE TO 980M	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	900	OBS	HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS 2 OBS/STATION/DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT EXTINCTION	WATER	TRANSMISSOMETER LOWERING	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	EXTINCTION COEFFICIENTS WERE MEASURED AT EACH OF 28 STATIONS PLUS 2 VERTICAL DEPTH PROFILE WERE TAKEN AT SPECIES STATIONS
LIGHT SCATTERING COEFFICIENT	WATER	SMALL ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERING COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633 U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS
WIND SPEED	AIR	ANEMOMETER	MILES PER HOUR	250	OBS	1 OBS/HALF-HOUR		WIND SPEED MEASURED AT SHIPS MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250	OBS	1 OBS/HALF-HOUR		
WAVE AMPLITUDE	WATER	VISUAL	FEET	250	OBS	1 OBS/HALF-HOUR	SEA SURFACE	
WAVE DIRECTION	WATER	VISUAL	COMPASS DIRECTION	250	OBS	1 OBS/HALF-HOUR	SEA SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS	201	OBS	1 OBS/STATION/	SURFACE TO	NUTRIENT

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
								EACH PARTICULAR WATER SAMPLE BOTTLE DEPTH
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 100 METERS	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 100 METERS	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 100 METERS	
TOTAL PHAEOPHYTIN	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 100 METERS	
CHITIN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM PER LITER	44	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	PARTICULATE CHITIN DATA TAKEN AT EACH OF 11 STATIONS AT THE VARIOUS BOTTLE DEPTHS PLUS SURFACE SAMPLE
COUNT OF MICROBIOTA	WATER	MICROSCOPE	COLONIES	34	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES
ORGANIC CARBON	DISSOLVED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	
ORGANIC CARBON	SUSPENDED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	
DISSOLVED OXYGEN	WATER	TITRATION	MILLILITERS PER LITER	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	
GAS CARBON-14	WATER	MASS SPECTROMETRY	MILLIGRAM PER METER CUBED PER DAY	201	OBS	1 OBS/STATION/DEPTH	SURFACE TO 600 METERS	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	41	OBS	1 OBS/STATION/DEPTH	0-980 METERS	17 CESIUM-137 SAMPLES AT ONE STATION WITH SPECIAL CAST TECHNIQUE WHILE OTHERS TAKEN FROM BULK WATER SAMPLE AT 0 AND 50 METERS AT 2 OBS/STATION
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	24	OBS	2 OBS/STATION	0 TO 50 METERS	RADIUM-226 DATA TAKEN 2 OBS/STATION AT 0 AND 50 METERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	MECHANICAL BT	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
SALINITY	WATER	STD	PARTS PER THOUSAND	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF- HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT SCATTERING COEFFICIENT	WATER	RIGHT ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERIN G COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES	34	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES

1961

RECEIVED: AUGUST 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:

THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBON DIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:
ALSO IN ALL USGS OFFICIAL REPOSITORY LIBRARIESPLATFORM TYPES:
FIXED STATIONARCHIVE MEDIA:
REPORTS
300 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
P. DEMARTE 717 782 4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG PENNSYLVANIA USA 17108GRID LOCATOR (LAT):
730794 730795 730796 730797 730798 730799 740704 740705 740706 740707 740708 740709 740714 740715 740716 740717 740718 740719
740724 740725 740726 740727 740728 740729

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT		250	STATIONS		MAP, VERBAL DESCRIPTION AND LATITUDE AND LONGITUDE GIVEN
TEMPERATURE	WATER	UNKNOWN	DEG C	250	STATIONS		
DISSOLVED	WATER	UNKNOWN	MILLIGRAMS PER	250	STATIONS		

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NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS			LITER				
ELECTRICAL CONDUCTIVITY	WATER	UNKNOWN	MICROMHOS	250	STATIONS		
BIOCHEMICAL OXYGEN DEMAND	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
CALCIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
MAGNESIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
SODIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
POTASSIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
FLUORIDE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
NITRATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
DISSOLVED CARBON DIOXIDE GAS	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
BICARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
TOTAL ALKALINITY	WATER	UNKNOWN	MILLIGRAMS CAC03 PER LITER	200	STATIONS		
SULFATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
CHLORIDE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
ORTHOPHOSPHATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS		
HARDNESS	WATER	UNKNOWN	MILLIGRAMS CA AND MG PER LITER	200	STATIONS		ALSO NONCARBONATE HARDNESS
COLOR	WATER	PLATINUM-COBALT		200	STATIONS		
PH	WATER	UNKNOWN	PH UNITS	200	STATIONS		
SILICATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS		
IRON	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50	STATIONS		
MANGANESE	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50	STATIONS		
CARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS		
COUNT OF MICROBIOTA	WATER	UNKNOWN	NUMBER PER 100 ML	50	STATIONS		IMMEDIATE COLIFORM, FECAL COLIFORM, AND STREPTOCOCCI
ORGANIC CARBON	WATER	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS		
LIGHT ATTENUATION	WATER	UNKNOWN	JTU	10	STATIONS		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SURFACTANTS	WATER	UNKNOWN		10	STATIONS		METHYLENE BLUE ACTIVE SUBSTANCE
ALUMINUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	10	STATIONS		
ARSENIC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
CADMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
CHROMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
COPPER	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
LEAD	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
MERCURY	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
NICKEL	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
ZINC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
AMMONIA	WATER	UNKNOWN	MILLIGRAMS PER LITER	10	STATIONS		
CHLOROPHYLL A	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
TIME	EARTH	SAMPLING TIME	YMDHML	250	STATIONS		
ALDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
CHLORDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
DDT	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
DDD	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
DDE	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
DIELDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
ENDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
HEPTACHLOR	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
LINDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
2,4,5-T	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
2,4-D	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		
TOXAPHENE	WATER	UNKNOWN	MICROGRAMS PER LITER	10	STATIONS		

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:

THE FIRST SECTION OF THIS TWO-PART REPORT REVIEWS BASIC PROPERTIES OF MERCURY AND ITS COMPOUNDS AS RELATED TO THEIR EFFECT ON VARIOUS FACETS OF THE ENVIRONMENT. AMONG THE TOPICS DISCUSSED ARE THE CHEMICAL FORMS AND HAZARDS OF MERCURY, INCIDENTS OF MERCURY CONTAMINATION, GOVERNMENTAL STANDARDS AND TOLERANCE LIMITS, LEVELS OF MERCURY IN THE ATMOSPHERE, BIOSPHERE, LITHOSPHERE AND HYDROSPHERE, AND THE FLUX THROUGH EACH SEGMENT. THE REALITY OF THE MERCURY PROBLEM GLOBALLY AND LOCALLY IS EVALUATED. A COMPREHENSIVE REVIEW OF THE ACCEPTED METHODS OF ANALYSES FOR MERCURY AND ITS COMPOUNDS IS ALSO PRESENTED. THE SECOND SECTION REPORTS ON RECENT STUDIES OF MERCURY LEVELS IN THE DELAWARE BAY REGION AND COMPARES THE CONCENTRATIONS FOUND IN THE WATERS AND SEDIMENTS TO VALUES FROM OTHER AREAS.
(DETAILED DELAWARE BAY MERCURY DATA INCLUDED AS PART OF A MORE GENERAL SEA GRANT REPORT)

DATA AVAILABILITY:
FOR SMALL FEE UNIVERSITY OF DELAWARE COLLEGE OF MARINE STUDIES

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
75 PAGES

FUNDING:
SEA GRANT NO. 2-35223

INVENTORY:

PUBLICATIONS:
LEPPLE, FREDERICK K. 1973. MERCURY IN THE ENVIRONMENT. SEA GRANT REPORT DEL-SG-8-73. 75 P.

CONTACT:
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COLLEGE OF MARINE STUDIES
ROBINSON HALL, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078433 73079533

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	41	STATIONS	SURFACE TO BOTTOM	SURFACE WATER SAMPLES DEPTH PROFILES AND BOTTOM SEDIMENTS WERE TAKEN AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TIME	EARTH	SAMPLING TIME	YMDHM	41	OBS			ANALYZED
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	41	OBS		SURFACE	ANALYSIS WAS BY FLAMELESS ATOMIC ABSORPTION
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	7	OBS		1 M ABOVE BOTTOM	PROFILE DEPTHS VARY FROM 01M, 6M, 12M, 14M, 47M
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	3	OBS		BOTTOM	
LIGHT EXTINCTION	WATER	CALCULATED	METERS	41	OBS	1 OBS/STATION		SECCHI DEPTH MEASURED TO RELATE TO PARTICULATE LOADING

PROJECTS:

GENERAL GEOGRAPHIC AREA:
 NORTH AMERICA, U.S., DELAWARE TIDAL MARSH REGION

ABSTRACT:
 DATA FROM THE EXAMINATION OF FREE FATTY ACIDS AND ALIPHATIC HYDROCARBONS IN A 4-METER CORE FROM THE GREAT SALT MARSH NEAR LEWES, DELAWARE AND IN ESTUARINE, TIDAL CREEK AND SURFACE MARSH SEDIMENTS ARE PRESENTED AND DISCUSSED IN REPORT FORM. THE SEDIMENT CORES ARE DIVIDED FOR ANALYSIS INTO 20 CM INTERVALS.

DATA AVAILABILITY:

PLATFORM TYPES:
 FIXED STATION

ARCHIVE MEDIA:
 REPORTS
 97 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
 SWETLAND, P.J., 1975. LIPID GEOCHEMISTRY OF DELAWARE SALT MARSH ENVIRONMENTS. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 97 P.

CONTACT:
 PAUL J. SWETLAND 302 645 2869
 GEOLOGY DEPARTMENT, UNIVERSITY OF DELAWARE
 NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	8 STATIONS			3 DELAWARE BAY STATIONS, 2 BROADKILL RIVER STATIONS, 2 MARSH SURFACE STATIONS, 1 MARSH SEDIMENT CORE
SAND FRACTION	EARTH SEDIMENT	STATION TIME SETTLING/WEIGHING	YMD PERCENT BY WEIGHT	8 OBS	16 OBS		DELAWARE BAY SAMPLES NOT ANALYZED
CLAY FRACTION	SEDIMENT	SETTLING/	PERCENT BY	16	OBS		DELAWARE BAY

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		WEIGHING	WEIGHT					
SILT FRACTION	SEDIMENT	SETTLING/ WEIGHING	PERCENT BY WEIGHT	16	OBS			SAMPLES NOT ANALYZED DELAWARE BAY SAMPLES NOT ANALYZED
ALIPHATIC HYDROCARBONS	SEDIMENT	COLUMN CHROMATOGR APHY	MICROGRAMS PER GM	27	OBS			MARSH CORE SAMPLE NOT INCLUDED
FATTY ACIDS	SEDIMENT	COLUMN CHROMATOGR APHY	MICROGRAMS PER GM	20	OBS			MARSH CORE SAMPLE NOT INCLUDED
ALIPHATIC HYDROCARBONS	SEDIMENT	GAS CHROMATOGRAPH Y	PERCENT BY VOLUME OF CARBON NUMBER SPECIES PER TOTAL SPECIES	270	OBS			
FATTY ACIDS	SEDIMENT	GAS CHROMATOGRAPH Y	PERCENT BY VOLUME OF CARBON NUMBER SPECIES PER TOTAL SPECIES	176	OBS			
SEDIMENT STRUCTURE	SEDIMENT	VISUAL	DESCRIPTIVE WORD RANGES	1	OBS			

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON, NEW JERSEY

ABSTRACT:

SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA, TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTHO-AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, METHYLENE BLUE ACTIVE SUBSTANCES, CYANIDE, TOTAL COLIFORMS, FECAL COLIFORMS AND STREPTOCOCCI, ZINC, CALCIUM, MAGNESIUM, IRON, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM.
(DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:

WITH PERMISSION OF WATER COMMISSIONER, OR ON IBM CARDS AT COST OF REPRODUCTION

PLATFORM TYPES:

SHIP

ARCHIVE MEDIA:

REPORTS; DATA SHEETS
500 PAGE REPORT OR 9 PAGE SUMMARY

FUNDING:

PHILADELPHIA WATER DEPT

INVENTORY:

PUBLICATIONS:

CONTACT:

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GRID LOCATOR (LAT):

7307954285 7307950058 7307950078 7307950084 7307950085 7307950086 7307950093 7307951005 7307950120 7307950200 7407040478
7407040485 7407040528 7407040523 7407040544 7407040546 7407040551 7407001415 7407001436 7407050002 7407050003 7407050011

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	23 STATIONS	1 STATION/WK		ACCURACY WITHIN 200 FT
TIME	EARTH	STATION TIME		23 STATIONS	1 STATION/WK		
TIDAL PHASE	WATER	TABLES		23 STATIONS	1 STATION/WK		
TEMPERATURE	WATER	THERMISTOR	DEG C	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	PH METER	STANDARD PH UNITS	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
TOTAL ALKALINITY	WATER	TITRATION	MG/L AS CaCO3	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
LIGHT SCATTERING COEFFICIENT	WATER	MULTISPECTRAL SCANNER	JACKSON TURBIDITY UNITS	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHOS PER CM AT 25 DEG C	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
SURFACTANTS	WATER	COLORIMETRY	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
CHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
BIOCHEMICAL OXYGEN DEMAND	WATER	SPECIFIC ION ELECTRODE	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
COUNT OF MICROBIOTA	WATER	FILTRATION	COLONIES PER 100 MG	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	REPORTED AS TOTAL COLIFORMS FECAL COLIFORMS, AND FECAL STREPTOCOCCI
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
ALUMINUM	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
CHLORIDE	WATER	AUTOANALYZER	MG/L	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
UNREACTIVE PHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	
AMMONIA	WATER	SPECIFIC ION ELECTRODE	MG/L AS N	23	STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW	

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRITE	WATER	AUTOANALYZER	MG/L AS N	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
PHENOLS	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ARSENIC	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
BERYLLIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CALCIUM	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CADMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
COPPER	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CHROMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
IRON	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
LEAD	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MAGNESIUM	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MANGANESE	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
NICKEL	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ZINC	WATER	SPECTROPHOTOMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CYANIDE	WATER	COLORIMETRY	MG/L	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	

RECEIVED: JULY 26, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., MARYLAND, ANNE ARUNDEL COUNTY, BOOKIN NECK AREA

ABSTRACT:

BIOLOGICAL, PHYSICAL, AND CHEMICAL PARAMETERS WERE COLLECTED FROM SEPTEMBER THROUGH DECEMBER, 1973 TO PRODUCE A DATA BASELINE FOR THE QUEEN ANNE'S HARBOR, BROOKIN NECK AREA, MARYLAND. PARAMETERS INCLUDE SPECIES COUNT OF PLANTS, ANIMALS, AND FISH, NUTRIENTS, TEMPERATURE, SALINITY, METALS, TURBIDITY, AND DISSOLVED SOLIDS AND GASES.
(PROJECT CARRIED OUT BY JACK MCCORMICK AND ASSOCIATES FOR STATE OF MARYLAND)

DATA AVAILABILITY:

AVAILABLE UPON REQUEST FROM JACK MCCORMICK AND ASSOCIATES OFFICE IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
85 PAGES

FUNDING:

STATE OF MARYLAND, DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:

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JACK MCCORMICK AND ASSOCIATES
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BERWYN PENNSYLVANIA USA 19312

GRID LOCATOR (LAT):

7307963100

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	13	STATIONS	1 SURVEY	
TIME	EARTH	STATION TIME	YMD	13	STATIONS	1 SURVEY	
TAXONOMIC LIST OF LAND PLANTS	LAND	KEY	QUALITATIVE	1	STATIONS	1 SURVEY	
COUNT OF BIRDS	AIR	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY	
SPECIES DETERMINATION OF BIRDS	AIR	KEY	QUALITATIVE	6	STATIONS	1 SURVEY	
COUNT OF AMPHIBIANS	WATER	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY	
SPECIES	WATER	KEY	QUALITATIVE	6	STATIONS	1 SURVEY	

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DETERMINATION OF AMPHIBIANS SPECIES	LAND	KEY	QUALITATIVE	6	STATIONS	1 SURVEY	
DETERMINATION OF MAMMALS							
COUNT OF MAMMALS	LAND	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY	
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	13	STATIONS	1 SURVEY	
SALINITY	WATER	CONDUCTIVITY	PARTS/THOUSAND	13	STATIONS	1 SURVEY	
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	MHOS/CENTIMETER	13	STATIONS	1 SURVEY	
PH	WATER	PH METER	PH UNITS	13	STATIONS	1 SURVEY	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
ORGANIC CARBON	WATER	AUTOANALYZER	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
KJELDAHL NITROGEN	WATER	SPECTROPHOTOMETRY	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
SULFATE	WATER	SPECTROPHOTOMETRY	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
SULFIDE	WATER	TITRATION	MILLICRAM/LITER	13	STATIONS	1 SURVEY	
LIGHT ATTENUATION	WATER	COLORIMETRY	FTU	13	STATIONS	1 SURVEY	
COLOR	WATER	COLORIMETRY	PLATINUM-COBALT UNITS	39	OBS	3 OBS/STATION	
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
KJELDAHL NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
SULFIDE	SEDIMENT	TITRATION	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
PHOSPHATE	SEDIMENT	SPECTROPHOTOMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
OILS	SEDIMENT	EXTRACTION/WEIGHT	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLICRAM/LITER	39	OBS	3 OBS/STATION	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF PHYTOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER/100 MILLILITER	39	OBS	3 OBS/STATION		TOTAL BACTERIA; FECAL BACTERIA; TOTAL COLIFORM; TOTAL STREPTOCOCCI
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELMARVA PENINSULA, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA COLLECTED ON THE PLANKTONIC AND BENTHIC ORGANISMS FOUND IN THE CHESAPEAKE AND DELAWARE CANAL AND ADJACENT WATERS DURING THE 1974 ECOLOGICAL STUDY OF THE AQUATIC ENVIRONMENT IN THE VICINITY OF THE PROPOSED SUMMIT POWER STATION ARE PRESENTED IN REPORT FORM. SPECIES DETERMINATIONS AND DISTRIBUTIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ORGANISMS ARE GIVEN IN ORDER TO OBTAIN INFORMATION ABOUT DAILY AND SEASONAL CHANGES IN POPULATION STRUCTURE. VITALITY STUDIES ON THE ZOOPLANKTON ARE INCLUDED. THE RESULTS OF A COMPREHENSIVE ANALYSIS OF THE PHYSICAL/CHEMICAL ENVIRONMENT IN THE CANAL WATERS DURING THE BIOLOGICAL SAMPLING PROGRAM ARE ALSO AVAILABLE. MEASURED PARAMETERS INCLUDE COLIFORM COUNTS, NUTRIENTS, PIGMENTS, HEAVY METALS, OIL AND GREASE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN GAS, PH, TURBIDITY AND TRANSPARENCY, HARDNESS, TOTAL ALKALINITY, CARBONATE ALKALINITY, SULFATE, TOTAL DISSOLVED SOLIDS, SUSPENDED SOLIDS, TOTAL PHOSPHORUS, DISSOLVED PHOSPHORUS, NITRATE-NITROGEN, NITRITE-NITROGEN, AMMONIA, ORGANIC NITROGEN, MAGNESIUM, CALCIUM AND TOTAL SILICA.

DATA AVAILABILITY:
UPON PERMISSION FROM DELMARVA POWER AND LIGHT COMPANY

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
REPORTS
103 PAGES

FUNDING:
DELMARVA POWER AND LIGHT COMPANY

INVENTORY:

PUBLICATIONS:
INTERPRETIVE REPORT 1974 BY RAYTHEON COMPANY FOR UNITED ENGINEERS AND CONSTRUCTORS INC., CLIENT: DELMARVA POWER AND LIGHT COMPANY; COMPLETE REPORT OF RAW DATA IN ANNUAL DATA REPORT

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150

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	7	STATIONS			
TIME	EARTH	STATION TIME	YMD	7	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG F	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
SALINITY	WATER	TITRATION	PPT	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG/L	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
PH	WATER	PH METER	PH UNITS	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
LIGHT ATTENUATION	WATER	COLORIMETRY	PERCENT TRANSMITTANCE, JTU	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
HARDNESS	WATER	EDTA TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL ALKALINITY	WATER	TITRATION	MG/L	80	OBS	MONTHLY -	SURFACE,	1 SAMPLE PER

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NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CARBONATE ALKALINITY	WATER	TITRATION	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SULFATE	WATER	NEPHELOMETRY	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL SOLIDS	WATER	DRY WEIGHT	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
PHOSPHORUS	WATER	COLORIMETRY	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
PHOSPHORUS	DISSOLVED	COLORIMETRY	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
AMMONIA	WATER	TITRATION	MG/L	80	OBS	DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY -	SURFACE,	1 SAMPLE PER

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	BOTTOM	OBS; 2 STATIONS
ORGANIC NITROGEN	WATER	TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRATE	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRITE	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	WATER	EXTRACTION/ WEIGHT	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
MAGNESIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
CALCIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY,	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

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NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ALUMINUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80	OBS	MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SILICON	WATER	COLORIMETRY	MG/L	80	OBS	MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	SEDIMENT	EXTRACTION/WEIGHT	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	16	OBS	MONTHLY	SURFACE	4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 1 SAMPLE PER OBS
157 CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
157 CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES PER 100 ML	64	OBS	MONTHLY	SURFACE, BOTTOM	TOTAL AND FECAL COLIFORM COUNT; 4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 2 SAMPLES PER OBS
CHLOROPHYLL A	WATER	FLUOROMETRY	MG/M3	4	STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS; JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
TOTAL PHAEOPHYTIN	WATER	FLUOROMETRY	MG/M3	4	STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS; JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
COUNT OF PHYTOPLANKTON	WATER	FILTRATION	NUMBER PER SPECIES PER ML PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	SPECIES PER ML PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
COUNT OF ZOOPLANKTON	WATER	FIXED, STAINED, ALIQUOT	NUMBER PER SPECIES PER M3 PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY,	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS; 5-TENTHS

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NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES PER M3 PER SAMPLE	560	OBS	MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER MONTHLY	DAY SAMPLING COUNT OF ZOOPLANKTON SURFACE, BOTTOM
MORTALITY OF ZOOPLANKTON	WATER	VISUAL	PERCENT OF TOTAL INDIVIDUALS PER SPECIES DEAD AT TIME OF SAMPLING PER SAMPLE	16	OBS	MONTHLY	2 STATIONS; 1 SAMPLE PER OBS; MARCH, JULY, SEPTEMBER, NOVEMBER
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES PER SAMPLE	135	OBS	MONTHLY	5 STATIONS; 3 SAMPLES PER OBS; APRIL-NOVEMBER; 523 CM2 PONAR SAMPLER
COUNT OF BENTHIC ANIMALS	BOTTOM	MICROSCOPE	NUMBERS PER SPECIES PER SAMPLE	135	OBS	MONTHLY	5 STATIONS; 3 SAMPLES PER OBS; APRIL-NOVEMBER; 523 CM2 PONAR SAMPLER
REACTIVE PHOSPHATE	WATER	COLORIMETRY	UG/L	72	OBS	MONTHLY	SURFACE, BOTTOM

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RECEIVED: AUGUST 27, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., DELAWARE, NEWARK, PORT MAHON MARSH

ABSTRACT:

PRESENTED IN REPORT FORM ARE DATA COLLECTED DURING A STUDY CONDUCTED IN DELAWARE DURING 1967 AND 1968 TO EVALUATE THE EFFECTS OF CERTAIN POTENTIAL CANDIDATE MOSQUITO CONTROL INSECTICIDES ON THREE NON-TARGET SALT MARSH ORGANISMS: THE COMMON KILLIFISH (FUNDULUS HETEROCLITUS), THE GRASS SHRIMP (PALAEMONETES PUGIO) AND THE FIDDLER CRAB (UEA PUGNAX). EMPHASIZED ARE THE CUMULATIVE AND/OR ACUTE EFFECTS OF CERTAIN GRANULAR AND LIQUID FORMULATIONS OF MOSQUITO INSECTICIDES ON THE NON-TARGET SALT MARSH ORGANISMS IN SMALL SCALE FIELD TESTS. THE PERSISTENCE OF CERTAIN INSECTICIDES IN THE HABITAT WATER AND THE PERCENT REDUCTION OF THE SALT MARSH MOSQUITO BY ULTRA-LOW VOLUME APPLICATIONS OF INSECTICIDE IN LARGE SCALE FIELD TESTS.

DATA AVAILABILITY:

PLATFORM TYPES:

FIXED STATION

ARCHIVE MEDIA:

REPORTS
80 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:

ZIMMERMAN, J.H., 1969. TOXICITY OF PARIS GREEN, METHOXYCHLOR AND NEW ORGANOPHOSPHATE INSECTICIDES TO SALT MARSH KILLIFISH AND CRUSTACEANS. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 80 P.

CONTACT:

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UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):

730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS		UNIVERSITY OF DELAWARE EXPERIMENTAL FARM, NEWARK; PORT MAHON MARSH
TIME MORTALITY OF PELAGIC FISH	EARTH WATER	SAMPLING TIME VISUAL	Y PERCENT MORTALITY PER	2 72	STATIONS OBS		

PARAMETER IDENTIFICATION SECTION

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MORTALITY OF BENTHIC ANIMALS	BOTTOM	VISUAL	SPECIES PERCENT MORTALITY PER SPECIES	74	OBS		
MORTALITY OF INSECTS	LAND	VISUAL	PERCENT MORTALITY OF MOSQUITO LARVAE	97	OBS		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		72	OBS		KILLFISH
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		74	OBS		FIDDLER CRAB, GRASS SHRIMP
SPECIES DETERMINATION OF INSECTS	LAND	KEY		97	OBS		MOSQUITOES

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PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN

ABSTRACT:

THE ENVIRONMENTAL PROTECTION AGENCY, ENVIRONMENTAL RESEARCH LABORATORY, HAS BEEN COLLECTING DATA SINCE MARCH 1974 FROM TWO OCEAN DISPOSAL SITES APPROXIMATELY 60 MILES OFF THE COAST OF MARYLAND. THE PARAMETERS INCLUDED IN THIS STUDY ARE: ALUMINUM, CADMIUM, CHROMIUM, COBALT, COPPER, IRON, LEAD, MANGANESE, NICKEL, SILVER, TITANIUM, VANADIUM AND ZINC IN BOTH THE SEDIMENT AND ORGANISMS. MEASUREMENTS OF METALS IN CLAMS AND SCALLOPS ARE SEPARATED BY MUSCLE AND ORGANS. OTHER PARAMETERS INCLUDED ARE: SPECIES DETERMINATION OF BENTHIC ANIMALS, WEIGHT OF BENTHIC ANIMALS AND LENGTH OF BENTHIC ANIMALS. CONTACT DR. D.K. PHELPS, SCIENTIFIC AND TECHNICAL DIRECTOR, EPA ENVIRONMENTAL RESEARCH LABORATORY, SOUTH FERRY ROAD, NARRAGANSETT, RHODE ISLAND 02882.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIPARCHIVE MEDIA:
MAGNETIC DISC
1 DISC (531200 BYTES)

FUNDING:

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
730773 730774 730783 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TIME	EARTH	STATION TIME	YMD	30	STATIONS		
POSITION	EARTH	LONG RANGE NAVIGATIONAL NET	DMS	30	STATIONS		
ALUMINUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		
COBALT	SEDIMENT	ATOMIC ABSORPTION	PPM DRY WEIGHT	30	STATIONS		

NAME	SPHERE	METHOD	UNITS	DATA	AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COPPER	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
IRON	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
LEAD	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
MANGANESE	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
NICKEL	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
SILVER	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
TITANIUM	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
VANADIUM	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
ZINC	SEDIMENT	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		
ALUMINUM IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
CADMIUM IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
CHROMIUM IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
COBALT IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
COPPER IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
IRON IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
LEAD IN BIO MATERIAL	BOTTOM	SPECTROMETRY ATOMIC ABSORPTION	PPM DRY WEIGHT	30		STATIONS		AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MANGANESE IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
NICKEL IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
SILVER IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
TITANIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
VANADIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
ZINC IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS		SEPARATELY AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		30	STATIONS		CLAMS AND SCALLOPS
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT		30	STATIONS		
WEIGHT OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT		30	STATIONS		
POSITION	EARTH	SHORT RANGE NAVIGATIONAL NET	DMS	30	STATIONS		MINI RANGER III

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PROJECTS:

NPDES PERMIT COMPLIANCE MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U. S., VIRGINIA

ABSTRACT:

THIS FILE CONTAINS POINT DISCHARGE TESTING DATA FROM AS EARLY AS 1946. BY THE MID-1960'S, THE STATE WATER CONTROL BOARD HAD DEVELOPED A REGULAR MONITORING PROGRAM. IN 1972 NPDES UNDER PL92-500 REPLACED THIS PROGRAM. EACH MAJOR DISCHARGER IS TESTED BY VSWCB AT LEAST ANNUALLY TO VERIFY THE DATA FROM THE DISCHARGER MONITORING REPORTS. MINOR DISCHARGES SHOULD BE TESTED ANNUALLY. SOME PARAMETERS TESTED INCLUDE NUTRIENTS, HEAVY METALS, KEPONE AND OILS. THESE REPORTS ARE ON FILE WITH EACH OF THE RESPECTIVE DMR'S WHICH TOTAL APPROXIMATELY 4000 FILES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1952 - DECEMBER 1952

PROJECTS:

OBSERVATIONS ON THE COPPER AND MANGANESE CONTENT IN THE OYSTER IN THE UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, SEVERN RIVER, HACKETTS POINT, TOLLYS POINT

ABSTRACT:

THE PURPOSE OF THIS STUDY WAS TO DETERMINE THE CONCENTRATION OF COPPER AND MANGANESE IN THE OYSTER, CRASSOSTREA VIRGINICA, AND IN THE WATER SURROUNDING THE OYSTER BAR. TWO LOCATIONS WERE SAMPLED AT THE MOUTH OF THE SEVERN RIVER. COLLECTIONS WERE DONE BIMONTHLY DURING 1952.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN, MARYLAND ROOM 301-454-3035
McKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

VIRGINIA STATE FISH KILL CASE FILES

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:

THE VIRGINIA STATE WATER CONTROL BOARD IS RESPONSIBLE FOR INVESTIGATING ALL FISH KILLS. THE CAUSE, EXTENT AND COSTS OF DAMAGE MUST BE DETERMINED. ONLY SPARSE COVERAGE WAS GIVEN TO FISH KILLS FROM 1955 TO 1970 (286 CASES). STARTING IN 1970, COVERAGE INCREASED CONSIDERABLE (979 CASES TO DATE), AS DID THE QUALITY OF THE REPORTS. ONLY ABOUT 10% OF THE REPORTS INCLUDE WATER AND/OR TISSUE ANALYSES FOR HEAVY METALS, PESTICIDES, CHLORINE AND NUTRIENTS AND THESE METHODS HAVE VARIED OVER THE YEARS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
211 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1960 - SEPTEMBER 1963

PROJECTS:

FIELD TESTS OF HERBICIDE TOXICITY TO CERTAIN ESTUARINE ANIMALS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, WICOMICO RIVER, PATUXENT RIVER

ABSTRACT:

FROM 1960-1963 CAGED BLUE CRABS (CALLINECTES SAPIDUS), EASTERN OYSTERS (CRASSOSTREA VIRGINICA), SOFTSHELL CLAMS (MYA ARENARIA), AND VARIOUS SPECIES OF FISH WERE EXPOSED EXPERIMENTALLY TO DIFFERENT CONCENTRATIONS OF HERBICIDES IN THE FIELD IN MARYLAND AND VIRGINIA TIDEWATERS TO DETERMINE POSSIBLE TOXICITY EFFECTS. HERBICIDES TESTED WERE PRINCIPALLY 2,4-D FORMULATIONS WHICH SHOWED PROMISE OF EFFECTIVELY CONTROLLING EURASIAN WATERMILFOIL. EMPIRICAL COMPARISONS OF CLAM POPULATIONS IN TREATED AND CONTROL PLOTS WERE MADE IN 1961, 1962 AND 1963.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4281
UNIVERSITY OF MARYLAND
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

FIELD STUDIES OF SHELL REGROWTH AS A BIOINDICATOR OF EASTERN OYSTER RESPONSE TO 2,4-D BEE

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, WICOMICO RIVER,
POTOMAC RIVER

ABSTRACT:

NEW GROWTH WAS FILED FROM EASTERN OYSTER SHELLS AND WIRE TRAYS HOLDING 25 OYSTERS EACH WERE EXPOSED TO 2,4-D BEE AT RATES OF EITHER 22.5, 33.75 OR 67.5 KGAE (ACID EQUIVALENT)/H (20, 30 OR 60 LB AE/ACRE). REGENERATED SHELL GROWTH WAS MEASURED TO DETERMINE THE EFFECT OF HERBICIDE APPLICATION ON THE OYSTER. TWO SITES WERE USED: A DOUBLE-POND AREA WITH NARROW INLET AND OUTLET (COATIGUN RUN ON PATUXENT RIVER), AND AN OPEN BAY (CHAPTICO BAY OFF THE WICOMICO RIVER, A TRIBUTARY TO THE POTOMAC RIVER).

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4281
UNIVERSITY OF MARYLAND
CHESAPEAKE BIOLOGICAL LABORATORY
BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1964 - NOVEMBER 1967

PROJECTS:

GREENING AND COPPER ACCUMULATION IN THE AMERICAN OYSTER IN THE VICINITY OF A STEAM ELECTRIC GENERATING STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

THIS REPORT SUMMARIZES DATA ON THE GREEN COLOR AND COPPER UPTAKE IN OYSTERS IN THE PATUXENT RIVER ESTUARY. THE DATA COVERS THE PERIOD FROM MAY 1964 TO NOVEMBER 1967 AND FROM MARCH 1969. SIX STATIONS, BOTH UPSTREAM AND DOWNSTREAM OF THE CHALK POINT STEAM ELECTRIC STATION, WERE MONITORED MONTHLY WHENEVER POSSIBLE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

WILLEM ROOSENBURG 301-326-4281
POST OFFICE BOX 38
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

ORGANOCHLORINE RESIDUES IN ESTUARINE MOLLUSKS, 1965-1972 - NATIONAL PESTICIDE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, VIRGINIA

ABSTRACT:

THE PROGRAM IS A NATIONAL PROGRAM FOR MONITORING ESTUARINE MOLLUSKS IN 15 COASTAL STATES. FIFTEEN ORGANOCHLORINE COMPOUNDS ARE ANALYZED FOR THEIR CONCENTRATIONS IN FIVE SPECIES OF ESTUARINE MOLLUSKS FROM 1965-72. THE RESIDUE DATA FOR THE INDIVIDUAL STATES IS PRESENTED AS WELL AS A GENERAL SUMMARY AND CONCLUSIONS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PHILIP BUTLER 904-932-5311
EPA ENVIRONMENTAL RESEARCH LABORATORY
SABINE ISLAND
GULF BREEZE, FLORIDA 32561

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1966 - 1976

PROJECTS:

MORGANTOWN STEAM ELECTRIC STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:

THIS REPORT (VOLUMES I AND II) SUMMARIZES THE RESULTS OF A 10-YEAR PERIOD (1966-1976) OF STUDIES. THEY WERE DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA ON THE AQUATIC ECOSYSTEM OF THE POTOMAC RIVER IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC STATION. THE REPORT INCLUDES HYDROTHERMAL DATA, CHEMICAL AND PHYSICAL DATA (SALINITY, TEMPERATURE, NUTRIENTS, DISSOLVED OXYGEN, PH, FREE DISSOLVED CARBON DIOXIDE, HEAVY METALS), PHYTOPLANKTON AND BACTERIOLOGICAL DATA, MACROINVERTEBRATE SURVEYS AND FISH SURVEYS. THE APPENDICES INCLUDE TWO STUDIES (1971 AND 1976) ON METALS IN OYSTERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 215-567-3700
THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
DIVISION OF LIMNOLOGY AND ECOLOGY
19TH AND THE PARKWAY
PHILADELPHIA, PA 19103

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

THE ACCUMULATION AND LOSS OF FIELD-APPLIED BUTOXYETHONAL ESTER OF 2,4-D IN EASTERN OYSTERS
CRASSOSTREA VIRGINICA AND SOFT-SHELLED CLAMS, MYA ARENARIA

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, WESTERN SHORE, WICOMICO RIVER

ABSTRACT:

FIELD STUDIES IN THE WICOMICO RIVER WERE MADE IN 1966 TO DETERMINE THE ACCUMULATION AND LOSS OF 2,4-D RESIDUES IN EASTERN OYSTERS AND SOFT-SHELLED CLAMS. FOUR ONE-ACRE PLOTS, ABOUT 209 FEET TO A SIDE, WERE MEASURED. THREE WERE TREATED AND ONE WAS USED AS A CONTROL. THE EFFECT OF 2,4-D WAS MEASURED BECAUSE IT HAD BEEN USED AS A CONTROL FOR EURASIAN WATERMILFOIL PREVIOUSLY. OYSTERS AND CLAMS WERE PLACED AT THE CENTER OF EACH PLOT IN CAGES. 2,4-D WAS ADMINISTERED IN DIFFERENT CONCENTRATIONS TO THE PLOTS. OYSTERS AND CLAMS WERE BIOASSAYED AT DIFFERENT INTERVALS OVER A 2 MONTH PERIOD TO STUDY THE RATE OF RESIDUE LOSS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4821
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MARYLAND 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1970 - PRESENT

PROJECTS:

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:

THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM BEGAN IN 1970 TO MONITOR THE AREA AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT ON THE CHESAPEAKE BAY. EACH YEAR APPROXIMATELY 1500 ANALYSES ARE PERFORMED ON 800 ENVIRONMENTAL SAMPLES FROM THE AQUATIC, ATMOSPHERIC AND TERRESTRIAL ENVIRONMENTS. SOME OF THE PARAMETERS MEASURED INCLUDE TRITIUM, STRONTIUM-89, STRONTIUM-90 AND GROSS ALPHA, BETA AND GAMMA EMITTING NUCLIDES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

STEVEN LONG 301-269-2261
MARYLAND DEPT. OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BLDG. - 580 TAYLOR AVENUE
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

WATER QUALITY CONDITIONS IN THE CHESAPEAKE BAY SYSTEM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS IS A COMPILATION AND ANALYSIS OF WATER QUALITY DATA OF THE CHESAPEAKE BAY IN 1972. THE DATA, AND ANALYSIS OF IT, IS DIVIDED BY GEOGRAPHIC AREA AND FURTHER SUBDIVIDED BY RIVER BASIN. PARAMETERS ANALYZED INCLUDE CHLOROPHYLL A, DISSOLVED OXYGEN, NITROGEN, PHOSPHORUS, COLIFORM BACTERIA, HEAVY METALS AND PESTICIDES, WHERE THE DATA EXISTS. DATA WAS GATHERED FROM THE ANNAPOLIS FIELD OFFICE, NATIONAL MARINE FISHERIES SERVICE, U.S. GEOLOGICAL SURVEY, MARYLAND DEPARTMENT OF WATER RESOURCES, UNIVERSITY OF MARYLAND, THE JOHNS HOPKINS UNIVERSITY, VIRGINIA WATER CONTROL BOARD, VIRGINIA INSTITUTE OF MARINE SCIENCE, THE DISTRICT OF COLUMBIA DEPARTMENT OF ENVIRONMENTAL SERVICES, MARYLAND DEPARTMENT OF HEALTH AND MARYLAND ENVIRONMENTAL SERVICE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN - 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, ENVIRONMENTAL PROTECTION AGENCY
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1970 - DECEMBER 1970

PROJECTS:

METALS IN BALTIMORE HARBOR AND UPPER CHESAPEAKE BAY AND THEIR ACCUMULATION BY OYSTERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS STUDY BEGAN IN MAY 1970. IT SURVEYED TRACE METAL CONCENTRATIONS IN THE SEDIMENTS OF BALTIMORE HARBOR AND UPPER CHESAPEAKE BAY AT 45 STATIONS. FIELD STUDIES WERE CONDUCTED AT 3 STATIONS ON THE EFFECTS OF SEDIMENTS AND SALINITY ON TRACE METAL UPTAKE BY OYSTERS. PRELIMINARY LABORATORY STUDIES OF THE UPTAKE OF ESTUARINE SHELLFISH OF TRACE METALS FROM SEDIMENTS WERE INITIATED. THIS WAS A JOINT EFFORT OF THE MARYLAND BOARD OF PUBLIC WORKS, THE MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE AND THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-338-8255
CHESAPEAKE BAY INSTITUTE - JOHNS HOPKINS UNIVERSITY
34TH AND CHARLES STREETS
BALTIMORE, MARYLAND 21218

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

HEAVY METALS ANALYSES OF BOTTOM SEDIMENT IN THE POTOMAC RIVER ESTUARY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESPEAKE BAY, POTOMAC RIVER

ABSTRACT:

THIS PROGRAM WAS A COORDINATED EFFORT BETWEEN THE ANNAPOLIS FIELD OFFICE AND THE RESEARCH AND DEVELOPMENT LABORATORY OF THE U.S. NAVAL ORDINANCE STATION IN INDIAN HEAD, MARYLAND. SAMPLES WERE COLLECTED IN AUGUST AND SEPTEMBER 1970, AND AGAIN IN APRIL 1971. THEY WERE ANALYZED FOR LEAD, COPPER, CALCIUM, BARIUM, SILVER, IRON, STRONTIUM, LITHIUM, COBALT, MAGNESIUM, MANGANESE, ALUMINUM, POTASSIUM, ZINC, VANADIUM, CADMIUM, CHROMIUM AND NICKEL. STATIONS WERE LOCATED FROM CHAIN BRIDGE IN WASHINGTON, D.C. TO THE MOUTH OF THE POTOMAC RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1971 - PRESENT

PROJECTS:

SHELLFISH SANITATION PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS ONGOING SHELLFISH MONITORING PROGRAM BEGAN IN 1971. SAMPLING IS DONE AT 1500 STATIONS AROUND THE CHESAPEAKE BAY AND ITS TRIBUTARIES AT LEAST ONCE A MONTH. SAMPLES ARE ANALYZED FOR TEMPERATURE, SALINITY, DISSOLVED OXYGEN, FECAL COLIFORM AND TOTAL COLIFORM. SHELLSTOCK AND FINFISH ARE COLLECTED ROUTINELY AND ANALYZED FOR HEAVY METAL, PESTICIDE, CHLORINATED HYDROCARBON, BACTERIAL AND ORGANIC CHEMICAL CONCENTRATIONS. BOATS ARE COLLECTING SAMPLES FOUR DAYS A WEEK, 50 WEEKS A YEAR.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

MAX EISENBERG 301-383-2365
MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE
201 W. PRESTON STREET, P.O. BOX 13387
BALTIMORE, MD 21201

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

PROCESSES AFFECTING THE COMPOSITION OF ESTUARINE WATERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, SUSQUEHANNA RIVER

ABSTRACT:

THIS STUDY INVOLVES HEAVY METAL BEHAVIOR IN WATER FROM THE UPPER CHESAPEAKE BAY AND SUSQUEHANNA RIVER. THE PARAMETERS INCLUDE IRON, ZINC, COPPER, NICKEL, COBALT, CHROMIUM AND CADMIUM. ALL OF THE DATA IS SUMMARIZED ON GRAPHS. DATA FROM 1961, 1965, 1966 AND 1971 IS INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-338-8255
CHESAPEAKE BAY INSTITUTE, THE JOHNS HOPKINS UNIVERSITY
34TH AND CHARLES STREETS
BALTIMORE, MARYLAND 21218

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1971 - APRIL 1972

PROJECTS:

IRON, ZINC, MAGNESIUM AND COPPER CONCENTRATIONS IN BODY MEAT OF THE BLUE CRAB

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS STUDY ANALYZES THE BODY MEAT OF THE BLUE CRAB, CALLINECTES SAPIDUS, FOR IRON, ZINC, MAGNESIUM AND COPPER BY ATOMIC ABSORPTION. SAMPLES WERE COLLECTED BIWEEKLY FROM MAY 5, 1971 TO APRIL 19, 1972. TWENTY-SIX SAMPLES OVER THE ONE YEAR PERIOD WERE TAKEN.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DAVID BOON 301-968-1655
BOX 351
UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL AND ESTUARINE STUDIES
MARINE PRODUCTS LABORATORY
CRISFIELD, MD 21817

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

THE DYNAMICS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA -- SEASONAL EFFECTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:

THE SEASONAL EFFECTS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA, WERE STUDIED USING A GENETICALLY SIMILAR POPULATION. SAMPLES WERE COLLECTED MONTHLY FROM SEPTEMBER 1971 THROUGH MAY 1973 IN THE RHODE RIVER. THE SAMPLES WERE ANALYZED FOR Mn, Fe, Zn, Cu, AND Cd IN THE SOFT TISSUE AS WELL AS IN THE SHELL.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN FRAZIER 301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: NOVEMBER 1971 - OCTOBER 1972

PROJECTS:

CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:

THE MAJOR OBJECTIVES OF THE CHESTER RIVER STUDY WERE TO DETERMINE THE EFFECTS OF CHLORINATED HYDROCARBONS AND OTHER POLLUTANTS UPON SHELLFISH AND BIOTA IN THE CHESTER RIVER, AND IDENTIFICATION OF THE SOURCES, DISTRIBUTION, AND MODES OF TRANSPORT OF THESE POLLUTANTS WITHIN THE RIVER SYSTEM. LABORATORY TOXICITY STUDIES ON SHELLFISH WERE CONDUCTED AND A FIELD SAMPLING PROGRAM MEASURED POLLUTANT LEVELS IN BIOTA, SEDIMENTS AND WATER. HYDROLOGICAL AND METEOROLOGICAL PARAMETERS WERE CONSTANTLY MEASURED IN ORDER TO DETERMINE WATER CIRCULATION AND TRANSPORT OF POLLUTANTS THROUGH THE RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-765-1000
WESTINGHOUSE OCEAN RESEARCH LABORATORY
BOX 1488
ANNAPOLIS, MARYLAND 21404

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:
DISCHARGER MONITORING REPORTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U. S., VIRGINIA

ABSTRACT:
THESE REPORTS ARE REQUIRED AS PART OF THE NPDES PROGRAM UNDER PL 92-500 INITIATED IN 1972. MUNICIPAL AND INDUSTRIAL DISCHARGERS SELF-TEST THEIR OWN EFFLUENT TO MONITOR SUCH PARAMETERS AS NUTRIENTS, HEAVY METALS, KEPONE AND OILS WITH VARYING FREQUENCIES ASSIGNED EACH PARAMETER. APPROXIMATELY 4000 FILES ARE NOW ACTIVE AND ARE ADMINISTERED BY THE STATE FOR EPA.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1972 - 1975

PROJECTS:

TRACE METALS IN THE CHESAPEAKE BAY - BIOLOGICAL ASPECTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SOUTH RIVER

ABSTRACT:

THIS PROJECT GENERATED DATA FROM 1972 THROUGH 1975. MOST OF THE SAMPLING WAS DONE IN THE RHODE RIVER. HOWEVER, DATA ON METAL CONCENTRATIONS IN MOLLUSKS WAS COLLECTED IN THE SOUTH RIVER (1972-73), PATUXENT RIVER (1973), MAGOTHY RIVER (1973) AND IN STONEY CREEK (1973) WHICH IS A TRIBUTARY OF THE PATAPSCO RIVER. SEDIMENTS WERE ANALYZED FOR Mn, Cu, Zn, Fe, Cd, Pb, Co, Ni AND Cr. THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA, AND 5 OTHER MOLLUSKS WERE ANALYZED FOR CONCENTRATIONS OF Mn, Zn, Fe, Cd AND Cu. SHELLS WERE ALSO ANALYZED. INVERTEBRATES WERE COLLECTED AND ANALYZED IN 1972 AND 1973 FOR Mn, Zn, Cu, Cd AND Fe. NINE SPECIES OF FISH WERE SAMPLED DURING 1972, 1973 AND 1974 AND ANALYZED FOR THE 5 HEAVY METALS ABOVE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN FRAZIER 301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDC IN JUNE 1978

PROJECTS:

HEAVY METALS IN COASTAL FISHES OF NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:

HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

RICHARD BARBER 919-728-2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT, N.C. 28516

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: SEPTEMBER 1972 - AUGUST 1973

PROJECTS:

THE DYNAMICS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA--ENVIRONMENTAL EFFECTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, RHODE RIVER, MAGOTHY RIVER, STONEY CREEK

ABSTRACT:

THE CONCENTRATIONS OF Mn, Fe, Zn, Cu AND Cd WERE STUDIED IN OYSTER SAMPLES FROM SEPTEMBER, 1972 UNTIL AUGUST, 1973. GENETICALLY SIMILAR POPULATIONS WERE LOCATED IN THREE AREAS IN THE RHODE RIVER INCLUDING TWO IN CADLE CREEK AND ONE OFF THE DOCK OF THE SMITHSONIAN CENTER FOR ENVIRONMENTAL STUDIES. THESE AREAS REPRESENTED WATERSHEDS IMPACTED BY DIFFERENT LAND USE. SAMPLES WERE COLLECTED MONTHLY WITH 10 OYSTERS FROM EACH STATION. HEAVY METAL CONCENTRATIONS, AND MEASUREMENTS OF SOFT TISSUE DRY WEIGHT, SHELL DIMENSIONS AND SHELL WEIGHT WERE TAKEN. SEDIMENT ANALYSES FOR METALS WERE USED TO EVALUATE ENVIRONMENTAL CONTAMINATION.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN FRAZIER 301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

DISTRIBUTION OF METALS IN BALTIMORE HARBOR SEDIMENTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, BALTIMORE HARBOR

ABSTRACT:

THIS STUDY WAS AN INVENTORY OF METALS CONTAMINATION OF BALTIMORE HARBOR. SAMPLES WERE TAKEN IN 1973 AT 176 STATIONS AND ANALYZED FOR Cd, Cu, Cr, Hg, Pb, Zn, Ni and Mn. ATOMIC ABSORPTION SPECTROPHOTOMETRY WAS USED. DISTRIBUTION PATTERNS OF THE METALS WERE RELATED TO INDUSTRIAL AND MUNICIPAL INPUTS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1973 - DECEMBER 1974

PROJECTS:

UPPER BAY SURVEY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THE UPPER BAY SURVEY WAS AN EXTENSION AND EXPANSION OF THE EARLIER CHESTER RIVER STUDY. ITS PURPOSE WAS TO ASSESS THE NATURE OF THE SOURCES, ROUTES, AND SINKS OF CHLORINATED HYDROCARBONS AND BACTERIA DAMAGING AQUATIC SPECIES. STATIONS (24) WERE LOCATED ACROSS 11 TRANSECTS FROM THE MOUTH OF THE SUSQUEHANNA TO THE MOUTH OF THE SEVERN RIVER. LABORATORY AND FIELD PROGRAMS WERE CARRIED OUT IN SIX FIELDS INCLUDING MARINE BIOLOGY, MICROBIOLOGY, BIOCHEMISTRY, ESTUARINE SEDIMENTOLOGY, HYDROLOGY AND METEOROLOGY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION - OCEANIC DIVISION
BOX 1488
ANNAPOLIS, MARYLAND 21404

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

TREND AMBIENT SURFACE WATER QUALITY MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

WATER QUALITY MONITORING HAS BEEN DONE THROUGHOUT THE CHESAPEAKE BAY AND ITS TRIBUTARIES SINCE 1974 TO ESTABLISH TRENDS. SAMPLES ARE COLLECTED MONTHLY AND ANALYZED FOR APPROXIMATELY 20 WATER QUALITY PARAMETERS. THERE ARE 150 STATIONS WITH 16 OF THEM RUNNING LONGITUDINALLY UP THE CENTER OF THE BAY. PRINTOUTS OF THE DATA ARE AVAILABLE IN ANNUAL TREND DATA REPORTS FROM 1975 THROUGH THE PRESENT. A SUMMARY REPORT FOR DATA FROM 1966-1974 IS AVAILABLE. ALSO AVAILABLE IS A PRINTOUT SUMMARIZING THE MASTER SAMPLING STATIONS AND WATER QUALITY DATA INVENTORY. THE DATA FROM 1966-1974 WAS NOT COLLECTED OR ANALYZED ON A REGULAR BASIS FOR THE 20 PARAMETERS. LITTLE DATA EXISTS ON HEAVY METALS, PESTICIDES AND OIL AND GREASE. IT IS POSSIBLE THAT THESE PARAMETERS MAY BE MEASURED ON AN ANNUAL BASIS IN THE FUTURE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-269-3677
MARYLAND WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1974 - 1976

PROJECTS:

REGIONAL DISTRIBUTION OF Zn, Cu, Cd and Hg IN SHELLFISH IN NORTH CHESAPEAKE

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS PAPER WAS DEVELOPED FROM 130 ANALYSES ON OYSTERS AND 41 ANALYSES ON CLAMS THAT WERE COLLECTED FROM THE UPPER CHESAPEAKE BAY DURING 1975 AND 1976. THE SAMPLES WERE ANALYZED FOR ZINC, COPPER, CADMIUM AND MERCURY. THEY WERE COLLECTED DURING THE HARVESTING SEASON BY THE MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

GEORGE HELZ 301-454-3872
UNIVERSITY OF MARYLAND
DEPARTMENT OF CHEMISTRY
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978

PROJECTS:

DISTRIBUTION OF METALS IN ELIZABETH RIVER SEDIMENTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, ELIZABETH RIVER

ABSTRACT:

THIS STUDY PROVIDES BASELINE DATA OF CONDITIONS RELATING TO METALS CONTAMINATION OF ELIZABETH RIVER SEDIMENTS. SAMPLES WERE COLLECTED AT 96 STATIONS AND ANALYZED FOR Cd, Cu, Cr, Hg, Pb, Zn, Al, AND Fe USING ATOMIC ABSORPTION SPECTROPHOTOMETRY. SEWAGE TREATMENT PLANT LOCATIONS, INDUSTRIAL DISCHARGES AND TABLES CONCERNING TOXICITY OF METALS TO MARINE LIFE ARE INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1974

PROJECTS:

LITTLE CREEK BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, LITTLE CREEK

ABSTRACT:

TWENTY SEDIMENT SAMPLES TAKEN BY ENVIROPLAN WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR NUTRIENTS, OILS, AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

HEAVY METAL ANALYSES OF OYSTERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:

BEGINNING IN SEPTEMBER 1975, 5 OYSTER SAMPLES (CRASSOSTREA VIRGINICA) FROM 3 LOCATIONS AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT WERE COLLECTED QUARTERLY. THEY WERE ANALYZED FOR ZINC, MANGANESE, IRON, CHROMIUM, COPPER AND NICKEL BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

RANDY ROIG 301-269-2261
MARYLAND DEPARTMENT OF NATURAL RESOURCES
POWER PLAN SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

193

DATA COLLECTED: SPRING 1975

PROJECTS:

WHITE PERCH PROJECT

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER

ABSTRACT:

THIS STUDY EXAMINES THE DRASTIC POPULATION REDUCTION OF WHITE PERCH IN THE JAMES RIVER DURING THE SPRING OF 1975. ABOUT 30-40 SAMPLES WERE TAKEN FROM 4 STATIONS AND ANALYZED FOR HEAVY METALS BUT THE STUDY WAS TERMINATED WHEN THE POPULATION RETURNED TO NORMAL. NO REPORT WAS WRITTEN.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
211 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

SEDIMENT-METAL ELUTRIATES ANALYSIS, "TRANSCO" SITE, ELIZABETH RIVER

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, ELIZABETH RIVER

ABSTRACT:

TWENTY-FOUR STATIONS WERE SAMPLED AS PART OF A STUDY BY NUS CORPORATION TO DETERMINE THE ENVIRONMENTAL IMPACT OF DREDGING OPERATIONS FOR THE "TRANSCO" SITE IN THE ELIZABETH RIVER. SEDIMENT AND ELUTRIATE SAMPLES WERE ANALYZED FOR WATER QUALITY AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1975

PROJECTS:

LYNNHAVEN BAY BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, LYNNHAVEN BAY

ABSTRACT:

SIX SEDIMENT SAMPLES TAKEN BY ENVIROPLAN WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR SOLIDS, COD, AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

INVESTIGATION OF HEAVY METAL CONCENTRATIONS OF SEDIMENT AND BIOTA IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC GENERATING STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MORGANTOWN

ABSTRACT:

MEASUREMENTS OF COPPER, NICKEL AND ZINC IN SEDIMENTS WERE TAKEN OVER A LARGE AREA IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC GENERATING STATION. LEVELS OF THESE METALS IN THE BODY TISSUE OF TWO BIVALVES, RANGIA CUNEATA AND MACOMA BALTHICA, WERE MEASURED. APPROXIMATELY 42 STATIONS WERE SAMPLED ONCE IN JUNE 1975.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

RANDY ROIG 301-269-2261
MARYLAND DEPT. OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1975 TO SEPTEMBER 1975

PROJECTS:

LOWER CHESAPEAKE BAY BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES AND BACK RIVERS, SKIFFE'S AND DEEP CREEKS

ABSTRACT:

NINETEEN SEDIMENT SAMPLES, SEVEN ELUTRIATE SAMPLES AND SIX WATER COLUMN SAMPLES TAKEN BY THE ARMY CORPS OF ENGINEERS WERE ANALYZED FOR HEAVY METALS UNDER FOUR SEPARATE CONTRACTS BY VIRGINIA INSTITUTE OF MARINE SCIENCE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

BIOLOGICAL AND CHEMICAL STUDIES OF DREDGED CANALS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, BACK RIVER, TOPPING CREEK.

ABSTRACT:

THIS STUDY CONCERNING A DEVELOPMENT OF INLAND HOUSING DEVELOPMENT CANALS AT THE MOUTH OF TOPPING CREEK WAS SUBMITTED TO THE ARMY CORPS OF ENGINEERS. EIGHT STATIONS WERE SAMPLED ONCE IN JULY AND ONCE IN OCTOBER. PARAMETERS MEASURED INCLUDED GRAIN SIZE, WATER QUALITY, HEAVY METALS AND OILS. IN ADDITION, BENTHIC BIOTA POPULATIONS WERE STUDIED EXTENSIVELY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1975 TO SEPTEMBER 1975

PROJECTS:

THE FATE OF PETROLEUM HYDROCARBONS FROM AN EXPERIMENTAL OIL SPILL IN A SEMINATURAL ESTUARINE ENVIRONMENT.

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, YORK RIVER, CHEATHAM ANNEX, PENNIMAN SPIT.

ABSTRACT:

TWO LARGE PENS (576 m² EACH) WERE BUILT OUT FROM THE SHORE TO CONTAIN THE FRESH #2 FUEL OIL (85 L SPILLED IN ONE, 28 L IN THE OTHER). A CONTROL AREA WAS ESTABLISHED 50 m AWAY FROM THE PENS. SAMPLES OF OYSTERS, CLAMS, SEDIMENT AND WATER WERE TAKEN FROM EACH OF THE THREE AREAS BEFORE THE SPILL AND IMMEDIATELY (6 HRS.) AFTERWARDS FOR ABOUT A MONTH. LEVELS OF PETROLEUM HYDROCARBONS WERE ANALYZED USING GAS CHROMATOGRAPHY AND A COMPUTERIZED GC-MS SYSTEM.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. RUDOLF H. BIERI 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

EXPERIMENTAL OIL SPILL IN CUB CREEK, VIRGINIA

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, YORK RIVER, CHEATHAM ANNEX, QUEEN'S CREEK, CUB CREEK

ABSTRACT:

FIVE LARGE PENS (810 m² EACH) WERE BUILT TO ENCLOSE SOME OF THE CREEK ITSELF AND A LARGE AREA OF INTERTIDAL MARSH. FRESH OIL (570 l EACH) WAS SPILLED INTO 2 PENS, WEATHERED OIL (760 l EACH) INTO 2 OTHER PENS AND 1 PEN SERVED AS A CONTROL. ANOTHER CONTROL WAS ESTABLISHED OUTSIDE THE PENS. MEASUREMENTS WERE MADE TO DETERMINE THE EFFECTS OF THE OIL SPILL ON WATER QUALITY, MARSH GRASS, BENTHIC BIOTA, FISH, PLANKTON, FUNGI AND BACTERIA. PETROLEUM HYDROCARBON LEVELS WERE MEASURED IN SEDIMENT, WATER, FISH, CLAMS, OYSTERS AND ORGANIC DETRITUS. SAMPLING CONTINUES FOR MOST PARAMETERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

PROJECTS:

KEPONE MONITORING STUDY IN VIRGINIA WATERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:

THE VIRGINIA STATE WATER CONTROL BOARD IS MONITORING KEPONE LEVELS IN SEDIMENT, WATER AND FISH. WATER AND SEDIMENT SAMPLES ARE TAKEN FROM 55-60 STATIONS IN THE JAMES RIVER AND ITS TRIBUTARIES WHILE THE FISH ARE SAMPLED FROM 15 ZONES IN THE JAMES AND LOWER CHESAPEAKE BAY - ALL WITH VARYING FREQUENCY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

KEPONE MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER, LOWER CHESAPEAKE BAY

ABSTRACT:

THIS PROGRAM MONITORS KEPONE LEVELS IN SHELLFISH AND CRABS IN THE JAMES RIVER AND LOWER CHESAPEAKE BAY ON A MONTHLY BASIS. SAMPLING OF SHELLFISH AT 10 STATIONS BEGAN IN DECEMBER 1975. SAMPLING OF CRABS AT 15-20 STATIONS AND 15 CRAB PLANTS BEGAN IN SPRING 1976.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVENOR STREET
RICHMOND, VIRGINIA 23219

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1976 - PRESENT

PROJECTS:

HERBICIDES AND SUBMERGED PLANTS IN CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, POPLAR ISLANDS

ABSTRACT:

THIS PAPER IS PART OF AN ONGOING STUDY IN THE UPPER CHESAPEAKE BAY, MARYLAND INITIATED IN THE SPRING OF 1976. ITS PURPOSE IS TO STUDY THE EFFECTS THAT 6 HERBICIDES, SEDIMENTS AND NUTRIENTS HAVE ON ROOTED AQUATIC PLANTS. DOSE RESPONSE BIOASSAYS OF ATRAZINE TOXICITY WERE CARRIED OUT IN THE LABORATORY ON ZANICHELLIA PALUSTRIS, HORNED PONDWEED.

FOUR WATERSHEDS WERE MONITORED ALONG THE RHODE RIVER FOR RUNOFF. TWO OF THE ESTUARINE STATIONS WERE LOCATED ON THE RHODE RIVER AND ONE WAS LOCATED IN A TIDAL MUD FLAT NEAR THE POPLAR ISLANDS ON THE EASTERN SHORE OF MARYLAND. NO AGRICULTURE IS PRACTICED ON THE ISLANDS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

INPUT OF TRACE METALS TO MID-CHESAPEAKE BAY FROM SHORE EROSION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THE PURPOSE OF THE STUDY WAS TO ASSESS THE TRACE METAL FLUX FROM SHORE EROSION TO THE BAY. SEDIMENT SAMPLES (48) WERE TAKEN FROM MID-BAY AND THE NORTHERN BAY AND ANALYZED FOR CONCENTRATIONS OF Si, Al, Fe, Ca, K, Ti, Cr, Mn, Co, Ni, Cu, Zn, Cd AND Pb. A MODEL IS PROPOSED THAT TRACES METAL INPUT INTO THE BAY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN, MARYLAND ROOM 301-454-3035
McKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1976

PROJECTS:

KEPONE: CHRONIC EFFECTS ON EMBRYO, FRY, JUVENILE, AND ADULT SHEEPSHEAD MINNOWS (CRYRINODON VARIEGATUS)

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THE TOXICITY OF KEPONE TO THE EMBRYO, FRY, JUVENILE, AND ADULT SHEEPSHEAD MINNOW (CYPRINODON VARIEGATUS) WAS INVESTIGATED. FISH WERE EXPOSED IN 28-DAY AND 36-DAY TIME SPANS AND ANALYZED FOR KEPONE CONCENTRATIONS AND ABNORMALITIES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4281
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

RURAL NON-POINT POLLUTION STUDIES IN MARYLAND

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SEVERN RIVER, CHOPTANK RIVER, POPLAR ISLANDS.

ABSTRACT:

ACTIVITIES BEGAN IN 1976. DATA ON HERBICIDE AND FERTILIZER APPLICATION, SOIL CHEMISTRY, VOLUME AND COMPOSITION OF RUNOFF WATERS, RAINFALL, SOIL MOISTURE AND TEMPERATURE, PLANT GROWTH, NUTRIENT REMOVAL, SOIL COVERAGE BY PLANTS, SOIL EROSION RATES, SOIL MINERALOGY AND PARTICLE SIZE DISTRIBUTION WAS OBTAINED. RUNOFF SAMPLES FROM 8 BASIN-SIZED WATERSHEDS WERE ANALYZED FOR CATION AND HERBICIDE CONCENTRATIONS. HERBICIDE CONCENTRATIONS IN WATER, SUSPENDED SEDIMENTS AND BOTTOM SEDIMENTS WERE MEASURED AS WELL AS TURBIDITY, SALINITY, PHYTOPLANKTON CHLOROPHYLL CONCENTRATIONS AND BOTTOM SEDIMENT CHARACTERISTICS. SUBMERGED VEGETATION POPULATION STUDIES WERE DONE IN THE FIELD. LAB ASSAYS WERE PERFORMED ON LINURON AND ATRAZINE TOXICITY EFFECTS ON SUBMERGED VEGETATION. FIVE FIELD STATIONS WERE SAMPLED MONTHLY ON THE RHODE RIVER, 8 STATIONS ON THE CHOPTANK RIVER AND 4 STATIONS AROUND THE POPLAR ISLANDS WERE SAMPLED FOUR TIMES A YEAR.

DATA AVAILABILITY: SIX STATIONS ON THE SEVERN RIVER WERE SAMPLED ONCE.

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, P.O. BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1976 - JULY 1976

PROJECTS:

THE DETERMINATION OF TRACE AMOUNTS OF CADMIUM IN OYSTERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, JAMES RIVER, GREAT WICOMICO RIVER

ABSTRACT:

OYSTER SAMPLES WERE TAKEN IN JUNE AND JULY 1976 FROM TWO LOCATIONS IN THE CHESAPEAKE BAY--FROM THE MOUTH OF THE GREAT WICOMICO RIVER AND FROM THE TIP OF MULBERRY ISLAND IN THE JAMES RIVER. THE SAMPLES WERE ANALYZED FOR CADMIUM CONCENTRATIONS BY ATOMIC ABSORPTION SPECTROMETRY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN, McKELDIN LIBRARY 301-454-3035
MARYLAND ROOM
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

HERBICIDE ANALYSIS OF CHESAPEAKE BAY WATERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

ELEVEN STATIONS ALONG A LONGITUDINAL AXIS OF THE CHESAPEAKE BAY WERE SAMPLED DURING THE FIRST WEEK OF JUNE 1976. THE WATER SAMPLES WERE TESTED FOR THE HERBICIDES ALOCHLOR, ATRAZINE, AND SIMAZONE BY GAS CHROMATOGRAPY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN AUSTIN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1976 - PRESENT

PROJECTS:

BIOGEOCHEMISTRY OF TRACE METALS IN CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS ONGOING PROJECT CONCERNS BIOGEOCHEMICAL CYCLING OF TRACE ELEMENTS IN THE CHESAPEAKE BAY. IT ATTEMPTS TO QUANTIFY THE INPUTS OF METALS SUCH AS IRON, MANGANESE, ZINC AND COPPER INTO THE BAY AND STUDY THEIR DISTRIBUTION AND BEHAVIOR. THERE ARE FOUR SECTIONS TO THE PROGRESS REPORT. THEY ARE THE FATE OF PARTICLE - ASSOCIATED METALS IN THE CHESAPEAKE BAY, THE BEHAVIOR OF IRON IN THE POTOMAC RIVER ESTUARY, INVESTIGATIONS OF BOTTOM SEDIMENT COMPOSITION IN THE CHESAPEAKE BAY, AND INTERSTITIAL WATER INVESTIGATIONS. THE REPORT SUMMARIZES PAST RESEARCH IN THE FIELD AS WELL AS PRESENTS NEW DATA GENERATED FROM THE STUDY. SAMPLES ARE TAKEN FROM THE SUSQUEHANNA FLATS DOWN THE VERTICAL AXIS OF THE CHESAPEAKE BAY TO THE YORK RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

ANDREW EATON 301-338-8255
THE JOHNS HOPKINS UNIVERSITY, CHESAPEAKE BAY INSTITUTE
34TH AND CHARLES ST.
BALTIMORE, MD 21218

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

EFFECTS OF CHANNEL MAINTENANCE DREDGING OF CONTAMINATED SEDIMENTS ON ACCUMULATION OF THE PESTICIDE KEPONE BY BLUEGILL SUNFISH, CHANNEL CATFISH, AND A MACTRID CLAM.

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER

ABSTRACT:

THE STUDY WAS CONDUCTED IN THE JAMES RIVER NEAR THE BAY. TWO CONSECUTIVE 28-DAY LIVE-BOX STUDIES WERE CONDUCTED AT 5 STATIONS: ONE UPSTREAM FROM THE DREDGING, TWO NEAR THE DREDGING, AND TWO DOWNSTREAM FROM THE DREDGING. SAMPLES OF SEDIMENT, WATER AND THE BIOTA WERE TAKEN AT FOUR DAY INTERVALS. REPORT INCLUDES SEDIMENT AND WATER DATA FROM VIRGINIA STATE WATER CONTROL BOARD AND ARMY CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 804-786-0000
VIRGINIA COMMONWEALTH UNIVERSITY
910 WEST FRANKLIN STREET
RICHMOND, VA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: NOVEMBER 1976 TO DECEMBER 1976

PROJECTS:

KEPONE IN SOME DEEP CREEK SEDIMENT

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, DEEP CREEK

ABSTRACT:

EIGHT SEDIMENT SAMPLES TAKEN BY THE ARMY CORPS OF ENGINEERS WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR KEPONE LEVELS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

PROJECTS:

MONITORING OF THE UPPER CHESAPEAKE BAY FOR THE SYMETRICAL TRAZINE HERBICIDES ATRAZINE AND SIMAZINE

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, SUSQUEHANNA RIVER, POTOMAC RIVER

ABSTRACT:

THIS PROGRAM COLLECTED AND ANALYZED SURFACE WATER SAMPLES FROM THE UPPER CHESAPEAKE BAY AND THE POTOMAC RIVER ESTUARY FOR ATRAZINE AND SIMAZINE HERBICIDES. SAMPLES WERE COLLECTED MONTHLY DURING THE 1977 SEASON TO MEASURE SEASONAL VARIATIONS OF HERBICIDE CONCENTRATIONS IN SURFACE RUNOFF. SAMPLING WILL CONTINUE THROUGH THE 1978 APPLICATION SEASON. SAMPLES WERE COLLECTED ALONG THE LONGITUDINAL AXIS OF THE CHESAPEAKE BAY AT STATIONS ALONG THE EPA ANNAPOLIS FIELD OFFICE WATER QUALITY MONITORING NETWORK. USING THE MEAN DAILY FLOWS, DAILY LOADINGS WERE COMPUTED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN AUSTIN, JR. 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III
ENVIRONMENTAL PROTECTION AGENCY
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1978 - DECEMBER 1978

PROJECTS:

PATUXENT RIVER PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

THIS PROGRAM CONTAINS 21 TASKS AND WILL INCLUDE SUCH AREAS AS FISH DISTRIBUTION, BENTHIC MACROINVERTEBRATE DISTRIBUTION, SEDIMENT ANALYSES, WATER QUALITY, NON-POINT SOURCE ASSESSMENT OF POLLUTANT LOADINGS, BIOACCUMULATION OF TOXIC ORGANIC COMPOUNDS AND HEAVY METALS IN ESTUARINE ORGANISMS, AND FECAL COLIFORM DISTRIBUTIONS. DATA COLLECTED WILL BE DURING 1978. THE PROGRAM WILL GENERATE A SET OF DATA THAT REPRESENTS SEASONAL AND SPATIAL CHANGES IN THE PATUXENT RIVER SYSTEM. A LITERATURE AND DATA BASE SURVEY WILL BE CONDUCTED FOR THE PATUXENT RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PETER G. ROBERTSON 301-269-3677
MARYLAND DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MARYLAND 21403

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

ANNEX IV

Monitoring Programs

Toxics in the Chesapeake Bay

The 22 monitoring programs identified for toxics in the Chesapeake Bay form two categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 21 files.

Continuous monitoring programs initiated after January 1967 that have operated five (5) years or longer, but are presently not operational - 0 files.

Continuous monitoring programs initiated prior to January 1967 that have operated ten (10) years or longer and are presently not operational - 1 file.

The programs are arranged by date of initiation, earliest first.

MONITORING PROJECTS:
NPDES PERMIT COMPLIANCE MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:
THIS FILE CONTAINS POINT DISCHARGE TESTING DATA FROM AS EARLY AS 1946. BY THE MID-1960'S THE STATE WATER CONTROL BOARD HAD DEVELOPED A REGULAR MONITORING PROGRAM. IN 1972 NPDES UNDER PL 92-500 REPLACED THIS PROGRAM. EACH MAJOR DISCHARGER IS TESTED BY VSWCB AT LEAST ANNUALLY TO VERIFY THE DATA FROM THE DISCHARGER MONITORING REPORTS. MINOR DISCHARGERS SHOULD BE TESTED ANNUALLY. SOME PARAMETERS TESTED INCLUDE NUTRIENTS, HEAVY METALS, KEPONE AND OILS. THESE REPORTS ARE ON FILE WITH EACH OF THE RESPECTIVE DMR'S WHICH TOTAL APPROXIMATELY 4000 FILES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1962 TO PRESENT

MONITORING PROJECTS:

DELAWARE ESTUARY WATER QUALITY SURVEILLANCE PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON
NEW JERSEY

ABSTRACT:

SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA. TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTH- AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM. (DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
RESEARCH AND DEVELOPMENT DIVISION
1270 MSB 15TH AND JFK BLVD.
PHILADELPHIA, PENNSYLVANIA USA 19107

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III. PAGE 147.

MONITORING PROJECTS:

WATER RESOURCES DATA FOR PENNSYLVANIA, WATER QUALITY RECORDS

GENERAL GEOGRAPHIC AREA:

NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:

THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBONDIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

P. DEMARTE 717-782-4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG PENNSYLVANIA USA 17108

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 140.

DATA COLLECTED: JANUARY 1965 TO PRESENT

MONITORING PROJECTS:

FISH KILL INVESTIGATIONS IN MARYLAND WATERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:

REPORTED FISH KILLS IN MARYLAND WATERS ARE INVESTIGATED. WATER ANALYSES AND ANALYSES OF FISH FOR CAUSE OF DEATH ARE CONDUCTED. COUNTS, SIZES, SPECIES LISTS AND VALUES FOR FISHES INVOLVED ARE RECORDED. (SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

HOWARD KING 301-269-3783
MARYLAND DEPARTMENT OF NATURAL RESOURCES
FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND USA 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III PAGE 35

MONITORING PROJECTS:

MORGANTOWN STEAM ELECTRIC STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:

THIS REPORT (VOLUMES I AND II) SUMMARIZES THE RESULTS OF A 10-YEAR PERIOD (1966-1976) OF STUDIES. THEY WERE DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA ON THE AQUATIC ECOSYSTEM OF THE POTOMAC RIVER IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC STATION. THE REPORT INCLUDES HYDROTHERMAL DATA, CHEMICAL AND PHYSICAL DATA (SALINITY, TEMPERATURE, NUTRIENTS, DISSOLVED OXYGEN, pH, FREE DISSOLVED CARBON DIOXIDE, HEAVY METALS), PHYTOPLANKTON AND BACTERIOLOGICAL DATA, MACROINVERTEBRATE SURVEYS AND FISH SURVEYS. THE APPENDICES INCLUDE TWO STUDIES (1971 AND 1976) ON METALS IN OYSTERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 215-567-3700
THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
DIVISION OF LIMNOLOGY AND ECOLOGY
19TH AND THE PARKWAY
PHILADELPHIA, PA 19103

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1967 - PRESENT

MONITORING PROJECTS:

ENVIRONMENTAL CONTAMINANT MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, JAMES RIVER, POTOMAC RIVER, SUSQUEHANNA RIVER

ABSTRACT:

THIS ONGOING MONITORING PROGRAM IS A SUBPROGRAM OF THE NATIONAL PESTICIDE MONITORING PROGRAM AND HAS BEEN IN EXISTENCE SINCE 1967. THERE ARE THREE STATIONS ON TRIBUTARIES OF THE CHESAPEAKE BAY. THEY ARE ON THE POTOMAC RIVER, THE SUSQUEHANNA RIVER AND THE JAMES RIVER. PRIMARILY, FRESHWATER FISH ARE COLLECTED. THIS IS DONE ONCE A YEAR. SPECIES ARE ANALYZED FOR RESIDUES OF DDT, DDE, DDD, ENDRIN, DIELDRIN, ALDRIN, CHLORDANE, LINDANE, HEPTACHLOR, HEPTACHLOR EPOXIDE, AND TOTAL PCBS. FIVE METALS INCLUDING SELENIUM, ARSENIC, LEAD, CADMIUM AND MERCURY ARE ALSO ANALYZED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LARRY LUDKE 314-442-3101
COLUMBIA NATIONAL FISHERIES RESEARCH LABORATORY
U.S. FISH AND WILDLIFE SERVICE
ROUTE 1
COLUMBIA, MISSOURI 65201

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

MONITORING PROJECTS:

CHEMICAL, BACTERIOLOGICAL AND PHYSICAL STUDY ON THE CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS, MARYLAND

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:

WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION, MARYLAND ARE ANALYZED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) IN THE FORM OF YEARLY CONTRACT REPORTS BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

N. G. LASSAHN 301-234-6188
BALTIMORE GAS AND ELECTRIC COMPANY
1020 GAS AND ELECTRIC BUILDING
LEXINGTON AND LIBERTY STREETS
BALTIMORE MARYLAND USA 21203

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III PAGE 103.

DATA COLLECTED: OCTOBER 1969 TO PRESENT

MONITORING PROJECTS:

HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEY

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER,
CALVERT CLIFFS AREA, MARYLAND

ABSTRACT:

HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEYS ARE CONDUCTED BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY IN THE VICINITY OF THREE POWER GENERATING STATIONS IN MARYLAND. THEY ARE THE CHALK POINT STATION ON THE PATUXENT RIVER, THE MORGANTOWN GENERATING STATION ON THE POTOMAC RIVER AND THE CALVERT CLIFFS NUCLEAR GENERATING STATION ON THE CHESAPEAKE BAY. THE CONTRACT AGENCIES ARE THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) FOR THE CALVERT CLIFFS STATION AND THE POTOMAC ELECTRIC POWER COMPANY (PEPCO) FOR BOTH THE CHALK POINT AND THE MORGANTOWN STATIONS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 62.

MONITORING PROJECTS:

SEDIMENT ANALYSES FOR HEAVY METALS

GENERAL GEOGRAPHIC AREA:

U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, MORGANTOWN

ABSTRACT:

THIS ONGOING PROGRAM MONITORS HEAVY METALS IN POTOMAC RIVER SEDIMENTS NEAR THE MORGANTOWN STEAM ELECTRIC GENERATING STATION. WORK IS DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY FOR THE POTOMAC ELECTRIC POWER COMPANY (PEPCO).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

STEVEN GUILAND 202-872-2543
POTOMAC ELECTRIC POWER COMPANY
1900 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C. USA 20006

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 60.

DATA COLLECTED: 1970 - PRESENT

MONITORING PROJECTS:

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:

THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM BEGAN IN 1970 TO MONITOR THE AREA AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT ON THE CHESAPEAKE BAY. EACH YEAR APPROXIMATELY 1500 ANALYSES ARE PERFORMED ON 800 ENVIRONMENTAL SAMPLES FROM THE AQUATIC, ATMOSPHERIC AND TERRESTRIAL ENVIRONMENTS. SOME OF THE PARAMETERS MEASURED INCLUDE TRITIUM, STRONTIUM-89, STRONTIUM-90 AND GROSS ALPHA, BETA AND GAMMA EMITTING NUCLIDES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

STEVEN LONG 301-269-2261
MARYLAND DEPARTMENT OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

MONITORING PROJECTS:
SHELLFISH SANITATION PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS ONGOING SHELLFISH MONITORING PROGRAM BEGAN IN 1971. SAMPLING IS DONE AT 1500 STATIONS AROUND THE CHESAPEAKE BAY AND ITS TRIBUTARIES AT LEAST ONCE A MONTH. SAMPLES ARE ANALYZED FOR TEMPERATURE, SALINITY, DISSOLVED OXYGEN, FECAL COLIFORM AND TOTAL COLIFORM. SHELLSTOCK AND FINFISH ARE COLLECTED ROUTINELY AND ANALYZED FOR HEAVY METAL, PESTICIDE, CHLORINATED HYDROCARBON, BACTERIAL AND ORGANIC CHEMICAL CONCENTRATIONS. BOATS ARE COLLECTING SAMPLES FOUR DAYS A WEEK, 50 WEEKS A YEAR.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

MAX EISENBERG 301-383-2365
MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE
201 W. PRESTON STREET, P.O. BOX 13387
BALTIMORE, MD 21201

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1972 TO PRESENT

MONITORING PROJECTS:

DISCHARGER MONITORING REPORTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:

THESE REPORTS ARE REQUIRED AS PART OF THE NPDES PROGRAM UNDER PL 92-500 INITIATED IN 1972. MUNICIPAL AND INDUSTRIAL DISCHARGERS SELF-TEST THEIR OWN EFFLUENT TO MONITOR SUCH PARAMETERS AS NUTRIENTS, HEAVY METALS, KEPONE AND OILS WITH VARYING FREQUENCIES ASSIGNED EACH PARAMETER. APPROXIMATELY 4000 FILES ARE NOW ACTIVE AND ARE ADMINISTERED BY THE STATE FOR EPA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BAORD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

MONITORING PROJECTS:

HEAVY METALS IN COASTAL FISHES OF NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:

HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

RICHARD BARBER 919-728-2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT, NORTH CAROLINA 28516

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 119.

DATA COLLECTED: APRIL 1972 TO PRESENT

MONITORING PROJECTS:

PCB'S AND PESTICIDES IN STRIPED BASS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, NANTICOKE AND CHOPTANK RIVERS

ABSTRACT:

PESTICIDES AND PCB'S IN STRIPED BASS EGGS WERE ANALYZED. 24 FISH WERE ALSO COLLECTED FROM THE NANTICOKE AND CHOPTANK RIVERS, MARYLAND DURING SPAWNING SEASON IN 1972 AND 1973. BACKGROUND LEVELS WERE SOUGHT AND POSSIBLE EFFECTS ON SUCCESS OF SPAWNING WERE EVALUATED. SPORADIC SAMPLING HAS BEEN DONE SINCE. (ANALYSES PERFORMED BY EPA GULF BREEZE LAB, USFW SERVICE LAB IN COLUMBIA MISSOURI, AND WESTINGHOUSE OCEAN ENGINEERING CENTER)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOSEPH BOONE 301-269-3785
MARYLAND DEPARTMENT OF NATURAL RESOURCES
FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND USA 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 39.

MONITORING PROJECTS:

NATIONAL ESTUARINE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS PROGRAM MONITORS TRENDS OF HEAVY METALS AND PESTICIDE CONTAMINATION IN JUVENILE FISH. TRAWLS ARE LOCATED AT THE MOUTHS OF MAJOR TRIBUTARIES TO THE BAY INCLUDING THE FOLLOWING RIVERS: SUSQUEHANNA, PATUXENT, PATAPSCO, CHOPTANK, POTOMAC, RAPPAHANNOCK, YORK, JAMES, SOUTH, MAGOTHY AND ELK. SAMPLES ARE TAKEN AT 6 MONTH INTERVALS AND AT LEAST 2 SPECIES OF FISH ARE COLLECTED. SAMPLES ARE ANALYZED FOR CHLORINATED PESTICIDES, ORGANO-PHOSPHATE PESTICIDES, PCB'S, PHENOXYHERBICIDES, LEAD, CADMIUM AND MERCURY. THE PROGRAM WILL RESUME IN FY 1978.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

PHILIP BUTLER 904-932-5311
EPA ENVIRONMENTAL RESEARCH LABORATORY
SABINE ISLAND
GULF BREEZE, FLORIDA 32561

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1974 - PRESENT

MONITORING PROJECTS:

TREND AMBIENT SURFACE WATER QUALITY MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

WATER QUALITY MONITORING HAS BEEN DONE THROUGHOUT THE CHESAPEAKE BAY AND ITS TRIBUTARIES SINCE 1974 TO ESTABLISH TRENDS. SAMPLES ARE COLLECTED MONTHLY AND ANALYZED FOR APPROXIMATELY 20 WATER QUALITY PARAMETERS. THERE ARE 150 STATIONS WITH 16 OF THEM RUNNING LONGITUDINALLY UP THE CENTER OF THE BAY. PRINTOUTS OF THE DATA ARE AVAILABLE IN ANNUAL TREND DATA REPORTS FROM 1975 THROUGH THE PRESENT. A SUMMARY REPORT FOR DATA FROM 1966-1974 IS AVAILABLE. ALSO AVAILABLE IS A PRINTOUT SUMMARIZING THE MASTER SAMPLING STATIONS AND WATER QUALITY DATA INVENTORY. THE DATA FROM 1966-1974 WAS NOT COLLECTED OR ANALYZED ON A REGULAR BASIS FOR THE 20 PARAMETERS. LITTLE DATA EXISTS ON HEAVY METALS, PESTICIDES AND OIL AND GREASE. IT IS POSSIBLE THAT THESE PARAMETERS MAY BE MEASURED ON AN ANNUAL BASIS IN THE FUTURE.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-269-3677
MARYLAND WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

MONITORING PROJECTS:

OCEAN DISPOSAL SITE OFF THE COAST OF MARYLAND

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN

ABSTRACT:

THE ENVIRONMENTAL PROTECTION AGENCY HAS BEEN COLLECTING DATA SINCE MARCH 1974 FROM TWO OCEAN DISPOSAL SITES APPROXIMATELY 60 MILES OFF THE COAST OF MARYLAND. THE PARAMETERS INCLUDED IN THIS STUDY ARE: ALUMINUM, CADMIUM, CHROMIUM, COBALT, COPPER, IRON, LEAD, MANGANESE, NICKEL, SILVER, TITANIUM, VANADIUM AND ZINC IN BOTH THE SEDIMENT AND ORGANISMS. MEASUREMENTS OF METALS IN CLAMS AND SCALLOPS ARE SEPARATED BY MUSCLE AND ORGANS. OTHER PARAMETERS INCLUDED ARE: SPECIES DETERMINATION OF BENTHIC ANIMALS, WEIGHT OF BENTHIC ANIMALS AND LENGTH OF BENTHIC ANIMALS. THE PROJECT WAS INITIATED BY DR. D. K. PHELPS OF THE EPA ENVIRONMENTAL RESEARCH LABORATORY IN NARRAGANSETT, RHODE ISLAND BUT WAS TRANSFERRED TO THE EPA ANNAPOLIS FIELD OFFICE IN 1977.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DON LEAR 301-224-2740
ENVIRONMENTAL PROTECTION AGENCY, REGION III
ANNAPOLIS FIELD OFFICE
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 162.

DATA COLLECTED: JUNE 1974 TO PRESENT

MONITORING PROJECTS:

HEAVY METALS MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, JAMES, YORK, POTOMAC RIVERS, WILBY BAY

ABSTRACT:

SAMPLES OF OYSTERS ARE OBTAINED FROM 40 STATIONS IN THE LOWER CHESAPEAKE BAY AND ITS TRIBUTARIES AND ANALYZED FOR CU, CD, ZN, HG AT SIX MONTH INTERVALS. THE PROGRAM ATTEMPTS TO MONITOR SHELLFISH CONTAMINATION IN VIRGINIA WATERS BY HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVERNOR STREET
RICHMOND, VA 23219

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III. PAGE 93.

MONITORING PROJECTS:
PESTICIDE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, VA. TIDAL RIVERS AND BAYS

ABSTRACT:
OYSTERS OBTAINED AT SIX MONTH INTERVALS FROM 18 STATIONS LOCATED IN TIDAL TRIBUTARIES AND BAYS OF VIRGINIA ARE ANALYZED FOR DDT, DDE, DDD, DIELDRIN, PCB'S. THE DATA IS USED TO MONITOR SHELLFISH CONTAMINATION BY THE CHEMICALS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVERNOR STREET
RICHMOND, VA 23219

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 95.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

MONITORING PROJECTS:

KEPONE MONITORING STUDY IN VIRGINIA WATERS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:

THE VIRGINIA STATE WATER CONTROL BOARD IS MONITORING KEPONE LEVELS IN SEDIMENT, WATER AND FISH. WATER AND SEDIMENT SAMPLES ARE TAKEN FROM 55-60 STATIONS IN THE JAMES RIVER AND ITS TRIBUTARIES WHILE THE FISH ARE SAMPLED FROM 15 ZONES IN THE JAMES AND LOWER CHESAPEAKE BAY - ALL WITH VARYING FREQUENCY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

MONITORING PROJECTS:
KEPONE MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER, LOWER CHESAPEAKE BAY

ABSTRACT:
THIS PROGRAM MONITORS KEPONE LEVELS IN SHELLFISH AND CRABS IN THE JAMES RIVER AND LOWER CHESAPEAKE BAY ON A MONTHLY BASIS. SAMPLING OF SHELLFISH AT 10 STATIONS BEGAN IN DECEMBER 1975. SAMPLING OF CRABS AT 15-20 STATIONS AND 15 CRAB PLANTS BEGAN IN SPRING 1976.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVERNOR STREET
RICHMOND, VA 23219

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1976 - PRESENT

MONITORING PROJECTS:

RURAL NON-POINT POLLUTION STUDIES IN MARYLAND

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SEVERN RIVER,
CHOPTANK RIVER, POPLAR ISLANDS

ABSTRACT:

ACTIVITY BEGAN IN 1976. DATA ON HERBICIDE AND FERTILIZER APPLICATION, SOIL CHEMISTRY, VOLUME AND COMPOSITION OF RUNOFF WATERS, RAINFALL, SOIL MOISTURE AND TEMPERATURE, PLANT GROWTH, NUTRIENT REMOVAL, SOIL COVERAGE BY PLANTS, SOIL EROSION RATES, SOIL MINERALOGY AND PARTICLE SIZE DISTRIBUTION WAS OBTAINED. RUNOFF SAMPLES FROM 8 BASIN-SIZED WATERSHEDS WERE ANALYZED FOR CATION AND HERICIDE CONCENTRATIONS. HERBICIDE CONCENTRATIONS IN WATER, SUSPENDED SEDIMENTS AND BOTTOM SEDIMENTS WERE MEASURED AS WELL AS TURBIDITY, SALINITY, PHYTOPLANKTON CHLOROPHYLL CONCENTRATIONS AND BOTTOM SEDIMENT CHARACTERISTICS. SUBMERGED VEGETATION POPULATION STUDIES WERE DONE IN THE FIELD. LAB ASSAYS WERE PERFORMED ON LINURON AND ATRAZINE TOXICITY EFFECTS ON SUBMERGED VEGETATION. FIVE FIELD STATIONS WERE SAMPLED MONTHLY ON THE RHODE RIVER, 8 STATIONS ON THE CHOPTANK RIVER AND 4 STATIONS AROUND THE POPLAR ISLANDS WERE SAMPLED FOUR TIMES A YEAR. SIX STATIONS ON THE SEVERN RIVER WERE SAMPLED ONCE.

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION, CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, P.O. BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.