8-1978

Chesapeake Bay Baseline Data Acquisition Appendix VI: Dredging and Spoil Disposal

Chesapeake Research Consortium, Incorporated

University of Maryland, Center for Environmental and Estuarine Studies

Virginia Institute of Marine Science

APPENDIX VI

DREDGING AND SPOIL DISPOSAL

A Report
under EPA Contract No. 68-01-3994

August 1978

Chesapeake Research Consortium, Incorporated

prepared by

University of Maryland,
Center for Environmental and Estuarine Studies

and

Virginia Institute of Marine Science

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Virginia Institute of M

CHESAPEAKE BAY BASELINE DATA ACQUISITION

DREDGING AND SPOIL DISPOSAL

Contract No. 68-01-3994

between

U. S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

August 1978

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1419 Forest Drive, Suite 207
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University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

CONTENTS

INTRODUCTION

This report forms one of several appendices which are the body of the Chesapeake Bay Baseline Data Acquisition Final Report. These appendices are as follows:

Appendix I. A Chesapeake Bay Directory

Appendix II. Submerged Aquatic Vegetation

Appendix III. Toxics in the Cheasapeake Bay

Appendix IV. Eutrophication

Appendix V. Shellfish Bed Closures

Appendix VI. Dredging and Spoil Disposal

Appendix VII. Modification of Fisheries

Appendix VIII. Hydrologic Modifications

Appendix IX. Wetlands Alteration

Appendix X. Effects of Boating and Shipping on Water Quality

Appendix XI. Shoreline Erosion

This report comprises three sections as follows:

Annex I. contains scientists presently engaged in research in this field.

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

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

The source material for appendices IV-XI includes minimal material based on interviews, field work and verification. Efforts were directed to determining researchers and their activities from "A Chesapeake Bay Directory" only. For each of the eight subject areas, a key word list was also formulated and the respective pertinent data files compiled from the Environmental Data Base Directory. These files served as the primary source for the monitoring programs section.

ANNEX I

Directory of Researchers

Dredging and Spoil Disposal

This "Directory of Researchers" contains a listing of scientists who are presently working in this field, their affiliations and their specific research activities. The information was compiled from "A Chesapeake Bay Directory" by A. McErlean et al. 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 Point, VA 23062

ANNEX I

Directory of Researchers

Dredging and Spoil Disposal

Bender, M. E. Virginia Institute of Marine Science	Water quality criteria for aquatic life - Chesapeake Bay.
Benfield, E. F. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Biggs, R. B. University of Delaware	Dredging and spoil disposal.
Birkner, F. B. University of Maryland	Precious metals in dredge spoils.
Boesch, D. F. Virginia Institute of Marine Science	Benthic ecology.
Boon, J. D., III Virginia Institute of Marine Science	Littoral processes, hydrodynamics of coastal inlets.
Byrne, R. J. Virginia Institute of Marine Science	Beach erosion studies, sediment processes.
Cargo, D. G. Chesapeake Biological Laboratory, University of Maryland	Estuarine ecology of benthic invertebrates - Chesapeake Bay.
Casey, J. F. Fisheries Administration, Maryland Department of Natural Resources	Effects of dredge-and-fill on fish - Chesapeake Bay.
Castagna, M. Virginia Institute of Marine Science	Natural history of mollusks.
Dauer, D. M. Old Dominion University	Ecology of marine benthic invertebrates.

Diaz, R. J. Virginia Institute of Marine Science	Invertebrate ecology.
Gross, M. G. Chesapeake Bay Institute, The Johns Hopkins University	Sediments and wastes in coastal and ocean environments - Chesapeake Bay.
Gucinski, H. Anne Arundel Community College	Ocean dumping.
Haven, D. S. Virginia Institute of Marine Science	Physiology of mollusks - Chesapeake Bay.
Hedgepeth, M. Y. Virginia Institute of Marine Science	Ichthyology.
Hiegel, M. H. Chesapeake Biological Laboratory, University of Maryland	Benthic invertebrates - Chesapeake Bay.
Hoffman, J. F. United States Naval Academy	Pollution of the water column over dredge disposal areas.
Huggett, R. J. Virginia Institute of Marine Science	Heavy metals, pesticides, oil pollution, water quality criteria - Chesapeake Bay.
Johnston, M. Horn Point Environmental Laboratories, University of Maryland	Recolonization patterns in areas altered by dredging and spoil disposal - Chesapeake Bay.
Kennedy, V. S. Horn Point Environmental Laboratories, University of Maryland	Benthic ecology - Chesapeake Bay.
Kraeuter, J. N. Virginia Institute of Marine Science	Invertebrate ecology.
Lee, H. Horn Point Environmental Laboratories, University of Maryland	Benthic ecology - Chesapeake Bay.

Mangum, C. P. College of William and Mary	Invertebrate biology under stress conditions.
Matta, J. F. Old Dominion University	Ecology and systematics of aquatic invertebrates.
Merriner, J. V. Virginia Institute of Marine Science	Ecology of estuarine fishes.
Mollick, R. S. Christopher Newport College	Benthic invertebrate ecology.
Mountford, N. K. Chesapeake Biological Laboratory, University of Maryland	Benthic invertebrates - Chesapeake Bay.
Orth, R. J. Virginia Institute of Marine Science	Submerged aquatic vegetation - Chesapeake Bay.
Pfitzenmeyer, H. T. Chesapeake Biological Laboratory, University of Maryland	Benthic invertebrate ecology - Chesapeake Bay.
Pierce, S. K. University of Maryland	Physiological and biochemical interactions between marine invertebrates and their environments.
Schubel, J. R. State University of New York, Stony Brook, New York	Man's impact on estuarine sedimentation.
Serafy, D. K. Virginia Institute of Marine Science	Benthic ecology.
Simmons, G. M., Jr. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Van Engel, W. A. Virginia Institute of Marine Science	Biology of crustacea.
Wass, M. L. Virginia Institute of Marine Science	Benthic ecology.

Woodin, S. The Johns Hopkins University	Benthic ecology.
Ziegler, J. M. Virginia Institute of Marine Science	Erosion, nearshore circulation.

ANNEX II

Data Files

Dredging and Spoil Disposal

ANNEX II

Data Files

Part A

Data Files

Dredging and Spoil Disposal

The data files included in this section are arranged by EDBD accession number. This number should be used in inquiries to EDBD or in specific citations of files. However, for the purposes of this report, these files were assigned unique page numbers.

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

THE ENCLOSED LISTING IS A SELECTION OF FILE DESCRIPTIONS FROM THE ENDEX 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 NUBMER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740825 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.

004

THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUT 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:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL, MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:
WITH REQUEST AND COST OF DUPLICATION

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
2 STANDARD FILE DRAWERS

FUNDING:
BSFW DINGELL-JOHNSON ACT AND MARYLAND DNR, PROJECT MD F 24 R

INVENTORY:

PUBLICATIONS:

CONTACT:
W.R. CARTER 301-267-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730786 730796

900

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	648	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	648	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	YSI MODEL 54
SULFATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN LAB MODEL
PHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	240	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION A. SILICON DIOXIDE	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HELLIGE
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	0 PT 1 METERS	1296	OBS	2 TIMES PER MONTH		
DEPTH	WATER	WIRE LENGTH	FEET	1296	OBS	2 TIMES PER MONTH	BOTTOM	
BOTTOM TYPE	BOTTOM	VISUAL	SAND, MUD, SILT, MI D	1296	OBS	2 TIMES PER MONTH	BOTTOM	
BATHYMETRY	WATER	LEAD LINE	CROSS SECTION AREA IN SQ FT	540	OBS			STREAM PROFILE
WEIGHT OF BENTHIC PLANTS	BOTTOM	WET WEIGHT	PER SQ FT IN TRANSECT	540	OBS	2 TIMES		SAMPLE EVERY THIRD FOOT ON TRANSECT
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	INTERCEPTE INCHES ON TRANSECT	540	OBS	2 TIMES	BOTTOM	10 TRANSECTS ON 27 STREAMS
CURRENT SPEED	WATER	IMPELLOR METER	FT PER SECOND	540	OBS	2 TIMES		SEASONAL READINGS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	AVERAGE NUMBER PER AREA	540	OBS	2 TIMES		SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER GENUS	540	OBS	2 TIMES		SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	RANK ANALY IS	54	OBS			BENTHIC ANIMALS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER PER SPECIES P R AREA, SPE IES LIST	27	OBS			100 FOOT ROTENONE SAMPLE
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER PER SPECIES P R AREA, SPECIES LIST	27	OBS			100 FOOT ROTENONE SAMPLE
COUNT OF DEMERSAL FISH	WATER	VISUAL	AVERAGE NU BER PER AREA	27	OBS			
COUNT OF PELAGIC FISH	WATER	VISUAL	AVERAGE NU BER PER AREA	27	OBS			
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	RANK ANALY IS	27	OBS			FISH COMMUNITY
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS	5000	OBS			ALL GAME FISHES
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	GRAMS	5000	OBS			ALL GAME FISHES
AGE DATING OF	WATER	SCALES	YEARS	5000	OBS			ALL GAME FISHES

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DEMERSAL FISH							

DATA COLLECTED: JANUARY 1966 TO DECEMBER 1968 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

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

ABSTRACT:
TO DETERMINE THE EFFECTS ON THE BENTHOS OF CHANNEL DREDGING AND OVERBOARD SPOIL DISPOSAL, STATIONS IN THE UPPER CHESAPEAKE BAY WERE BOTTOM SAMPLED FOR BENTHIC ANIMALS AND SEDIMENT.
(DATA AVIALABLE IN REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR. SPECIES DIVERSITY, BIOMASS, CALCULATIONS PRESENTED IN FINAL REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAYES T. PFITZENMEYER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	59 STATIONS			29 UPPER BAY STATIONS, 30 DREDGE DISPOSAL AREA STATIONS
TIME	EARTH	STATION TIME	YMD	710 OBS			UPPER BAY STATIONS SAMPLED QUARTERLY BEGINNING JAN 1966; DISPOSAL AREA STATIONS SAMPLED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT SAND, SILT AND CLAY	120	OBS			BIMONTHLY BEGINNING SEPT 1966 SEDIMENT SAMPLES TAKEN AT SELECTED DISPOSAL AREA STATIONS BEFORE AND AFTER DREDGING OPERATION
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	710	OBS	QUARTERLY OR BIMONTHLY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES	710	OBS	QUARTERLY OR BIMONTHLY		
ORGANIC CARBON	SEDIMENT	ASH WEIGHT	PERCENT ORGANIC CARBON	13	OBS			SAMPLES OF FIRST FIVE CENTIMETERS OF SEDIMENT WERE TAKEN AT SELECTED STATIONS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500	OBS		SURFACE	SELECTED STATIONS
TEMPERATURE	WATER	THERMISTOR	DEGREES CENTIGRADE	500	OBS		SURFACE	SELECTED STATIONS

DATA COLLECTED: NOVEMBER 1965 TO NOVEMBER 1967 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

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

ABSTRACT:
PHYTOPLANKTON PRODUCTIVITY, CHLOROPHYLL A, AND LIGHT TRANSPARENCY WERE MEASURED AT 29 STATIONS IN THE UPPER CHESAPEAKE BAY FOR TWO YEARS. OBJECTIVES WERE TO ASCERTAIN ANY DIRECT GROSS EFFECTS OF DREDGING AND SPOIL DISPOSAL ON PHYTOPLANKTON AND TO PROVIDE BACKGROUND DATA FOR PREDICTION OF EFFECTS OF FUTURE DISPOSAL.
(DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID A FLEMER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
76 46

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	29	STATIONS			
TIME	EARTH	STATION TIME	YMD	2400	OBS	BIWEEKLY		
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	EXTINCTION COEFFICIENTS	2400	OBS	BIWEEKLY		SUBMARINE PHOTOMETER USED
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	2400	OBS	BIWEEKLY		COMPARED TO PHOTOMETER VALUES
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	MG C PER M3 PER HOUR	500	OBS	BIWEEKLY		ONE SHALLOW WATER AND CHANNEL STATION IN EACH TRANSECT

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHLOROPHYLL A	WATER	FLUOROMETRY	MG PER M3	5000	OBS	BIWEEKLY	SURFACE TO BOTTOM	FROM APRIL 1966 TO AUGUST 1967 SURFACE AND THREE METER INTERVALS TO BOTTOM

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

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

ABSTRACT:
TEMPERATURE, SALINITY AND PARTICULATE MATTER OBSERVATIONS WERE OBTAINED AT BIWEEKLY INTERVALS FROM TWENTY-EIGHT STATIONS IN UPPER CHESAPEAKE BAY FOR USE IN MEASURING THE SOURCES AND FATE OF SUSPENDED MATERIALS. INTENSIVE SAMPLING WAS CONDUCTED DURING PERIODS OF DREDGED SPOIL DISPOSAL.
(IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR. BOTTOM SEDIMENT DATA PROVIDED BY CORPS OF ENGINEERS FROM DEPTH SURVEYS 4 AND 180 DAYS AFTER COMPLETION OF DISPOSAL IN DUMPING AREA, 1966)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
SEVERAL REPORTS AND FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT B BIGGS 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
NATURAL RESOURCES INSTITUTE
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
700796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	28	STATIONS			
TIME	EARTH	STATION TIME	YMD	850	OBS	BIWEEKLY		FIVE TRANSECTS PLUS SEVERAL ADDITIONAL STATIONS
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	2500	OBS	BIWEEKLY		THREE METER INTERVALS, SURFACE TO BOTTOM AT EACH STATION
TEMPERATURE	WATER	THERMISTOR	DEG C	2500	OBS	BIWEEKLY		THREE METER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								INTERVALS, SURFACE TO BOTTOM AT EACH STATION
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	PARTS PER MILLION	2500	OBS	BIWEEKLY		THREE METER INTERVALS SURFACE TO BOTTOM; 0.2 U FILTER USED
PARTICULATE MATTER	WATER	OPTICAL AND ELECTRICAL	PERCENT TRANSMISSION	19	OBS		1 AND 3 METER DEPTHS	SAMPLES PUMPED CONTINUOUSLY FROM TWO DEPTHS WHILE VESSEL STEAMED ACROSS BUOYED TRANSECTS, LIGHT TRANSMISSION MEASURED AT 30 SECOND INTERVALS. THIS WAS DONE DURING TWO PERIODS OF DREDGED SPOIL DISCHARGE

DATA COLLECTED: AUGUST 1966 TO JULY 1968 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOS . .PPER CHESAPEAKE BAY

.ERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COVE POINT TO TURKEY POINT

ABSTRACT:
STANDING CROPS OF ZOOPLANKTON WERE MEASURED AT NINE STATIONS IN THE NORTHERN CHESAPEAKE BAY. DATA WAS GATHERED TO DESCRIBE BIOTA AND ECOLOGICAL DYNAMICS OF THE REGION AND TO DETERMINE GROSS EFFECTS OF DREDGING AND OVERBOARD SPOIL DISPOSAL. (DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR IN ADDITION TO OBLIQUE TOWS, MACROPLANKTON SAMPLING AND VERTICAL DISTRIBUTION TOWS WERE CARRIED OUT DURING PARTS OF THE STUDY)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
FRANK GOODWYN, JR 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
NATURAL RESOURCES INSTITUTE
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	9	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMD	200	OBS	MONTHLY		STATIONS ARE ALONG THE MIDDLE OF THE BAY FROM COVE POINT TO TURKEY POINT
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS	200	OBS	MONTHLY		OBLIQUE TOWS FROM BOTTOM TO SURFACE USING 5 INCH CLARKE-BUMPUS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES NUMBER	200	OBS	MONTHLY		PLANKTON SAMPLER OBLIQUE TOWS FROM BOTTOM TO SURFACE USING 5 INCH CLARKE-BUMPUS PLANKTON SAMPLER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	200	OBS	MONTHLY	SURFACE AND BOTTOM	
TEMPERATURE	WATER	THERMISTOR	DEG C	200	OBS	MONTHLY	SURFACE AND BOTTOM	

DATA COLLECTED: MAY 1966 TO NOVEMBER 1968 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

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

ABSTRACT:
EGGS, LARVAE AND JUVENILES OF ESTUARINE FISHES WERE SAMPLED BIWEEKLY, AT FOURTEEN UPPER CHESAPEAKE BAY STATIONS, OVER A TWO YEAR PERIOD. THE PURPOSE OF THE INVESTIGATION WAS TO DESCRIBE ORGANISM ABUNDANCE, DISTRIBUTION AND MOVEMENT AND TO MONITOR ANY POSSIBLE EFFECTS OF DREDGING AND SPOIL DISPOSAL ACTIVITIES.
(DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WILLIAM L DOVEL 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
NATURAL RESOURCES INSTITUTE
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	14	STATIONS			
TIME	EARTH	STATION TIME	YMD	800	OBS	BIWEEKLY		
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	FISH EGGS AND LARVAE ONLY; ONE-METER PLANKTON NET TOWS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	FISH EGGS AND LARVAE ONLY; ONE-METER PLANKTON NET TOWS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	LARVAE AND JUVENILES
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	LARVAE AND JUVENILES
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	MILLIMETERS	1600	OBS	BIWEEKLY	SURFACE AND BOTTOM	LARVAE AND JUVENILES

DATA COLLECTED: AUGUST 1965 TO JULY 1968 RECEIVED: JANUARY 01, 1976

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

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

ABSTRACT:
TEN STATIONS IN THE UPPER CHESAPEAKE BAY WERE SAMPLED MONTHLY BY OTTER TRAWL TO DETERMINE COMPOSITION OF ADULT FISH FAUNA, AND TO DETERMINE ANY GROSS BENEFIT TO FISH BIOTA BY DREDGING OR SPOIL DISPOSAL ACTIVITIES.
(DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE. DATA INCLUDED FROM PERIODIC DRIFT AND ANCHOR GILL NETTING)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS

FUNDING:
U.S. BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:
CRONIN, L.E, R.B. BIGGS, D.A. FLAMEE, H.T. PFITZENMGES, J.M. O'DELL, F. GOODWYN,JR., W.L. DOREL, AND D.E. RICHIE,JR., 1970, FINAL REPORT TO THE U.S. BUREAU OF SPORT FISHERIES AND WILDLIFE UNDER CONTRACT 14-16-0005-2096 ON PROJECT: GROSS PHYSICAL AND BIOLOGICAL EFFECTS OF OVERBOARD SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY. NRI SPEC. REPORT 3, 66P.

CONTACT:
DOUG RITCHIE 301 326 4281 X20
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS			
TIME	EARTH	STATION TIME	YMD	350	OBS	MONTHLY		
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	350	OBS	MONTHLY		OTTER TRAWLING
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	350	OBS	MONTHLY		OTTER TRAWLING
SPECIES DETERMINATION OF DEMERSAL	WATER	KEY	SPECIES NUMBER	350	OBS	MONTHLY		OTTER TRAWLING

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
FISH SPECIES DETERMINATION BIOLOGIC	WATER	KEY	SPECIES NUMBER	350	OBS	MONTHLY		OTTER TRAWLING

020

DATA COLLECTED: JANUARY 19[illegible] TO DECEMBER 1956 RECEIVED: MAY 16, 1973

PROJECTS:

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

ABSTRACT:
THE EFFECT ON OYSTER CULTURE (CRASSOSTREA VIRGINICA) OF DREDGING FOR A BRIDGE-TUNNEL IN THE CHESAPEAKE BAY. ONE OF 2 STATIONS WERE SAMPLED BIWEEKLY FOR 48 MONTHS. DATA APPEARS IN VIMS SPECIAL SCIENTIFIC REPORT NO 12

DATA AVAILABILITY:
OPEN FILE, COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
VIMS SPECIAL SCIENTIFIC REPORT NO 12 FOR 10 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 12

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

GRID LOCATOR (LAT):
730766

021

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS	ONE STATION EVERY TWO WEEKS		
TIME	EARTH	STATION TIME	YMDL	104	OBS	ONE STATION EVERY TWO WEEKS		
MORTALITY OF BENTHIC ANIMALS	BOTTOM	VISUAL	PERCENT OF TOTAL	150	OBS	ONE STATION EVERY TWO WEEKS		CRASSOSTREA VIRGINICA
BIOLOGICAL CONDITION OF BENTHIC ANIMALS	BOTTOM	VISUAL	ARBITRARY UNITS	150	OBS	ONE STATION EVERY TWO WEEKS		CRASSOSTREA VIRGINICA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	150 OBS	ONE STATION EVERY TWO WEEKS		CRASSOSTREA VIRGINICA

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, TASKINAS CREEK

ABSTRACT:
BIOMASS AND ANNUAL YIELD PER ACRE, SPECIES DETERMINATION AND BODY LENGTH WERE RECORDED FOR BENTHIC PLANTS IN THE TASKINAS CREEK, VIRGINIA DURING OCTOBER 1972. WATER SAMPLES WERE ANALYZED FOR SALINITY AND TOTAL ORGANIC CARBON, AND THE WATER TRANSPORT RATE OF THE CREEK WAS MEASURED. THE RESULTS OF THE STUDY ARE AVAILABLE ON DATA SHEETS FROM VIMS, ALONG WITH COMMENTS ON WILDLIFE USEAGE.
(DATA CONTAINS COMMENTS ON WILDLIFE USAGE)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
62 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
KENNETH MARCELLUS 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

023

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	YMDL	1	STATIONS			
SPECIES. DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF SPECIES PER MARSHLAND AREA	1	OBS			MARSH PLANTS
BIOMASS OF BENTHIC PLANTS	LAND	DRY WEIGHT	TONS PER ACRE	1	OBS			MARSH PLANTS
YIELD OF BENTHIC PLANTS	LAND	CROPPING	TONS PER ACRE PER YEAR	1	OBS			MARSH PLANTS
LENGTH OF BENTHIC PLANTS	LAND	DIRECT	METERS	1	OBS			MARSH PLANTS
ORGANIC CARBON	WATER	WET COMBUSTION/	MG PER LITER	28	OBS		FOURTEEN	TWO TIDAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
		INFRARED SPECTROMETRY					HOURLY SAMPLES PER TIDAL CYCLE	CYCLES SAMPLED
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	28	OBS		FOURTEEN HOURLY SAMPLES PER TIDAL CYCLE	TWO TIDAL CYCLES SAMPLED
WATER TRANSPORT	WATER	IMPELLOR METER	CUBIC METERS PER TIDAL CYCLE	2	OBS			TWO TIDAL CYCLES SAMPLED

N74

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, [illegible]RGINIA [illegible] [illegible] ROADS

ABSTRACT:
SURVEY ON THE OCCURRENCE AND ABUNDANCE OF FOULING ORGAN[illegible] [illegible] [illegible]PRISED SAMPLES AND ON ASBESTOS TEST PLATES IN THE HAMPTON ROADS VA AREA. ANNOTATED LIST OF SPECIES AND TAXANOMIC CHECKLIST INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
65 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
SEASONAL OCCURRENCE OF EPIFAUNA ON TEST PANELS IN HAMPTON ROADS, VIRGINIA, 1967, INT J OCEANOL LIMNOL 1 (3) 149-164. VIMS THESIS, D R CALDER, 1966

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

GRID LOCATOR (LAT):
730766 730776

025

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	(YR)	49	STATIONS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	RELATIVE ABUNDANCE	49	OBS			FOULING ORGANISMS OBTAINED IN DREDGE SAMPLES AT 7 STATIONS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION PER TIVE	49	OBS			FOULING ORGANISMS OBTAINED IN DREDGE SAMPLES AT 7 STATIONS
COUNT OF BENTHIC	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	20	OBS	MONTHLY INSPECTION		FOULING ORGANISMS ON

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS			PER 155 CM SQ			OF PANELS		ASBESTOS TEST PANELS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION PER TIME	20	OBS	MONTHLY INSPECTION OF PANELS		FOULING ORGANISMS ON ASBESTOS TEST PANELS

C01081 A QUANTITATIVE STUDY OF [illegible] ANIMAL-SED[illegible] RELATIONSHI PAGE 01
DATA COLLECTED: JULY [illegible] 61 TO APRIL 1963 RECEIVED: JULY 31, 1973

PROJECTS:

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

ABSTRACT:
QUANTITATIVE ANALYSIS AND SURVEY OF THE BENTHIC FAUNA IN LOWER CHESAPEAKE BAY IN THE AREA OF A DREDGING AND DUMPING OPERATION BY THE U S ARMY, CORPS OF ENGINEERS. EMPHASIS ON ANIMAL- SEDIMENT TYPE RELATIONSHIPS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
40 PAGES; 349 SEDIMENT SAMPLES FROM 305 STATIONS PROCESSED.

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, R B STONE, 1963

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

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	305	STATIONS			
TIME	EARTH	STATION TIME	YRL	4	STATIONS			FOUR SAMPLING PERIODS
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT SAND, SILT, CLAY	48	OBS			
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	PERCENT SAND, SILT, CLAY	349	OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE, PER STATION	349	STATIONS			PETERSON GRAB, 0.067 CU METER
SPECIES DETERMINATION OF BENTHIC	BOTTOM	KEY	NUMBER OF INDIVIDUALS PER SPECIES,	48	STATIONS			PETERSON GRAB, 0.067 CU METER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS			NUMBER OF SPECIES PER STATION				
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	VARIABLE	4	OBS		INDEX OF SPECIES FREQUENCY, SPECIE ASSOCIATION WITH SEDIMENT GRAIN SIZE AND SEASONAL DISTRIBUTION COMPUTED FOR THE FOUR SAMPLING PERIODS

ENVIRONMENTAL CONSULTATION [illegible] ZOOPL. CHESAPEAKE BAY AND

DATA COLLECTED: JUNE [illegible] TO PRESENT

RECEIVED: AUGUST 08, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN BAY, ELIZABETH RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY, LYNNHAVEN BAY AND ELIZABETH RIVER, VA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS

DATA AVAILABILITY:
ON APPROVAL FROM CONTRACTOR

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
200 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-[illegible]
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	200 STATIONS			
TIME	EARTH	STATION TIME	YMDL	200 STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF INDIVIDUALS PER SPECIES	200 OBS			MARSH PLANTS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF INDIVIDUALS PER SPECIES	200 OBS			
COUNT OF BENTHIC PLANTS	LAND	VISUAL	NUMBER PER ACRE	200 OBS			
COUNT OF BENTHIC	BOTTOM	VISUAL	NUMBER PER ACRE	200 OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS							
BIOMASS OF BENTHIC PLANTS	LAND	DRY WEIGHT	POUNDS PER ACRE	200 OBS			
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT	POUNDS PER ACRE	200 OBS			
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
COUNT OF MICROBIOTA	WATER	VISUAL	CULTURE GROWTH (MPN)	14 OBS		SURFACE AND BOTTOM	COLIFORM, LYNNHAVEN AREA
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
NITRATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	14 OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	FEET	14 OBS			LYNNHAVEN AREA
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT COMPOSITION	7 OBS		BOTTOM	LYNNHAVEN AREA

001235 A STUDY OF THE EFFECTS OF DREDGING AND DREDGE SPOIL DISPOSAL ON THE MARINE ENVIRONMENT

DATA COLLECTED: JUNE 1961 TO APRIL 1963 RECEIVED: AUGUST 27, 1973

PROJECTS:

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

ABSTRACT:
INTENSIVE SURVEY OF SEDIMENTS AND BENTHIC ANIMALS IN THE AREA OF THE RAPPAHANNOCK SHOAL AND SOIL DISPOSAL LOCATION IN CHESAPEAKE BAY. SOME LIMITED SAMPLING IN YORK SPIT CHANNEL. SEDIMENT ANALYSIS IS COUPLED WITH A SURVEY OF BENTHIC FAUNA AND RELATED TO FEEDING TYPES, SUBSTRATE, HABITAT, SIZE, ABUNDANCE AND FREQUENCY OF ENCOUNTER. COMPARISON OF IN CHANNEL AND OUT CHANNEL SAMPLING DATA INCLUDED ALONG WITH COMMENTS AS TO THE EFFECT OF SPOIL DEPOSITION ON BENTHIC FAUNA. COMMENTS AS TO SEASONAL VARIATION OF BENTHIC FAUNA AND EFFECTS OF DREDGING INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
116 PAGES

FUNDING:
CORPS OF ENGINEERS, U S ARMY, CONTRACT NO DA-44-110-CIVENG-61-181

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL REPORT IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING, NO 8, 1967

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

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	98	STATIONS			
TIME	EARTH	STATION TIME	YML	5	STATIONS			SAMPLES TAKEN DURING FIVE CRUISES
BATHYMETRY	WATER	LEAD LINE	METERS	98	OBS			
SIZE ANALYSIS	SEDIMENT	SIEVE	TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN	98	OBS			GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
			MM, MEDIAN DIAMETER IN PHI SIZES				CORE ANALYZED
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN MM, MEDIAN DIAMETER IN PHI SIZES	98 OBS			GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF CORE ANALYZED
ORGANIC CARBON	SEDIMENT	DRY COMBUSTION/ GAS DISPLACEMENT	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
INORGANIC CARBON	SEDIMENT	DRY COMBUSTION/ GAS DISPLACEMENT	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
PHOSPHORUS	SEDIMENT	SPECTRCPHOTOMETRY	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
IRON	SEDIMENT	SPECTROPHOTOMETRY	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
SODIUM	SEDIMENT	FLAME SPECTROMETRY	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
POTASSIUM	SEDIMENT	FLAME SPECTROMETRY	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
CALCIUM	SEDIMENT	TITRATION	PER CENT BY WEIGHT	68 OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS	NOT ALL STATIONS SAMPLED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MAGNESIUM	SEDIMENT	TITRATION	PER CENT BY WEIGHT	68	OBS		90 CM SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	518	OBS			PETERSON GRAB 1/ 15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE PER SCREEN SIZE, TOTAL INDIVIDUALS	518	OBS			PETERSON GRAB 1/ 15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	NUMBERS	476	OBS			DIVERSITY ANALYSIS, RANK, BIO INDEX, FREQUENCY
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	KEY	NAMES	68	OBS			
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES RELATED TO SEDIMENT TYPES, NUMBER OF INDIVIDUALS PER SPECIES PER SEDIMENT TYPE PER METER SQ	476	OBS			

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
SURVEY OF MACROINVERTEBRATES IN THE VICINITY OF THE C AND D CANAL CONDUCTED ON A QUARTERLY SAMPLING SCHEDULE. 19 STATIONS SAMPLED WITH 3 REPLICATE GRABS PER VISIT USING A 0.1 SQUARE METER VAN VEEN GRAB. SPECIES, COUNTS, BIOMASS, AND COMMUNITY ANALYSIS DATA REPORTED.
(NRI REFERENCE NUMBER 73-113)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
40 PAGE REPORT

FUNDING:
U.S. ARMY CORPS OF ENGINEERS DAWC-61-71-C-0062

INVENTORY:

PUBLICATIONS:
APPENDIX 3 OF REPORT FILED BY PROJECT TITLE WITH PHILADELPHIA OFFICE OF CORPS AND AT CBL.

CONTACT:
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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	76	STATIONS			
TIME	EARTH	STATION TIME	YMD	76	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	76	OBS	QUARTERLY	BOTTOM	
TEMPERATURE	WATER	THERMISTOR	DEG C	44	OBS	QUARTERLY	BOTTOM	BECKMAN RS-5
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	44	OBS	QUARTERLY	BOTTOM	BECKMAN RS-5
SIZE ANALYSIS	SEDIMENT	SETTLING/ WEIGHING	PER CENT SAND, CLAY, SILT	19	OBS			VAN VEEN GRAB
SPECIES DETERMINATION	BOTTOM	KEY	SPECIES PER REPLICATE AND	223	OBS	QUARTERLY		0.1 VAN VEEN GRAB, 3

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OF BENTHIC ANIMALS			PER STATION					REPLICATES PER STATION PER QUARTER, SIEVE SIZE 0.7 MM
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SAMPLE, PER SPECIES, PER REPLICATE, AND MEAN NUMBER PER STATION PER SPECIES	228	OBS	QUARTERLY		16 SPECIES TAKEN
CATCH/EFFORT OF BENTHIC ANIMALS	BOTTOM	TRAP	NUMBER PER SQ METER	228	OBS	QUARTERLY		16 SPECIES TAKEN
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT	GRAMS PER SQ METER	228	OBS	QUARTERLY		16 SPECIES TAKEN
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT	GM PER SAMPLE	12	OBS			
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	RELATIVE ABUNDANCE, RANK ABUNDANCE, PERCENT COMPOSITION, FAGER ANALYSIS, SANDERS AFFINITY ANALYSIS, DIVERSITY D, D MAX, D MIN, AND REDUNDANCY	228	OBS	QUARTERLY		
DIVERSITY INDEX OF BENTHIC ANIMALS	BOTTOM	MARGALEF	BY STATION AND QUARTER	76	OBS	QUARTERLY		
STOMACH CONTENT ANALYSIS OF [redacted]AL FISH	WATER	VISUAL	PER CENT COMPOSITION BY NUMBER AND OCCURRENCE	172	OBS			19 MORONE SAXATILIS, 108 M. AMERICANA, 35 ICTALURUS CATUS, AND 10 PERCA FLAVESCENS TAKEN IN MARCH THROUGH MAY

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY, SINEPUXENT BAY

ABSTRACT:
DESCRIPTIVE SURVEY OF BENTHIC COMMUNITIES IN CHINCOTEAGUE AND SINEPUXENT BAYS CONDUCTED IN 1969. 139 STATIONS OCCUPIED WITH 3 REPLICATE SAMPLES PER STATION. DEPTH, SEDIMENT TYPE, AND BIOLOGICAL MATERIAL REPORTED FOR EACH STATION. MORE INTENSIVE SAMPLING PERFORMED IN AREAS OF DREDGE BORROW PITS.
(ANALYSES BY KLAUS DROBECK, NRI REFERENCE 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 6 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

PUBLICATIONS:

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

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	139 STATIONS			
TIME	EARTH	STATION TIME	YMD	139 STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	139 OBS		BOTTOM	
SIZE ANALYSIS	SEDIMENT	SETTLING/ WEIGHING	PHI UNITS	139 OBS			MEAN GRAIN SIZE, MEDIAN GRAIN SIZE, SKEWNESS, SORTING COEFFICIENT
ORGANIC CARBON	SEDIMENT	GRAVIMETRY	PERCENT OF SAMPLE	139 OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	139	OBS			
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	139	OBS			RELATIVE ABUNDANCE SCALE TO RANK THE DOMINANT SPECIES
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	417	OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES PER REPLICATE PER STATION AND MEANS	417	OBS			
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	MILLIMETERS	139	OBS			VENUS MERCENARIA, SIZE FREQUENCY PER STATION, MEAN LENGTH PER STATION
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	CORRELATIONS	139	OBS			DISTRIBUTION AND DENSITY OF CLAMS WITH OTHER FACTORS OF PHYSICAL AND BIOLOGICAL NATURE OF HABITAT

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, LEWES

ABSTRACT:
THE PURPOSE OF THIS STUDY WAS TO EVALUATE THE GROSS (COMMUNITY DISRUPTION, MORTALITY) BIOLOGICAL EFFECTS OF DREDGING AND OVERBOARD SPOIL DISPOSAL IN THE BREAKWATER HARBOR, LEWES, DELAWARE, ON BENTHIC MARINE INVERTEBRATES. THE STUDY CONSISTED OF THREE ASPECTS: 1) PHYSICAL OCEANOGRAPHY AND AERIAL PHOTOGRAPHY, 2) MARINE GEOLOGY, AND 3) MARINE BIOLOGY. SPECIFIC OBJECTIVES WERE: 1) TO DETERMINE THE RELATIVELY SHORT-TERM DISPERSION OF SPOILS FROM DREDGING, AND 2) TO DETERMINE THE SHORT-TERM BIOLOGICAL EFFECT OF SPOIL DISPOSAL FROM DREDGING. THERE WERE 103 STATIONS WITHIN THE STUDY AREA WHICH WERE SAMPLED THREE TIMES; DECEMBER 1971, MARCH 1972 AND JUNE 1972. THE PARAMETERS DETERMINED IN THE STUDY AREA ARE CURRENT SPEED AND DIRECTION, SPECIES DETERMINATION AND COUNT OF BENTHIC ANIMALS, SALINITY, TEMPERATURE, DISSOLVED OXYGEN, EH, SIZE ANALYSIS OF SEDIMENTS, BIOMASS OF BENTHIC ANIMALS AND SECCHI DISC DEPTH.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
THE DATA OCCURS IN A REPORT WHICH IS 231 PAGES IN LENGTH.

FUNDING:
NOAA OFFICE OF SEA GRANT NO. 2-35223

INVENTORY:

PUBLICATIONS:
MAURER, D., ET. AL., 1974, EFFECT OF SPOIL DISPOSAL ON BENTHIC COMMUNITIES NEAR THE MOUTH OF DELAWARE BAY, COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE, 231 PP.

CONTACT:
DR. DON MAURER 302 738 2569
COLLEGE OF MARINE STUDIES, 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	RADAR	DMT	103 STATIONS			
TIME	EARTH	STATION TIME	YMDH	103 STATIONS			
SIZE ANALYSIS	SEDIMENT	SIEVE		103 STATIONS			
CURRENT DIRECTION	WATER	DYE STUDY		7 STATIONS		1 AND 2 METERS BELOW SURFACE	CURRENT STUDIES DONE ON JANUARY 6 AND 7, 1972

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CURRENT SPEED	WATER	DYE STUDY		7 STATIONS		1 AND 2 METERS BELOW SURFACE	CURRENT STUDIES DONE ON JANUARY 6 AND 7, 1972
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER/ONE-TENTH OF A SQUARE METER	277 OBS			
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		277 OBS			115 SPECIES IDENTIFIED
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	103 STATIONS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	103 STATIONS			
SALINITY	WATER	CONDUCTIVITY	PPT	103 STATIONS			
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	CENTIMETERS	103 STATIONS			
TEMPERATURE	SEDIMENT	MERCURY THERMOMETER	DEG C	103 STATIONS			
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT		103 STATIONS			
BIOMASS OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT		103 STATIONS			
EH	INTERSTITIAL	SPECIFIC ION ELECTRODE		103 STATIONS			
CURRENT DIRECTION	WATER	DRIFT DEVICE		7 STATIONS			
CURRENT SPEED	WATER	DRIFT DEVICE		7 STATIONS			

BIOLOGICAL REPORTS FOR PERMIT APPLICATIONS TO ALTER MARSHLANDS, ESTUARINE BOTTOMS, TIDELANDS, AND STATE-OWNED LAKES OF NORTH CAROLINA
DATA COLLECTED: JANUARY 1970 TO PRESENT

RECEIVED: APRIL 02, 1975

PROJECTS:

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

ABSTRACT:
BIOLOGICAL REPORTS WHICH DETERMINE EFFECTS OF BUILDING AND DREDGING PROJECTS ON COASTAL MARSH LANDS, ESTUARINE BOTTOMS, TIDELANDS AND STATE-OWNED LAKES OF NORTH CAROLINA. AERIAL PHOTOGRAPHY IS USED TO MONITOR ANY BUILDING OR DREDGING PERMIT VIOLATIONS.

DATA AVAILABILITY:
NO RESTRICTIONS

PLATFORM TYPES:
SHIP; AIRCRAFT

ARCHIVE MEDIA:
REPORTS
ONE 35 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JAMES T. BROWN 919 726 7021
NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
DIVISION OF COMMERCIAL AND SPORTS FISHERIES P.O. BOX 769
MOOREHEAD CITY NORTH CAROLINA USA 28557

GRID LOCATOR (LAT):
730738 730739 730745 730746 730747 730755 730756 730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	250	STATIONS			
TIME	EARTH	STATION TIME	YMD	250	STATIONS	YEARLY		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		250	STATIONS	YEARLY		DESCRIBES MARSH TYPE
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	250	STATIONS	YEARLY		AERIAL PHOTOGRAPHY USED TO DETERMINE IF ENVIRONMENT ALTERED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY		250 STATIONS	YEARLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		250 STATIONS	YEARLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A YEAR LONG STUDY OF THE PRODUCTION AND DISTRIBUTION OF FISH EGGS AND LARVAE IN THE CHESAPEAKE AND DELAWARE CANAL WAS CONDUCTED. STUDY OBSERVED HYDROGRAPHIC DATA AS WELL AS THE FECUNDITY OF SOME TWENTY SPECIES OF FISH. (DATA CONTAINED IN APPENDIX 1)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 143 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT K. JOHNSON 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	28 STATIONS			
TIME	EARTH	STATION TIME	YMD	28 STATIONS	WEEKLY		
TEMPERATURE	WATER	REVERSING THERMOMETER		28 STATIONS	WEEKLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION		28 STATIONS	WEEKLY		
PH	WATER	PH METER		28 STATIONS	WEEKLY		
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL		28 STATIONS	WEEKLY		
COUNT OF	WATER	VISUAL		28 STATIONS	WEEKLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC FISH SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		28 STATIONS	WEEKLY		
FECUNDITY OF PELAGIC FISH	WATER	VISUAL		28 STATIONS	WEEKLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWO YEAR STUDY OF THE PRODUCTION AND DISTRIBUTION OF STRIPED BASS EGGS IN THE CHESAPEAKE AND DELAWARE CANAL WAS CONDUCTED. PARAMETERS INCLUDE FECUNDITY, COUNTS AND IDENTIFICATION OF ADULTS CAPTURED. (DATA CONTAINED IN APPENDIX II)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 40 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT K. JOHNSON 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	28	STATIONS			
TIME	EARTH	STATION TIME	YMD	28	STATIONS	MONTHLY		
FECUNDITY OF PELAGIC FISH	WATER	VISUAL		28	STATIONS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		28	STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		28	STATIONS	MONTHLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWENTY-ONE MONTH BIOLOGICAL SURVEY OF THE CHESAPEAKE AND DELAWARE CANAL AND ITS APPROACHES WAS CONDUCTED. PARAMETERS INCLUDE COUNT AND SPECIES DETERMINATION OF ORGANISMS PRESENT AS WELL AS BIOMASS OF SELECTED STATIONS. HYDROGRAPHIC DATA WAS TAKEN FOR EACH OF THE STATIONS.
(DATA CONTAINED IN APPENDIX IV)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 44 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:

CONTACT:
MALCOLM H. TAYLOR 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
738795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	15	STATIONS			
TIME	EARTH	STATION TIME	YMD	15	STATIONS	QUARTERLY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL		15	STATIONS	QUARTERLY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		15	STATIONS	QUARTERLY		
COUNT OF	WATER	VISUAL		15	STATIONS	QUARTERLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC ANIMALS							
SPECIES DETERMINATION OF PELAGIC ANIMALS	WATER	KEY		15 STATIONS	QUARTERLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION		15 STATIONS	QUARTERLY		
TEMPERATURE	WATER	REVERSING THERMOMETER		15 STATIONS	QUARTERLY		
SALINITY	WATER	CONDUCTIVITY		15 STATIONS	QUARTERLY		
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER		15 STATIONS	QUARTERLY		
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT		15 STATIONS	QUARTERLY		
BIOMASS OF PELAGIC ANIMALS	WATER	DRY WEIGHT		15 STATIONS	QUARTERLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A STUDY TO DETERMINE THE STATUS OF THE BLUE CRAB POPULATION IN THE CHESAPEAKE AND DELAWARE REGION WAS CONDUCTED. PARAMETERS OBSERVED WERE COUNT, SEX DETERMINATION AND LENGTH/WEIGHT RATIOS OF CRABS AND HYDROGRAPHIC DATA.
(DATA CONTAINED IN APPENDIX V)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 11 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:

CONTACT:
STEPHEN D. SULKIN 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	6	STATIONS			
TIME	EARTH	STATION TIME	YMD	6	STATIONS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY		6	STATIONS	MONTHLY		
TEMPERATURE	WATER	REVERSING THERMOMETER		6	STATIONS	MONTHLY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL		6	STATIONS	MONTHLY		
SPECIES DETERMINATION OF BENTHIC	BOTTOM	KEY		6	STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS							
CATCH/EFFORT OF BENTHIC ANIMALS	BOTTOM	TRAP		6 STATIONS	MONTHLY		
SEX DETERMINATION OF BENTHIC ANIMALS	BOTTOM	VISUAL		6 STATIONS	MONTHLY		
LENGTH/WEIGHT RATIO IN BENTHIC ANIMALS	BOTTOM	DIRECT		6 STATIONS	MONTHLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWENTY NINE MONTH SURVEY OF THE FISH IN THE DELAWARE PORTION OF THE CHESAPEAKE AND DELAWARE CANAL WAS CONDUCTED. PARAMETERS INCLUDE COUNT AND SPECIES DETERMINATION OF EACH CATCH, HYDROGRAPHIC DATA AND LENGTH/WEIGHT RATIOS OF FISH CAUGHT AT SELECTED STATIONS. 33 SPECIES OF FISH WERE CAPTURED DURING THE SAMPLING PERIOD.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 75 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:
DATA CONTAINED IN APPENDIX VII, HYDROGRAPHIC AND ECOLOGICAL EFFECTS OF ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

CONTACT:
MALCOLM H. TAYLOR 302 738 2842
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	8 STATIONS			
TIME	EARTH	STATION TIME	YMD	8 STATIONS	MONTHLY		
TEMPERATURE	WATER	REVERSING THERMOMETER		8 STATIONS	MONTHLY		
TEMPERATURE	AIR	MERCURY THERMOMETER		8 STATIONS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY		8 STATIONS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION		8 STATIONS	MONTHLY		
LIGHT ATTENUATIO	WATER	VISUAL		8 STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
N							
PH	WATER	PH METER		8 STATIONS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		8 STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		8 STATIONS	MONTHLY		
LENGTH/WEIGHT RATIO IN PELAGIC FISH	WATER	DIRECT		8 STATIONS	MONTHLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWENTY-NINE MONTH SURVEY OF THE FISH IN THE MARYLAND PORTION OF THE CHESAPEAKE AND DELAWARE CANAL WAS CONDUCTED. PARAMETERS INCLUDE COUNT AND SPECIES DETERMINATION OF EACH CATCH, HYDROGRAPHIC DATA, AND LENGTH/WEIGHT RATIOS OF FISH CAUGHT. A TOTAL OF 43 SPECIES WERE CAUGHT.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 28 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:
DATA CONTAINED IN APPENDIX VI, HYDROGRAPHIC AND ECOLOGICAL EFFECTS OF OF ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

CONTACT:
DOUGLAS E. RITCHIE JR. 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	10 STATIONS			
TIME	EARTH	STATION TIME	YMD	10 STATIONS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		10 STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		10 STATIONS	MONTHLY		
LENGTH/WEIGHT RATIO IN	WATER	DIRECT		10 STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC FISH							
TEMPERATURE	WATER	REVERSING THERMOMETER		10 STATIONS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY		10 STATIONS	MONTHLY		
TEMPERATURE	AIR	MERCURY THERMOMETER		10 STATIONS	MONTHLY		

DATA COLLECTED: FEBRUARY 1971 TO APRIL 1973 RECEIVED: DECEMBER 01, 1975

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWENTY-SIX MONTH FISH TAGGING STUDY TO DETERMINE THE MOVEMENTS OF FISH IN THE CHESAPEAKE AND DELAWARE CANAL WAS CONDUCTED. TWO TYPES OF TAGS WERE USED: THE CARLIN TAG WAS APPLIED TO SMALL FISH (LESS THAN 1 FOOT) AND THE PETERSEN DISC TAG WAS USED FOR LARGER FISH. MIGRATION STUDIES WERE ALSO CONDUCTED WITH THE USE OF ULTRASONIC TRANSMITTERS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 56 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:
DATA CONTAINED IN APPENDIX VIII, HYDROGRAPHIC AND ECOLOGICAL EFFECTS OF ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

CONTACT:
DOUGLAS E. RITCHIE, JR. 301 454 0100
UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
7[illegible]795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	26 STATIONS			
TIME	EARTH	STATION TIME	YMD	26 STATIONS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		26 STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		26 STATIONS	MONTHLY		
MIGRATION STUDY OF PELAGIC	WATER	TAGGING STUDIES		26 STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
FISH LENGTH OF PELAGIC FISH	WATER	FORK LENGTH		26 STATIONS	MONTHLY		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

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

ABSTRACT:
A TWENTY FIVE MONTH TAGGING STUDY TO DETERMINE HOW FISH USE THE CHESAPEAKE AND DELAWARE CANAL IN THEIR MIGRATIONS AND MOVEMENTS WAS CONDUCTED. THE PURPOSE WAS TO GAIN SOME KNOWLEDGE OF THE GEOGRAPHIC DISTRIBUTION OF FISH THAT SPENT SOME PART OF THEIR LIFE CYCLE IN THE CANAL AREA. THE PRIMARY TARGET SPECIES WAS THE AMERICAN SHAD, ALOSA SAPIDISSIMA. A TOTAL OF 13 SPECIES WERE TAGGED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 45 PAGE REPORT

FUNDING:
ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:
DATA CONTAINED IN APPENDIX IX, HYDROGRAPHIC AND ECOLOGICAL EFFECTS OF ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

CONTACT:
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UNIVERSITY OF MARYLAND
NATURAL RESOURCES INSTITUTE
COLLEGE PARK MARYLAND USA 20740

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	5 STATIONS			
TIME	EARTH	STATION TIME	YMD	5 STATIONS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		5 STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		5 STATIONS	MONTHLY		
MIGRATION STUDY	WATER	TAGGING STUDIES		5 STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
OF PELAGIC FISH							

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NEW JERSEY, GLOUCESTER COUNTY, LOGAN TOWNSHIP, COASTAL

ABSTRACT:
THIS REPORT IS AN ASSESSMENT OF ENVIRONMENTAL CHANGE THAT WOULD BE LIKELY TO RESULT FROM THE USE OF THE SITE FOR DISPOSAL OF DREDGE SPOILS. THE DATA ARE ALL EITHER FAUNAL INVENTORY OR WATER QUALITY DATA.
(REPORT FILED TO N.J. E.P.A., JOHN FITCH PLAZA, TRENTON, N.J. ON BEHALF OF AMERICAN DREDGING CO., 12 S. 12TH ST. PHILA, PA. 19107)

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
110 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. JAMES A. SCHMID 215 647 3110
JACK MCCORMICK AND ASSOCIATES
860 WATERLOO RD.
DEVON PENNSYLVANIA USA 19333

GRID LOCATOR (LAT):
73079541 73079542

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TIME	EARTH	SAMPLING TIME	YMDHML	6 STATIONS			
SPECIES DETERMINATION OF AMPHIBIANS	WATER	KEY		3 STATIONS			
SPECIES DETERMINATION OF REPTILES	WATER	KEY		3 STATIONS			
SPECIES DETERMINATION OF REPTILES	LAND	KEY		3 STATIONS			
SPECIES	LAND	KEY		3 STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DETERMINATION OF MAMMALS							
SPECIES DETERMINATION OF BIRDS	AIR	KEY		3 STATIONS			LISTED FOR EACH OF 6 ENVIRONMENTS
TIDAL PHASE	WATER	TABLES		6 STATIONS			3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
PERSISTENT FLOATING MATERIALS	WATER	VISUAL		6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
OIL SLICK OCCURRENCE	WATER	VISUAL		6 STATIONS		ON SURFACE	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
PARTICULATE MATTER	WATER	GRAVIMETRY	MG/L	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
SALINITY	WATER	STD	PPT	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
PH	WATER	PH METER	PH UNITS	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHOS PER SQUARE CM	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	JACKSON TURBIDITY UNITS	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
COLOR	WATER	VISUAL	ADHA UNITS	6 STATIONS		SHALLOW WATER (CEDAR SWAMP)	3 SITES, EACH CHECKED ONCE AT HIGHTIDE, ONCE AT LOW TIDE
POSITIO	EARTH	FIXED POINT		6 STATIONS			

GATX CORPORATION PROPOSED T[illegible] FACILITY ON THE DELAWARE RIVER
DATA COLLECTED: JANUARY 19[illegible] TO JANUARY 1973 RECEIVED: JUNE 21, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NEW JERSEY, DELAWARE RIVER, GLOUCESTER COUNTY, WEST DEPTFORD TOWNSHIP

ABSTRACT:
IN PUTTING TOGETHER AN ENVIRONMENTAL IMPACT STATEMENT FOR THE PROPOSED CONSTRUCTION OF THE GATX CORPORATION'S TERMINAL FACILITY ON THE DELAWARE RIVER NEAR WEST DEPTFORD TOWNSHIP, N.J., JERSEY, THE US ARMY CORPS OF ENGINEERS COMPILED DATA BASELINE SURVEYS FROM 1952 TO THE PRESENT. AN OVERALL ASSESSMENT OF LOCAL TOPOGRAPHY, HYDROLOGY, ECOSYSTEMS, WATER AND AIR QUALITY, AND CLIMATE WAS MADE IN RELATIONSHIP TO THE EFFECTS OF THE PROPOSED ACTION.
(E.I.S. FOR GATX CORPORATION'S PROPOSED CONSTRUCTION OF TERMINAL)

DATA AVAILABILITY:
AVAILABLE UPON REQUEST FROM US ARMY CORPS OF ENGINEERS, PHILADELPHIA DISTRICT.

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
250 PAGES

FUNDING:
US DEPARTMENT OF DEFENSE, US ARMY CORPS OF ENGINEERS, PHILADELPHIA DISTRICT, PUBLIC NOTICE NO. NAPOP-N-858.

INVENTORY:

PUBLICATIONS:

CONTACT:
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2ND AND CHESTNUT STREETS
PHILADELPHIA PENNSYLVANIA USA 19106

GRID LOCATOR (LAT):
7307955112

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	1 STATIONS			MAP LOCATIONS
TIME	EARTH	STATION TIME	YMD	1 OBS			COLLECTION OF HISTORICAL DATA COMPILED IN REPORT ALONG WITH RECENT MEASUREMENTS
SPECIES DETERMINATION	LAND	KEY	QUALITATIVE TERMS	1 OBS		SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
OF LAND PLANTS							
SPECIES DETERMINATION OF MAMMALS	LAND	KEY	QUALITATIVE TERMS	1 OBS		SURFACE	
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	QUALITATIVE TERMS	1 OBS		SURFACE	
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	MICROMHOS	2 OBS	CONTINUOUS	WATER COLUMN	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	2 OBS	CONTINUOUS	WATER COLUMN	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	2 OBS	CONTINUOUS	WATER COLUMN	
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	QUALITATIVE TERMS	1 OBS		WATER COLUMN	
SULFUR DIOXIDE	AIR	VISUAL	PPM	4 OBS	CONTINUOUS	AIR COLUMN	
CARBON MONOXIDE	AIR	GAS CHROMATOGRAPHY/IONIZATION	PPM	4 OBS	CONTINUOUS	AIR COLUMN	
HYDROCARBONS	AIR	GAS CHROMATOGRAPHY/IONIZATION	PPM	4 OBS	CONTINUOUS	AIR COLUMN	
PHOTOCHEMICAL OXIDANTS	AIR	VISUAL	PPM	4 OBS	CONTINUOUS	AIR COLUMN	
NITROGEN DIOXIDE	AIR	VISUAL	PPM	4 OBS	CONTINUOUS	AIR COLUMN	
PARTICULATE MATTER	PARTICULATE	COEFFICIENT OF HAZE	UG/M3	4 OBS	CONTINUOUS	AIR COLUMN	
SIGHTINGS OF SMOKE PLUME	AIR	VISUAL	RUDS	4 OBS	CONTINUOUS	AIR COLUMN	
LAND USE	LAND	VISUAL	QUALITATIVE TERMS	1 OBS		SURFACE	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL PLAIN, U.S., MARYLAND, QUEEN ANN COUNTY

ABSTRACT:
A STUDY OF VEGETATIVE REHABITATION OF THREE DISTURBED MARSHES IN QUEEN ANN COUNTY, MARYLAND IS BEING CONDUCTED. ALL SUBMERGENT AND EMERGENT PLANTS TO 3 FOOT WATER DEPTH AT THREE DISTURBED AREAS, AND 52 STATIONS PER DISTURBED AREA ARE BEING STUDIED. SAMPLES ARE TAKEN EARLY AND LATE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOK

FUNDING:
MD DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
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TAWES STATE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
7307960200

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	3 STATIONS			
TIME	EARTH	STATION TIME	YMD	3 STATIONS	TWICE/YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		3 STATIONS	TWICE/YEAR		
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER/SPECIES AND RELATIVE DENSITY	3 STATIONS	TWICE/YEAR		
BOTTOM TYPE	BOTTOM	VISUAL		3 STATIONS	TWICE/YEAR		DESCRIPTION OF BOTTOM CHARACTER AS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							FIRM OR MUCK AND DEPTH OF MUCK

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL PLAIN, U.S., MARYLAND, QUEEN ANN, SOMERSET, WACOMICO, AND DORCHESTER COUNTY

ABSTRACT:
A STUDY OF VEGATATIVE REHABITATION OF 6 SPOIL SITES ON THE BAY SIDE OF THE EASTERN SHORE, MARYLAND IS BEING CONDUCTED. REHABITATION STUDY OF 6 SPOIL SITES CONSISTS OF ONE CROSS TRANSECT AT EACH SITE. SAMPLES ARE TAKEN EVERY 50 FEET ALONG TRANSECT ARM. VEGETATIONAL APPEARANCE AND SPECIES LIST FOR BOTH SUPER AND INTER-TIDAL SAMPLES ARE NOTED.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOK

FUNDING:
MD DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
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ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
73077555 7307961050

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	6	STATIONS			
TIME	EARTH	STATION TIME	YMD	6	STATIONS	ONCE PER YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY		6	STATIONS	ONCE PER YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY		6	STATIONS	ONCE PER YEAR		
COUNT OF BENTHIC PLANTS	LAND	VISUAL	ESTIMATED ABUNDANCE	6	STATIONS	ONCE PER YEAR		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	ESTIMATED ABUNDANCE	6 STATIONS	ONCE PER YEAR		

008016 ECOLOGICAL STUDIES IN THE VICINITY OF THE PROPOSED SUMMIT POWER STATION, VOLUME 1: FISHES

DATA COLLECTED: JANUARY 1974 TO DECEMBER 1974 RECEIVED: AUGUST 12, 1976

PROJECTS:
ENLARGEVENT 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 FISHES PRESENT IN THE CHESAPEAKE AND DELAWARE CANAL AND ADJACENT WATERS OF THE DELAWARE AND ELK RIVERS DURING THE 1974 ECOLOGICAL STUDY OF THE AQUATIC ENVIRONMENT IN THE VICINITY OF THE PROPOSED SUMMIT POWER PLANT ARE PRESENTED IN REPORT FORM. THE DATA WERE GATHERED IN 325 HAULS OF A 16-FOOT TRAWL, 83 HAULS OF A 10-FOOT TRAWL, 358 SEINE COLLECTIONS, 70 GILLNET SETS AND 21 DAYS OF CREEL CENSUS. SPECIES DETERMINATIONS AND DISTRIBUTIONS ARE PRESENTED ON A BIWEEKLY BASIS IN ORDER TO OBTAIN INFORMATION ON SEASONAL CHANGES IN POPULATION STRUCTURE. STOMACH ANALYSES OF SEVERAL SPECIES OF FISH ARE ALSO GIVEN ON A SEASONAL BASIS. LENGTH-FREQUENCY DISTRIBUTIONS AND CALCULATED GROWTH RATES OF PROMINENT SPECIES ARE INCLUDED, AS ARE THE RESULTS OF TAGGING STUDIES AND FECUNDITY STUDIES OF EGG PRODUCTION. DATA ON WATER DEPTH, SALINITY, CONDUCTIVITY, TEMPERATURE, DISSOLVED OXYGEN GAS, PH, SECCHI DISK DEPTH, AND TIDAL PHASE, OBTAINED DURING ALL SAMPLING EVENTS OF FISH, ARE LIKEWISE AVAILABLE IN THE REPORT.

DATA AVAILABILITY:
UPON REQUEST AND PERMISSION OF DELMARVA POWER AND LIGHT COMPANY

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
REPORTS
327 PAGES

FUNDING:
DELMARVA POWER AND LIGHT COMPANY

INVENTORY:

PUBLICATIONS:
INTERPRETIVE REPORT 1974 BY ICHTHYOLOGICAL ASSOCIATES FOR UNITED ENGINEERS AND CONSTRUCTORS INC., CLIENT: DELMARVA POWER AND LIGHT COMPANY

CONTACT:
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DELMARVA POWER AND LIGHT COMPANY
800 KING STREET
WILMINGTON DELAWARE USA 19899

GRID LOCATOR (LAT):
73079534

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	52	STATIONS			12 16-FOOT TRAWL STATIONS, 14 10-FOOT TRAWL STATIONS, 10 SEINE STATIONS, 3 GILLNET STATIONS, 13 CREEL CENSUS STATIONS
TIME	EARTH	STATION TIME	YMDH	836	OBS	VARIES - WEEKLY TO MONTHLY		325 16-FOOT TRAWL HAULS, 83 10-FOOT TRAWL HAULS, 358 SEINE COLLECTIONS, 70 GILLNET SETS; ALSO 21 CREEL CENSUS DAYS
SALINITY	WATER	CONDUCTIVITY	PPT	920	OBS		SURFACE, BOTTOM WHEN STATION DEPTH GREATER THAN 10 FEET	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	ELECTRICAL CONDUCTION UNITS	928	OBS		SURFACE, BOTTOM WHEN STATION DEPTH GREATER THAN 10 FEET	
TEMPERATURE	WATER	THERMISTOR	DEG C	1067	OBS		SURFACE, BOTTOM WHEN STATION DEPTH GREATER THAN 10 FEET	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PPM	637	OBS		SURFACE, BOTTOM WHEN STATION DEPTH GREATER THAN 10 FEET	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	INCHES	412	OBS			
PH	WATER	PH METER	PH UNITS	970	OBS		SURFACE, BOTTOM WHEN STATION DEPTH GREATER THAN 10 FEET	
TIDAL CURRENT	WATER	DIRECTION VANE	COMPASS	563	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DIRECTION			DIRECTION					
TIDAL PHASE	WATER	VISUAL	HIGH LOW MID	770	OBS			
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	676	OBS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES PER OBS PER STATION	836	OBS			
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER SPECIES PER OBS PER STATION	836	OBS			
CATCH/EFFORT OF PELAGIC FISH	WATER	NET	MEAN NUMBER OF INDIVIDUALS PER SPECIES PER OBS BY MONTH	478	OBS			16-FOOT TRAWL DAYLIGHT; 16-FOOT TRAWL NIGHT; 10-FOOT TRAWL DAYLIGHT; GILLNET DAYLIGHT
CATCH/EFFORT OF PELAGIC FISH	WATER	HOOKS	MEAN NUMBER OF INDIVIDUALS PER MAN-HOUR BY STATION	4881	DAYS			
CATCH/EFFORT OF BENTHIC ANIMALS	BOTTOM	TRAP	MEAN NUMBER OF INDIVIDUALS TRAPPED PER MAN-HOUR BY STATION	1824	DAYS			BLUE CRAB-CREEL SURVEY
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS CAUGHT BY POLLED FISHERMEN PER STATION PER MONTH	21	DAYS			
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	NUMBER OF INDIVIDUALS PER SPECIES PER 5-MM UNITS OF FORK LENGTH BY MONTHLY CATCH	15011	OBS			16-FOOT TRAWL, SEINE AND 10-FOOT TRAWL: CATCHES LISTED SEPARATELY
DIVERSITY INDEX OF PELAGIC FISH	WATER	MACARTHUR		33	OBS			SEINE DAYLIGHT, 16-FOOT TRAWL DAYLIGHT, SEINE NIGHT AND 16-FOOT TRAWL NIGHT INDICES SEPARATE
SPORT FISHERIES	WATER	QUESTIONNAIRE	MEAN NUMBER OF	4881	DAYS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ACTIVITIES			INDIVIDUALS PER MAN-HOUR BY MONTH					
LENGTH/WEIGHT RATIO IN PELAGIC FISH	WATER	CALCULATED		30	OBS			
MORPHOMETRIC MEASURE OF BENTHIC ANIMALS	BOTTOM	DIRECT	NUMBER OF CRABS PER 5 MM INTERVALS OF CARAPACE WIDTH PER MONTHLY SAMPLE PER STATION	707	OBS			3 STATIONS, APRIL - NOVEMBER
SEX DETERMINATION OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF MALES/ FEMALES PER 5 MM INTERVALS OF CARAPACE WIDTH PER MONTHLY SAMPLE PER STATION	707	OBS			
GROWTH STUDIES OF PELAGIC FISH	WATER	LENGTH/TIME	PERCENT TOTAL GROWTH PER YEAR CLASS PER YEAR	384	OBS			WHITE PERCH - MALE AND FEMALE COMBINED
STOMACH CONTENT ANALYSIS OF PELAGIC FISH	WATER	VISUAL	SPECIES	40	OBS			DETERMINED FOR 8 SPECIES OF FISH
FECUNDITY OF PELAGIC FISH	WATER	MECHANICAL	NUMBER OF EGGS 50 G SAMPLE OF OVARY PER INDIVIDUAL	16	OBS			WHITE PERCH EXAMINED FROM APRIL 16 - MAY 7, 1974
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	G OF INDIVIDUAL	16	OBS			WHITE PERCH EXAMINED FROM APRIL 16 - MAY 7, 1974
AGE DATING OF PELAGIC FISH	WATER	SCALES	DESCRIPTIVE TERMS FOR AGE GROUP	16	OBS			WHITE PERCH EXAMINED FROM APRIL 16 - MAY 7, 1974

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

CONTACT:
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800 KING STREET
WILMINGTON DELAWARE USA 19899

GRID LOCATOR (LAT):
73079533

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 - JANUARY, FEBRUARY, NOVEMBER,	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

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

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, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

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	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SILICON	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	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
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
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

0273

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, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS; 5-TENTHS M, 500-MICRON MESH NET USED IN SAMPLING;

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						MARCH-OCTOBER		DAY SAMPLING
SPECIES DE.ERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES PER M3 PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	COUNT OF ZOOPLANKTON
MORTALITY OF ZOOPLANKTON	WATER	VISUAL	PERCENT OF TOTAL INDIVIDUALS PER SPECIES DEAD AT TIME OF SAMPLING PER SAMPLE	16	OBS	MONTHLY	SURFACE, BOTTOM	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	

ANNEX II

Data Files

Part B

Data File Index - Listed by Key Word

Dredging and Spoil Disposal

This index contains an alphabetical listing by key word of the data files in this annex. After some key words 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 key words which do not reference any relevant files are included to indicate the extent of the file search.

ANNEX II

Part B
Data File Index Listed by Key Word

Dredging and Spoil Disposal

2,4-D (sediment) - herbicide
    none

2,4-D (suspended)
    none

2,4-D (water)
    none

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)
    none

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

none

aldrin (water)
none

aldrin in bio material (bottom)
none

aldrin in bio material (water)
none

aliphatic hydrocarbons (dissolved)
none

aliphatic hydrocarbons (sediment)
none

aliphatic hydrocarbons (water)
none

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)
none

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)
none

arsenic (dissolved)
none

arsenic (sediment)
none

arsenic (suspended)
none

arsenic (water)
none

arsenic in bio material (bottom)
none

arsenic in bio material (water)
none

asbestos
use amphibol. chrysotile.

atrazine (water) - herbicide
none

atrazine in bio material (bottom)
none

atrazine in bio material (water)
    none

benthic animals
    use biological condition, biomass, community structure analysis (bottom), count, developmental stage, diversity index, growth studies, migration, mortality, sex determination, species determination, taxonomic list, volume determination, weight

benthic plants
    use biological condition, biomass, community structure analysis (bottom), count, developmental stage, diversity index, growth studies, mortality, taxonomic list, volume determination, weight, yield

benzopyrene (water)
    none

beryllium (dissolved)
    none

beryllium (sediment)
    none

beryllium (suspended)
    none

beryllium (water)
    none

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

biological condition of benthic animals (bottom)
21

biological condition of benthic plants (bottom)
none

biomass of benthic animals (bottom)
29, 34, 38, 45

biomass of benthic plants (bottom)
none

biomass of benthic plants (land)
23

burrowers
use benthic animals

cadmium (dissolved)
none

cadmium (interstitial)
none

cadmium (sediment)
none

cadmium (suspended)
none

cadmium (water)
69

cadmium in bio material (bottom)
none

cadmium in bio material (sediment)
none

cadmium in bio material (water)
none

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)
none

cesium -137 (sediment)
none

cesium -137 (water)
none

chlordane (sediment) - insecticide
none

chlordane (water)
none

chlordane in bio material (bottom)
none

chlordane in bio material (water)
none

chlorinated hydrocarbons (sediment) - pesticides
none

chlorinated hydrocarbons (water)
none

chlorinated hydrocarbons in bio material (water)
none

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)
none

chromium (interstitial)
none

chromium (sediment)
69

chromium (suspended)
none

chromium (water)
69

chromium in bio material (bottom)
none

chromium in bio material (sediment)
none

chromium in bio material (water)
none

chrysotile (water) - asbestos
none

commercial fisheries activities (bottom)
none

community diversity
use diversity index

community structure analysis (bottom)
6, 27, 31, 34, 36

condition
use biological condition

copper (dissolved)
none

copper (interstitial)
none

copper (sediment)
none

copper (suspended)
none

copper (water)
none

copper in bio material (bottom)
none

copper in bio material (sediment)
none

copper in bio material (water)
none

count of benthic animals (bottom)
6, 9, 25, 27, 29, 31, 34, 36, 38, 45, 47, 65, 69

count of benthic plants (bottom)
6, 36, 40, 61, 63

count of demersal fish (water)
6, 19

count of pelagic fish (water)
6, 17, 19, 42, 44, 49, 51, 53, 55, 65

count of phytoplankton (water)
69

count of zooplankton (water)
15, 17, 69

cyanide (sediment)
none

cyanide (water)
none

cyanide in bio material (water)
none

dacthal (water) - herbicide
none

DCPA
use dacthal

DDA (sediment) - insecticide
none

DDA (water)
none

DDA in bio material (water)
none

DDD (sediment) - insecticide
none

DDD (water)
none

DDD in bio material (bottom)
none

DDD in bio material (water)
none

DDE (sediment) - insecticide
none

DDE (water)
none

DDE in bio material (bottom)
none

DDE in bio material (water)
none

DDT (dissolved) - insecticide
none

DDT (sediment)
none

DDT (water)
none

DDT in bio material (bottom)
none

DDT in bio material (water)
    none

delta B.H.C.
    use lindane

demersal fish
    use count, mortality, species determination

detergents (water)
    none

developmental stage of benthic animals (bottom)
    none

developmental stage of benthic plants (bottom)
    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)
    none

dieldrin (water)
none

dieldrin in bio material (bottom)
none

dieldrin in bio material (water)
none

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

distribution
use community structure analysis (bottom), count, species determination

diuron (water) - herbicide
none

diversity index of benthic animals (bottom)
34

diversity index of benthic plants (bottom)
none

dylox
use trichlorfon

dyrene (water) - fungicide
none

endosulfan
use thiodan

endrin (sediment)
none

endrin (water)
none

endrin in bio material (bottom)
none

endrin in bio material (water)
none

epsilon B.H.C.
use lindane

ethion (sediment) - pesticide
none

ethion (water)
none

fish
use demersal, pelagic

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

growth studies of benthic animals (bottom)
none

growth studies of benthic plants (bottom)
none

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)
none

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)
none

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

index of dispersion
    use community structure analysis

index of diversity
    use diversity index

index of dominance
    use community structure analysis

index of evenness
    use community structure analysis

index of species association
    use community structure analysis

index of species equatability
    use community structure analysis

index of richness
    use community structure analysis

index of species similarity
    use community structure analysis

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, toxaphene, trichlorfon

kelthane
    use dicofol

kepone (water) - insecticide
    none

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)
none

mercury (interstitial)
none

mercury (sediment)
69

mercury (suspended)
none

mercury (water)
69

mercury in bio material (bottom)
none

mercury in bio material (water)
none

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

migration study of benthic animals (bottom)
none

mirex (sediment) - pesticide
none

mirex (water)
none

mirex in bio material (water)
none

mortality of benthic animals (bottom)
21

mortality of benthic plants (bottom)
none

mortality of demersal fish (water)
none

mortality of pelagic fish (water)
none

mortality of phytoplankton (water)
none

mortality of zooplankton (water)
69

neburon (water) - herbicide
none

nephelometry
use light scattering coefficient (water)

nickel (dissolved)
none

nickel (interstitial)
none

nickel (sediment)
69

nickel (suspended)
none

nickel (water)
69

nickel in bio material (bottom)
none

nickel in bio material (sediment)
none

nickel in bio material (water)
none

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)
69

oils (water)
69

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

particulate matter
    13

PCB
    use polychlorinated biphenyls

pelagic fish
    use count, mortality, species determination

perthane (water) - insecticide
    none

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

phenols (dissolved)
none

phenols (sediment)
none

phenols (water)
none

phenols in bio material (water)
none

phorate
use thimet

phosdrin (water) - insecticide
none

phytoplankton
use count, mortality, species determination

polychlorinated biphenyls (sediment)
none

polychlorinated biphenyls (water)
none

polychlorinated biphenyls in bio material (bottom)
none

polychlorinated biphenyls in bio material (water)
none

population
use count

radium -226 (water)
none

radium -228 (water)
none

rank analysis
use community structure analysis

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)
    none

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

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

toxaphene (sediment) - insecticide
    none

toxaphene (water)
    none

transparency
    use light attenuation

toxaphene in bio material (bottom)
    none

toxaphene in bio material (water)
    none

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

turbidity
use light attenuation, light scattering coefficient (water)

vegadex
use CDEC

volume determination of benthic animals (bottom)
none

volume determination of benthic plants (bottom)
none

weight of benthic animals (bottom)
none

weight of benthic plants (bottom)
6

yield of benthic plants (bottom)
none

zinc (dissolved)
none

zinc (interstitial)
none

zinc (sediment)
69

zinc (suspended)
none

zinc (water)
69

zinc in bio material (bottom)
    none

zinc in bio material (sediment)
    none

zinc in bio material (water)
    none

zooplankton
    use count, mortality, species determination

ANNEX III

Monitoring Programs

Dredging and Spoil Disposal

The monitoring programs identified for this report form three categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 5 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.

DATA COLLECTED: JANUARY 1952 TO JANUARY 1973

MONITORING PROJECTS:
GATX CORPORATION PROPOSED TERMINAL FACILITY ON THE DELAWARE RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., NEW JERSEY, DELAWARE RIVER, GLOUCESTER COUNTY, WEST DEPTFORD TOWNSHIP

ABSTRACT:
IN PUTTING TOGETHER AN ENVIRONMENTAL IMPACT STATEMENT FOR THE PROPOSED CONSTRUCTION OF THE GATX CORPORATION'S TERMINAL FACILITY ON THE DELAWARE RIVER NEAR WEST DEPTFORD TOWNSHIP, NEW JERSEY, THE U.S. ARMY CORPS OF ENGINEERS COMPILED DATA BASELINE SURVEYS FROM 1952 TO THE PRESENT. AN OVERALL ASSESSMENT OF LOCAL TOPOGRAPHY, HYDROLOGY, ECOSYSTEMS, WATER AND AIR QUALITY, AND CLIMATE WAS MADE IN RELATIONSHIP TO THE EFFECTS OF THE PROPOSED ACTION.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROY DENMARK 215-297-2944
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
2nd AND CHESNUT STREETS
PHILADELPHIA, PENNSYLVANIA, USA 19106

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 59.

DATA COLLECTED: JANUARY 1970 TO PRESENT

MONITORING PROJECTS:
BIOLOGICAL REPORTS FOR PERMIT APPLICATIONS TO ALTER MARSHLANDS, ESTUARINE BOTTOMS, TIDELANDS AND STATE-OWNED LAKES OF NORTH CAROLINA

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

ABSTRACT:
BIOLOGICAL REPORTS WHICH DETERMINE EFFECTS OF BUILDING AND DREDGING PROJECTS ON COASTAL MARSHLANDS, ESTUARINE BOTTOMS, TIDELANDS AND STATE-OWNED LAKES. AERIAL PHOTOGRAPHY IS USED TO MONITOR ANY BUILDING OR DREDGING PERMIT VIOLATIONS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JAMES T. BROWN 919-726-7021
DIVISION OF COMMERCIAL AND SPORTS FISHERIES
NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
P.O. BOX 769
MOOREHEAD CITY, NORTH CAROLINA, USA 28557

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 40.

DATA COLLECTED: JANUARY 1972 TO PRESENT

MONITORING PROJECTS:
SPOILED WETLANDS RECOVERY STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., MARYLAND, QUEEN ANN COUNTY

ABSTRACT:
A STUDY OF VEGETATIVE REHABITATION OF THREE DISTURBED MARSHES IN QUEEN ANN COUNTY, MARYLAND IS BEING CONDUCTED. ALL SUBMERGENT AND EMERGENT PLANTS TO 3 FOOT WATER DEPTH AT THREE DISTURBED AREAS AND 52 STATIONS PER DISTURBED AREA ARE BEING STUDIED. SAMPLES ARE TAKEN EARLY AND LATE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JAMES R. GOLDBERRY, DIRECTOR 301-267-5195
MARYLAND WILDLIFE ADMINISTRATION
DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 61.

DATA COLLECTED: JUNE 1972 TO PRESENT

MONITORING PROJECTS:
ENVIRONMENTAL CONSULTATION-WETLANDS, LYNNHAVEN AREA OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER

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

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY, LYNNHAVEN BAY AND ELIZABETH RIVER, VA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:

COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 29.

DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT

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

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
W.R. CARTER 301-269-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 6.

DATA COLLECTED: JANUARY 1974 TO PRESENT

MONITORING PROJECTS:
SPOIL STUDIES ON THE EASTERN SHORE OF MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., MARYLAND, QUEEN ANN, SOMERSET, WACOMICO AND DORCHESTER COUNTIES

ABSTRACT:
A STUDY OF VEGETATIVE REHABITATION OF 6 SPOIL SITES ON THE BAY SIDE OF THE EASTERN SHORE, MARYLAND IS BEING CONDUCTED. REHABITATION STUDY OF 6 SPOIL SITES CONSISTS OF ONE CROSS TRANSECT AT EACH SITE. SAMPLES ARE TAKEN EVERY 50 FEET ALONG TRANSECT ARM. VEGETATIONAL APPEARANCE AND SPECIES LIST FOR BOTH SUPER AND INTER-TIDAL SAMPLES ARE NOTED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JAMES R. GOLDBERRY, DIRECTOR 301-267-5195
MARYLAND WILDLIFE ADMINISTRATION
DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 63.

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