

United States  
Environmental Protection  
Agency

Office of Water  
(WH-556F)

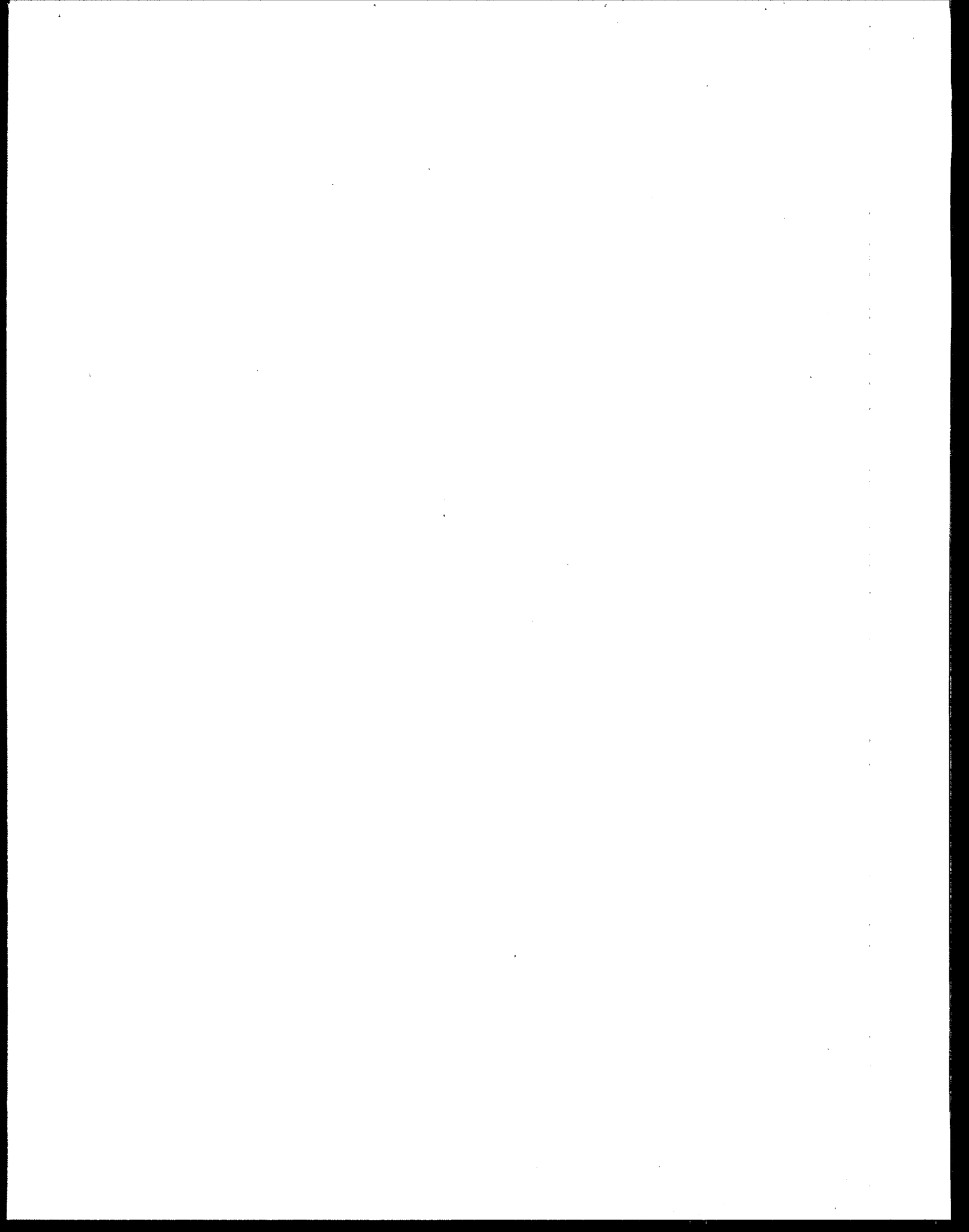
September 1993  
EPA840-B-93-002



# Office of Wetlands, Oceans and Watersheds 1993 Publication List

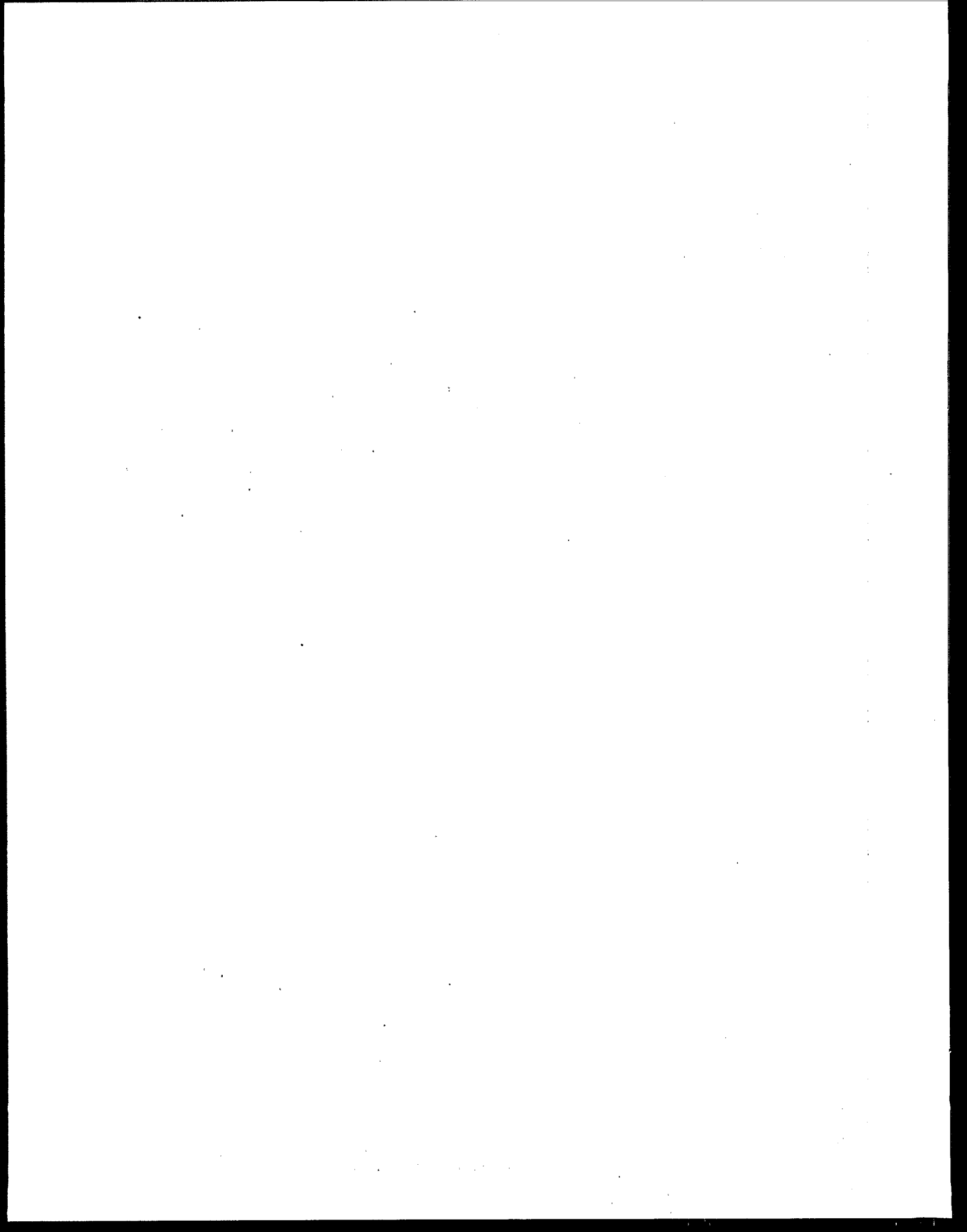


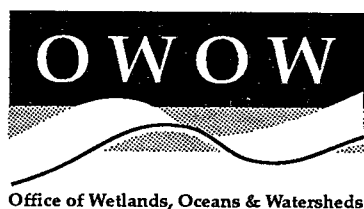
Office of Wetlands, Oceans & Watersheds



## Introduction

*EPA's Office of Wetlands, Oceans and Watersheds (OWOW) was created in April 1991. OWOW combines EPA's responsibilities for addressing nonpoint source pollution, restoring and protecting wetlands, lakes, rivers, coastal and marine environments, and coordinating surface water monitoring and water quality assessment activities.*

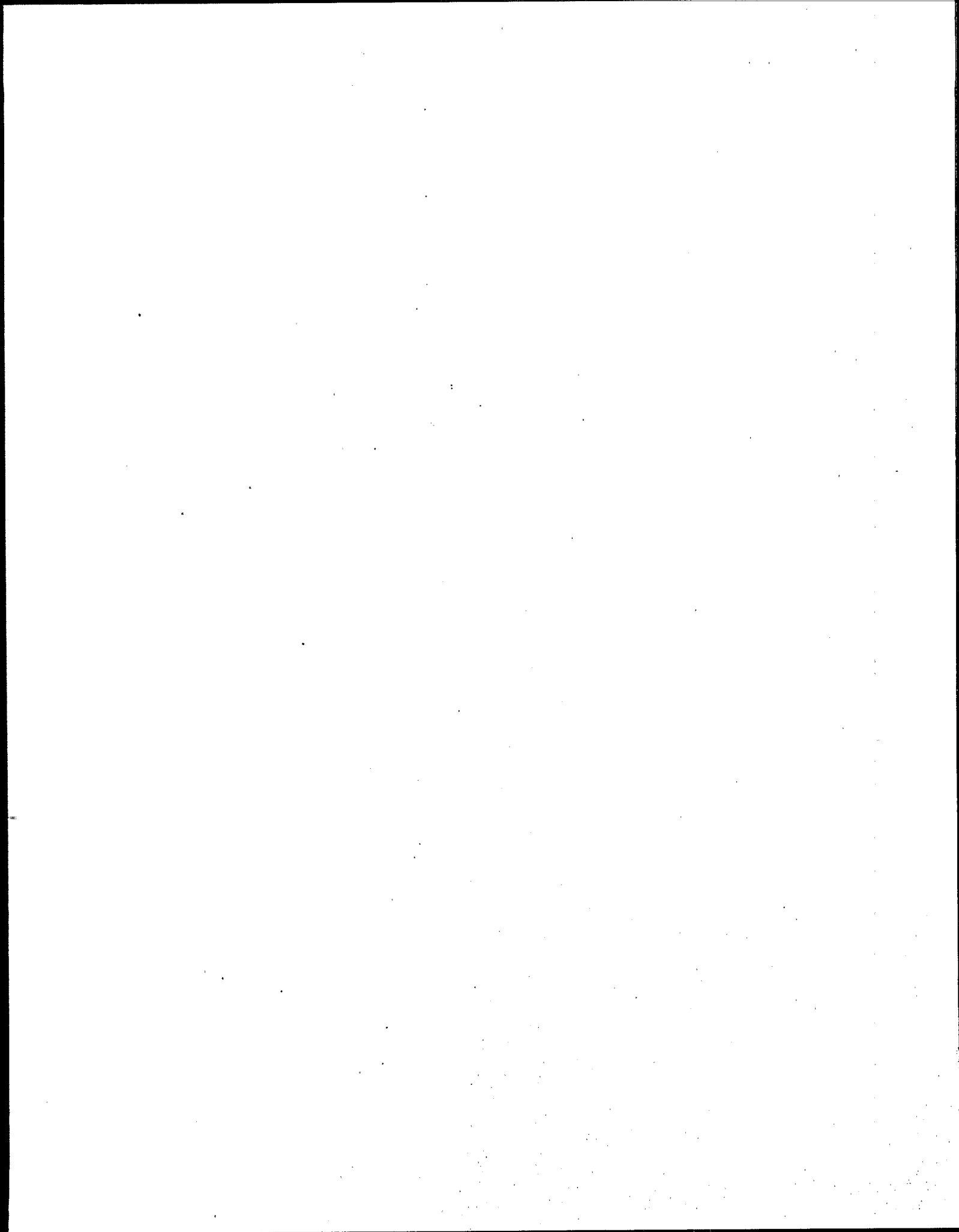




# Office of Wetlands, Oceans and Watersheds Publications

## Table of Contents

<i>Instructions.....</i>	<i>1</i>
<i>Organization.....</i>	<i>1</i>
<i>Entry Format.....</i>	<i>1</i>
<i>Ordering Information.....</i>	<i>2</i>
 <i>Wetlands.....</i>	 <i>3</i>
<i>General.....</i>	<i>3</i>
<i>Technical.....</i>	<i>6</i>
 <i>Oceans/ Coastal.....</i>	 <i>7</i>
<i>General.....</i>	<i>7</i>
<i>Technical.....</i>	<i>9</i>
 <i>Watershed Protection.....</i>	 <i>10</i>
<i>General.....</i>	<i>10</i>
<i>Technical.....</i>	<i>12</i>
 <i>Nonpoint Source.....</i>	 <i>13</i>
<i>General.....</i>	<i>13</i>
<i>Technical.....</i>	<i>15</i>
 <i>Data Management.....</i>	 <i>17</i>
<i>Technical.....</i>	<i>17</i>
 <i>Water Quality Assessment and Monitoring.....</i>	 <i>18</i>
<i>General.....</i>	<i>18</i>
<i>Technical.....</i>	<i>20</i>
 <i>Bulletins.....</i>	 <i>24</i>
 <i>Publication Order Form.....</i>	 <i>26</i>
 <i>Bulletin Order Form.....</i>	 <i>28</i>



# Instructions

## Organization

The publications in this list are divided into seven topic areas. Each topic, except Bulletins, has two sections: General and Technical. *General publications* can be easily understood by the lay reader. *Technical publications* are scientific or regulatory in nature and require an understanding of the program area.

- **Wetlands:** wetlands uses, protection and regulation of wetlands
- **Oceans/Coastal:** ocean discharges, ocean surveys, marine and estuarine protection programs
- **Watershed Protection:** lake and reservoir protection and restoration, basin-wide protection approaches
- **Nonpoint Source:** prevention and treatment of agricultural and urban runoff
- **Data Management:** information systems documentation and data quality assurance/quality control (QA/QC) guidance
- **Water Quality Assessment & Monitoring:** volunteer monitoring, ocean discharge, water quality reports, bioaccumulation, and water quality monitoring guidance
- **Bulletins:** cut across all topic areas, disseminate information to a targeted group of readers on a variety of production schedules

**NOTE:** Topic areas are broadly defined. Publications are not cross referenced. Since there may be some overlap, review the entire list.

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## Entry Format

### Title

Publication Number

Publication Date

### Description (Number of Pages)

#### Example:

*Progress in the National Estuary Program,  
Report to Congress*

EPA503/9-90/005

2/90

Provides an overview of National Estuary Program activities and accomplishments through 1989. Summarizes research undertaken through the program. (44 pgs.)

**NOTE:** Some entries may not have a publication number or publication date.

## *Ordering Information*

To order Wetlands publications, call the EPA Wetlands Protection Hotline (contractor operated) at 1-800-832-7828. Hotline hours of operation are Monday - Friday, 9:00 am to 5:30 pm (EST).

To order most other General or Technical publications, use the Publications Order Form on page 26 of this booklet. Include the publication number and title. Due to limited supply, we can supply only one copy of each publication per person.

Several publications can not be obtained by using the Publications Order Form. Sources for these publications are noted at the end of the description of the publication.

To subscribe to a Bulletin, place a X next to the title on the Bulletins Order Form on page 28.

Clearly print your name, address, and daytime telephone number. Return completed order forms to address indicated on order form.

If the Order Forms are missing, please submit your order on a plain piece of paper to: Office of Wetlands, Oceans, and Watersheds, U.S. Environmental Protection Agency, 401 M Street, SW (WH-556F), Washington, DC 20460.

*Most publications are free*



# Wetlands

*Agriculture and Wetlands:  
A Compilation of Fact Sheets*  
EPA 503-9-92-003  
6/92

*America's Wetlands:  
Our Vital Link Between Land and Water*  
OPA-87-016  
2/88

*American Wetlands*  
4/93

*An Approach to Improving Decision  
Making in Wetlands Restoration and  
Creation*  
EPA600-R-92-150  
8/92

*"Audubon's America" —  
A Cooperative Conservation Project*  
1991

## General

Emphasizes the relationship between farming and wetlands protection, but provides important information in a concise manner to the non-farming public as well. Topics covered are listed below.

*Finding Common Ground —*

*The Roles and Responsibilities of Federal Agencies in  
Protecting and Managing Wetlands —*

*Opening Communications and Finding Answers —*

*Section 404 and Swampbuster —*

*The Federal Manual for Identifying and Delineating  
Jurisdictional Wetlands —*

*Section 404(f) Exemptions and Nationwide General Permits*

*Studies and Research to Improve Our Knowledge —*

Describes what wetlands are, the different types of American wetlands, and EPA's role in wetlands protection. Explains the values and ecological functions of wetlands, as well as protection methods. Summarizes the status and trends of wetland losses in the United States. (8 pgs.)

Explains what wetlands are and identifies the values and functions of wetlands. Prepared for the annual American Wetlands Month celebration held in May of each year, and lists groups that co-sponsored that event. Lists activities that individuals can undertake to celebrate American Wetlands. (2 pgs.)

Presents a summary of the approach that EPA's Wetlands Research Program has developed to improve decision making in wetland restoration and creation projects. (151 pgs.)

Describes a proposal between EPA and the National Audubon Society to develop a cooperative public and private system of connected natural areas within a thirty-four state region. The goal of the project is to protect, conserve, restore, enhance, recognize, and commemorate the significant natural and cultural values of land and water areas where the renown naturalist John James Audubon lived, traveled, wrote, painted, and observed. (19 pgs.)

***Beyond the Estuary:  
The Importance of Upstream Wetlands  
in Estuary Processes***  
EPA20W-5003  
6/90

Identifies the types of wetlands that are located above estuaries, and briefly outlines the functions those areas perform. Describes the relationships between these upstream wetland functions and estuarine processes. Also describes activities threatening the upstream wetlands and mechanisms for their protection. (8 pgs.)

***Catalog of State Wetlands Protection  
Grants: Fiscal Year 1990, 1991, 1992***

Lists descriptions of State Wetlands Protection Grants awarded. The grants are available for a variety of purposes, including development of state wetlands conservation plans, wetlands water quality standards, and monitoring the status and trends of wetlands losses. Provides state agencies with examples of types of projects funded and grant application guidance.

***EPA Regional Office  
Wetlands Contacts Directory***  
2/92

Consists of a map of EPA Regions with a list of Wetlands Division contacts' names, addresses, and phone numbers within each Regional office. (1 pg.)

***EPA's Wetlands Protection Program***  
9/89

Describes EPA's role in the Section 404 program and wetlands protection. Also outlines wetlands functions, values, threats to wetlands, and wetlands losses. (Compilation of fact sheets - 14 pgs.)

***EPA Wetlands Fact Sheets***  
3/93

A series of easy-to-read fact sheets designed to provide basic information on issues surrounding wetlands, including wetlands delineation, consequences of wetlands loss, takings, State roles in wetlands protection, mitigation banking, wetlands and agriculture, partnerships with property owners, wetland planning programs and more. (32 fact sheets)

***Financing State Wetlands Programs***  
11/90

Reviews traditional funding mechanisms for wetlands protection, such as Federal regulatory and non-regulatory programs. Discusses several alternative funding mechanisms, including taxes, fees, and fines. Discusses factors states may want to consider when selecting financing mechanisms. Prepared by APOGEE Research Inc. (88 pgs.)

***A Guide to Agricultural  
Wetlands Protection —  
National Governors Association***  
1991

Briefly describes the Section 404 program and lists the agricultural exemptions. (14 pgs.)

***Highlights of Section 404***  
10/89

Provides a basic understanding of the Clean Water Act Section 404 program. Describes the geographic scope of Section 404 and the activities regulated under this section. (9 pgs.)

***Private Landowner's Wetlands Assistance  
Guide: Voluntary Options for Wetlands  
Stewardship in Maryland***  
10/92

Contains information on selecting a resource management plan for private landowners interested in voluntary wetlands stewardship. Describes existing voluntary options and programs and contains a list of contacts. The guide was written for field staffs of Federal, State, and local agencies, and private and nonprofit organizations. (38 pgs.)

***Steps in State  
and Local Greenway Planning***  
2/88

***Summary of Section 319(h) Wetlands  
and Riparian Projects:***  
***Fiscal Years 1990 and 1991***  
EPA843-S-92-001  
3/92

***A Synoptic Approach to Cumulative  
Impact Assessment - A Proposed  
Methodology***  
EPA600-R-92-167  
10/92

***Wetland and 401 Certification  
(Opportunities and Guidelines  
for States and Eligible Indian Tribes)***  
4/89

***Wetlands Conservation Through Local  
Community Programs***  
1991

***Wetlands Hotline Fact Sheet***  
3/93

***Wetlands Protection:  
A Local Government Handbook***  
9/91

***Why Develop a State Wetlands  
Conservation Plan?***  
2/93

Explains a river corridor planning process and the greenway conservation strategy. Reprint of article prepared for an EPA Conference on Multiobjective Greenways and the Coordination of Wetlands and Floodplain Programs in February 1988 (19 pgs.)

Briefly describes the wetlands or riparian component in state nonpoint source projects funded under Section 319(h) in FY 1990 and 1991. Organized into five sections: restoration and protection projects, program administration, education and technical training, constructed wetlands, and other projects of interest. Identifies an EPA Regional or state contact for each project. (52 pgs.)

Describes the steps of conducting a synoptic assessment and illustrates the use of synoptic information through four case studies. The synoptic approach is designed to assist wetland regulators in assessing the cumulative effect of individual wetland impacts within the landscape and is intended for situations in which time, resources, and information are limited. (129 pgs.)

Examines the Section 401 state water quality certification process and how it applies to wetlands. States are encouraged to use this handbook when establishing a wetlands protection program or improving wetlands protection tools. (64 pgs.)

Introduces community planners and decisionmakers to various aspects of local wetlands conservation programs. Provides suggestions on developing and implementing a local wetlands conservation program based on existing programs. Submitted to EPA by the University of New Orleans. (89 pgs.)

Describes the functions of the Wetlands Protection Hotline, and provides the Hotline's hours of operation, telephone number, and address. (1 pg.)

Contains a review of wetlands values and functions, Federal wetlands regulations, and examples of state and local regulations. Provides local officials, planners, and citizens with a background for understanding wetlands issues, and illustrates that actions at the local level can help achieve the goal of no net loss of wetlands. Produced by the American Planning Association. (31 pgs.)

Describes the Advantages of State Wetlands Conservation Plans, the key components, EPA's role in helping States develop State Wetland Conservation Plans, and sources of more information (including grant sources). (9 pgs.)

## Technical

**Environmental Protection Agency:  
404(b)(1) Guidelines**  
12/80

Contains the substantive environmental criteria used by EPA and the Army Corps of Engineers in evaluating discharges of dredged or fill material under Section 404 of the Clean Water Act. Codified under 40 CFR Part 230. This document is a reprint of the rule published on December 24, 1980 (45 FR 85336) titled "Guidelines for Specification of Disposal Sites for Dredged or Fill Material." (22 pgs.)

**Farming and Section 404 of the Clean  
Water Act**  
1993

Describes the application of Section 404 regulatory policies to farming activities and Section 404's relationship to the Swampbuster provision of the Food, Agriculture, Conservation and Trade Act of 1990 through question/answer format. Provides a decision tree for determining if a Section 404 permit is needed for a farming activity. (2 pgs.)

**Guidance on Developing Local Wetlands  
Projects**  
1991

Case studies describing types of wetlands programs, the methods of implementation, and the successes and failures resulting from the establishment of these programs. Submitted to EPA by the New England Interstate Water Pollution Control Commission. (37 pgs.)

**Memorandum of Agreement  
(MOA) on Enforcement**  
1/89

Establishes policy and procedures pursuant to which the Department of the Army and EPA will undertake Federal enforcement of the Section 404 dredge and fill material permit requirement. Issued jointly by the Department of the Army and EPA. (9 pgs.)

**Memorandum of Agreement  
(MOA) on Jurisdiction/Exemptions**  
1/89

Establishes the policy and procedures pursuant to which the Department of the Army and EPA will determine the geographic jurisdictional scope of waters of the United States and the application of the exemptions under Section 404(f) of the Clean Water Act. Issued jointly by the Department of the Army and EPA. (6 pgs.)

**Memorandum of Agreement  
(MOA) on Mitigation**  
2/90

Explains the policy and procedures to be used in determining the type and level of mitigation necessary to demonstrate compliance with the Clean Water Act Section 404(b)(1) Guidelines. Issued jointly by the Department of the Army and EPA. (6 pgs.)

**National Guidance: Water Quality  
Standards for Wetlands**  
1990

Provides program guidance to States on ensuring effective application of water quality standards to wetlands. This guidance reflects the level of achievement EPA expects the States to accomplish by the end of FY 1993, including: (1) developing methods in the definition of State waters; (2) designating uses for all wetlands; (3) adopting appropriate criteria for wetlands; and (4) applying the antidegradation policy and implementation methods to wetlands. (66 pgs.)

**National Guidance: Wetlands and  
Nonpoint Source Control**  
1990

Encourages coordination of nonpoint source and wetlands programs in attaining water quality goals shared by both programs. This guidance is applicable to both EPA and States. (25 pgs.)

**Natural Wetlands and Urban Stormwater:  
Potential Impacts and Management**  
EPA843-R-001  
2/93

Describes issues related to the impacts of uncontrolled stormwater and urban runoff on natural wetlands. Explores various recommended options for managing these systems. (76 pgs.)

**Proposed Revisions to the Federal Manual  
for Identifying and Delineating  
Jurisdictional Wetlands (56 FR 40446)**  
8/91

Includes questions and answers on proposed revisions to the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands, the White House fact sheet entitled "Protecting America's Wetlands," and a side-by-side comparison of the 1989 Manual and the Proposed Revised Manual. Contains the August 14, 1991, Federal Register notice (56 FR 40446) of the revisions proposed by EPA, Army Corps of Engineers, Department of Agriculture Soil Conservation Service, and Department of Interior Fish and Wildlife Service. (76 pgs.)

**Regulations on Permit Exemptions and  
State Program Assumption (40 CFR 232 &  
233)**  
6/88

Contains 404 program definitions, 404(f) permit exemptions, and the procedures and criteria used in approving, reviewing, and withdrawing approval of state 404 programs. This final rule was issued by EPA on June 6, 1988. (24 pgs.)

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To order Wetlands Publications, call the EPA Wetlands Protection Hotline (contractor operated), 1-800-832-7828.

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## Oceans/Coastal

### General

**Enforcement for Coastal Protection**  
EPA842-K-91-001  
10/91

Explains coastal resources at risk, sources and impacts of degradation, and federal laws protecting coastal resources. Presents an integrated approach to enforcement with specific examples and success stories. (8 pgs.)

**EPA Journal:  
The Marine Environment**  
Volume 14 Number 5  
EPA175-N-88-100  
6/88

Focuses on pollution threats to oceans, challenges to global marine protection, and efforts to improve marine resources. (40 pgs.)

**Financing Marine and Estuarine  
Programs: A Guide to Resources**  
EPA503-8-88-001  
9/88

Presents 11 case studies demonstrating innovative and successful approaches to finance environmental programs. (101 pgs.)

**The Global Oceans Directory**  
EPA842-B-92-001  
9/92

This directory provides profiles of Federal agencies, United Nations agencies, non-governmental organizations, and Canadian Agencies that are involved in ocean conservation and resource management. A list of North American Marine Policy Centers is also included. (175 pgs.)

***The National Estuary Program After Four Years: A Report to Congress***  
EPA503-9-92-007  
7/92

Provides an update on the National Estuary Program (NEP) and work being done in 17 sites across the nation. The NEP addresses critical problems of the nation's estuaries and coastal areas, particularly those related to cumulative impacts of growth and development, nonpoint source pollution, and loss of natural habitats. (97 pgs.)

***The O.S.V. Anderson: Working to Protect Our Oceans and Coasts***  
EPA842-K-92-001  
9/92

Describes the activities of the O.S.V. Anderson, EPA's ocean research vessel. (16 pgs.)

***Portraits of Our Coastal Waters — Supplement to the National Water Quality Inventory***  
EPA503-2-91-004  
6/91

Contains eight descriptive narratives highlighting coastal and estuarine environmental problems for unique geographic areas. Provides an assessment of the diverse and complex environmental problems encountered in these areas. Describes programs and initiatives designed to improve and protect the nation's coastal waters. (31 pgs.)

***Progress in the National Estuary Program, Report to Congress***  
EPA503/9-90/005  
2/90

Provides an overview of National Estuary Program activities and accomplishments through 1989. Summarizes research undertaken through the program. (44 pgs.)

***Protecting Coastal and Wetlands Resources: A Guide for Local Governments***  
EPA842-R-92-002  
4/92

A hands-on guide designed to help elected officials and concerned citizens from coastal communities learn about a variety of approaches for managing their coastal and wetlands resources. The guide contains a comprehensive review of resource management and planning tools as well as 19 case studies. (187 pgs.)

***Protecting Our Nation's Marine and Coastal Waters: OSV Peter W. Anderson***  
EPA503-9-91-001  
11/90

Describes the activities of the Ocean Survey Vessel Peter W. Anderson, EPA's ocean research vessel. (2 pgs.)

***Report to Congress on Implementation of Section 403(c) of the Federal Water Pollution Control Act***  
EPA503-6-90-001  
6/90

Describes EPA activities for implementing Section 403(c) of the Clean Water Act and for achieving compliance with guidelines promulgated under Section 403(c), including an estimate of resources required. Section 403(c) applies to discharges into the waters of the territorial sea, the contiguous zone, and the oceans. (131 pgs.)

***Report to Congress on Ocean Dumping 1987-1990***  
EPA503-9-91-009  
9/91

Summarizes EPA's activities in regulating and monitoring incineration-at-sea and ocean disposal of sewage sludge, industrial waste, and dredged materials. (58 pgs.)

***Save Our Seas: Help Stop Marine Debris***  
EPA842-H-92-001  
9/92

This two-sided poster highlights the main aspects of the marine debris problem and what individuals can do to become part of a solution to the problem. The back side of the poster features a board game from *Turning the Tide on Trash: A Learning Guide on Marine Debris*.

*Strategic Assessment of Near Coastal Waters: Northeast Case Study*  
EPA503-6-88-000  
7/88

Contains the results of a joint EPA-National Oceanic and Atmospheric Administration case study in 17 estuaries of the northeast United States. Presents resource assessments in the following areas: physical and hydrological characteristics, land use and population, nutrient discharges to estuaries, classified shellfish waters, toxic discharges to estuaries and hazardous waste disposal sites, coastal wetlands, and public outdoor facilities. (175 pgs.)

*Summary of Implementation and Demonstration Projects in Bays and Estuaries*  
EPA842-8-92-009  
10/92

Describes small-scale demonstration projects in the National Estuary Program and Chesapeake Bay Program to test the effectiveness of approaches for addressing estuarine problems. (50 pgs.)

*Turning the Tide on Trash: A Learning Guide on Marine Debris*  
EPA842-B-92-003  
9/92

This guide focuses on the problem of marine debris and teaches ways that children can become part of the solution to the problem. This guide targets grade school children. (78 pgs.)

## Technical

*Dredged Material Ocean Dumping Reference Document*  
EPA842-B-92-006  
9/92

An annotated bibliography of essential and secondary policy and technical dredged material reference documents that can be cited by EPA Headquarters and Regional staff. (15 pgs.)

*Economics of Improved Estuarine Water Quality: An NEP Manual for Measuring Benefits*  
EPA503-5-90-001  
9/90

Helps managers evaluate the economic benefits of various water pollution abatement options. Presents concepts of economic benefit, describes how pollution abatement can generate benefits, and explains methodologies for measuring benefits. (79 pgs.)

*Final Report: Plastic Pellets in the Aquatic Environment: Sources and Recommendations*  
EPA842-B-92-010  
12/92

This report describes the results of EPA's comprehensive assessment of the sources, fate, and effects of plastic pellets in the aquatic environment and provides recommendations about what can be done to control and prevent their release to the environment. (110 pgs.)

*Guidance Manual for the Review of Permitted and Civil Works Projects for the Ocean Disposal of Dredged Material*  
EPA8452-B-92-007  
12/92

Offers procedural and technical guidance to EPA Regional staff in their independent review of proposals for disposing of dredged material in ocean waters under the MPRSA. Responsibilities of the EPA and the USACE under related programs and statutes are briefly described to explain the statutory and programmatic relationship between the two agencies in regulating ocean disposal practices. (300 pgs.)

**INSEA User's Manual:  
Environmental Performance Model  
of Incineration at Sea Operations**  
EPA556-1-87-001  
8/87

Describes screening tools to estimate the maximum allowable concentration of waste that can be incinerated at sea without exceeding standards for marine aquatic life. Based on 1986-87 data. (161 pgs.)

**Monitoring Guidance for the National  
Estuary Program - Final**  
EPA842-B-92-004  
9/92

Provides the National Estuary Program with guidance on how to design, implement, and evaluate a monitoring program. This document is of use to all coastal and marine managers with monitoring responsibilities. (355 pgs.)

**Monitoring, Research, and Surveillance  
Plan for Deepwater Municipal Sludge  
Dump Site and Environs**  
EPA503-4-91-001  
12/90

Presents a joint EPA, NOAA, and USGS Monitoring and Research Plan for the 106-Mile Site used for disposal of municipal sewage sludge from the New York/New Jersey Metropolitan Area. (115 pgs.)

**National Estuary Program Guidance: Base  
Program Analysis**  
EPA842-B-93-001

Provides guidance for National Estuary Programs on conducting a management characterization, or base program analysis. (20 pgs.)

**National Estuary Program Guidance:  
Comprehensive Conservation and  
Management Plans: Content and Approval  
Guidance**  
EPA842-B-92-002

Provides a practical reference for National Estuary Program Management Conferences, EPA Regional Project Officers, and state Program Directors during development of Comprehensive Conservation and Management Plans (CCMPs). Describes the requirements for approvable CCMPs and the process CCMPs must undergo to be approved by the EPA Administrator. (50 pgs.)

**Proceedings of the Workshop  
on the Sea-Surface Microlayer  
in Relation to Ocean Disposal**  
EPA556-1-87-005  
8/87

Contains proceedings, results, recommendations, and technical papers from a workshop to assess the impacts of ocean waste disposal on the sea surface microlayer, the upper millimeter or less of the water surface. Relates basic conceptual models to the fate and potential effects of residuals from ocean disposal, identifies research needs and approaches, and describes a scientifically-defensible monitoring program for the sea-surface microlayer. (120 pgs.)

## **Watershed Protection**

### **General**

**A Commitment to Watershed Protection: A  
Review of the Clean Lakes Program**  
EPA841-R-93-001  
2/93

Drawing on interviews with federal, state, and local agency representatives and citizens who have been involved with the Clean Lakes Program, this report presents the successes of the program through using an integrated watershed approach and the principles underlying this success. (52 pgs.)



*Agriculture and the Environment*  
EPA840-F-93-001  
8/93

A folder containing four fact sheets that address watershed management and nonpoint source pollution in agricultural areas. The fact sheets include:

*Our Water Resources and Watershed Protection* (EPA840-F-93-001a)

*The Problem of Nonpoint Source Pollution* (EPA840-F-93-001b)

*Management Measures for Controlling Coastal Nonpoint Source Pollution* (EPA840-93-F-001c)

*For Further Information and Assistance* (EPA840-F-93-001d)

*National Geography Awareness Week,  
Nov. 15-21, 1992 Teacher's Packet*  
EPA840-F-92-003  
9/92

Includes a teacher's handbook, poster and map, hazardous waste chart, and UPDATE Newsletter. The theme for 1992 was "Geography: Reflections on Water." Provides information and lesson ideas on a number of water issues including the hydrologic cycle, conservation, groundwater, wastewater, watersheds, and wetlands.

*Protecting the Nation's Wetlands, Oceans  
and Watersheds: An Overview of Programs  
and Activities*  
EPA840-S-92-001  
7/92

An overview of the responsibilities, programs and activities carried out by EPA's Office of Wetlands, Oceans and Watersheds. (20 pgs.)

*The Watershed Protection Approach:  
Annual Report 1992*  
EPA840-S-93-001  
1/93

Summarizes activities in EPA Headquarters and Regions to adopt and implement watershed management. More than 30 project summaries are included. (58 pgs.)

*The Watershed Protection Approach:  
An Overview*  
EPA503-9-92-002  
12/91

Describes the Watershed Protection Approach, a basin-wide approach to water protection that encompasses dynamic ecological relationships. Presents watershed protection programs at various government levels. (8 pgs.)

*Watershed Protection: Catalog of Federal  
Programs*  
EPA841-B-93-002  
3/93

A directory of federal programs that contribute to and participate in watershed management. (107 pgs.)

*Xeriscape Landscaping: Preventing  
Pollution and Using Resources Wisely*  
EPA840-B-93-001  
4/93

Describes landscaping and gardening methods that promote pollution prevention, water conservation, and sustainable resources, including public/private partnerships to promote resource efficient landscaping.

## Technical

*Fish and Fisheries Management in Lakes and Reservoirs: Technical Supplement to the Lake and Reservoir Restoration Guidance Manual*  
EPA841-R-93-002  
5/93

*Guidance for Water Quality-Based Decisions: The TMDL Process*  
EPA440-4-91-001  
4/91

*The Lake and Reservoir Restoration Guidance Manual (Second Edition)*  
EPA440-4-90-006  
8/90

*Lake Restoration: Proceedings of a National Conference*  
EPA440-5-79-001  
1979

*Modeling Phosphorous Loading and Lake Response Under Uncertainty: A Manual and Compilation of Export Coefficients*  
EPA440-5-80-011  
1980

*Monitoring Lake and Reservoir Restoration: Technical Supplement to the Lake and Reservoir Restoration Guidance Manual*  
EPA440-4-90-007  
8/90

Focuses on the management of fisheries and lake water quality. An important objective of this manual is to encourage the development of an integrated lake management program that assesses fish, other biota, the physical and chemical characteristics of the lake habitat, and the associated watershed as an interdependent unit. (321 pgs.)

Provides program policy guidance and procedures for carrying out the water quality planning process under Section 303(d) of the Clean Water Act. Describes EPA and state policies for identification of waters needing water quality-based controls, priority-setting and targeting, and development of pollution control plans, referred to in the Clean Water Act as Total Maximum Daily Loads (TMDLs). (58 pgs.) Available only from Peggy Michell, (202) 260-5378. Mailing address: U.S. EPA, Assessment and Watershed Protection Division (WH-553), 401 M St., SW, Washington, D.C. 20460.

Written for informed citizens who are interested in protecting, restoring, and managing lakes. Focuses on four areas: identifying lake problems, evaluating management practices for addressing problems or for protecting water quality, developing a site-specific management plan, and implementing and evaluating lake management plans. Includes a hypothetical case study, point source techniques, best management practices, and state and provincial lake management programs. (326 pgs.)

Compilations of presentations from a national conference on lake protection, management, and restoration issues. (254 pgs.) Available only through the Clean Lakes Program, (202) 260-5404. Mailing address: U.S. EPA, Clean Lakes Program (WH-553), 401 M St., SW, Washington, D.C. 20460.

Presents an illustrated, step-by-step procedure that may be used to quantify the relationship between land use and lake trophic quality. Aids the analyst in the selection of appropriate export coefficients and in the interpretation of the results of an application of this methodology. Includes a section on estimating nonparametric prediction intervals. (223 pgs.)

Explains how to design and implement a lake monitoring program during and following a lake restoration project. Describes monitoring methods for both the waterbed and the watershed. Provides recommendations for consistent monitoring methods and quality assurance procedures to assist lake managers and researchers. Includes a fold-out Geological Survey map illustrating the average annual runoff in the United States. (130 pgs.)

*National Conference on Enhancing States'  
Lake Management Programs 1988*  
EPA841-S-88-103  
5/88

*National Conference on Enhancing  
the States' Lake and Wetland  
Management Programs 1989*  
EPA841-S-90-104  
2/90

*National Conference on Enhancing the  
States' Lake Management Programs 1990*  
EPA841-S-91-105  
1/91

*Quantitative Techniques for the  
Assessment of Lake Quality*  
EPA440-5-79-015  
1979

Proceedings from the 1988 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (148 pgs.) Available only through the Clean Lakes Program, (202) 260-5404. Mailing address: U.S. EPA, Clean Lakes Program (WH-553), 401 M St., SW, Washington, D.C. 20460.

Proceedings from the 1989 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (166 pgs.) Available only through the Clean Lakes Program, (202) 260-5404. Mailing address: U.S. EPA, Clean Lakes Program (WH-553), 401 M St., SW, Washington, D.C. 20460.

Proceedings from the 1990 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (98 pgs.) Available only through the Clean Lakes Program, (202) 260-5404. Mailing address: U.S. EPA, Clean Lakes Program (WH-553), 401 M St., SW, Washington, D.C. 20460.

Covers data analysis and sampling design, models, and lake classification in reference to phosphorus loadings in lakes. (146 pgs.) Available only through the Clean Lakes Program, (202) 260-5404. Mailing address: U.S. EPA, Clean Lakes Program (WH-553), 401 M St., SW, Washington, D.C. 20460.

## Nonpoint Source (NPS)

### General

*Administrator's Point/Nonpoint Source  
Trading Initiative Meeting Summary*  
EPA841-S-92-001  
8/92

*Creating Successful Nonpoint Source  
Programs: The Innovative Touch*  
EPA841-B-88-102  
8/88

A summary of the meeting held in Durham, North Carolina, April 27-28, 1992. The intent of point/nonpoint source trading is to spread the cost burden among all pollutant sources but to require greater reductions from those who can more easily and cost-effectively decrease their pollutant loads. (72 pgs.)

Presents 16 examples of successful innovative NPS programs and identifies techniques for developing innovative programs. (12 pgs.)

***EPA Journal: Nonpoint Source Pollution —  
Runoff of Rain and Snowmelt, Our Biggest  
Water Quality Problem***  
Volume 17 Number 5  
EPA841-N-91-100  
11-12/91

***Handle with Care: Your Guide  
to Preventing Water Pollution***  
EPA841-B-91-103  
1991

***Managing Nonpoint Source Pollution:  
Final Report to Congress on Section 319  
of the Clean Water Act (1989)***  
EPA841-R-92-101  
1/92

***Nonpoint Source Education/Demonstration  
Project Evaluation Report***  
EPA841-B-91-104  
2/91

***Nonpoint Source Pollution: Land Use  
and Water Quality***  
EPA841-B-79-105  
6/92

***Nonpoint Sources Agenda for the Future***  
EPA841-S-89-006  
1/89

***Polluted: Every Little Bit Hurts***  
EPA841-F-90-100  
1990

***Report to Congress: Nonpoint Source  
Pollution in the U.S.***  
EPA841-R-84-100  
1/84

Outlines the NPS water pollution problem, including the effects of agricultural chemicals, agricultural sediment, urban runoff, logging, abandoned mines, and construction. Presents issues and policy from the perspective of EPA, the Department of Agriculture, and the Office of Management and Budget. Describes possible solutions, and offers educational material for use in the classroom. (64 pgs.)

Describes NPS pollution generated by everyday activities. Contains household tips for reducing and preventing water pollution. Identifies state, regional, and federal NPS contacts. Prepared by the Terrene Institute. (36 pgs.) **Only available from Terrene Institute, 1000 Connecticut Ave., NW, Suite 802, Washington, D.C. 20036, (202) 833-8317. (Charge is made for this publication.)**

Focuses on the state of the national effort to control NPS pollution as of October 1, 1989. Includes state NPS assessment findings, state programs for addressing problems identified in the assessments, related activities of EPA, other Federal agencies, and others, and achievements to date on controlling NPS pollution. (197 pgs.)

Details 33 NPS abatement projects that were funded by the Ohio EPA from 1981 to 1987 to reduce NPS pollution by changing practices of individual landowners. Projects include efforts to reduce NPS pollution from crop and livestock production, on-site sewage disposal, and abandoned mine land. Prepared by Ohio EPA. (67 pgs.) **Only available from Ohio EPA, Water Quality Division, P.O. Box 1049, Columbus, OH 43266-0149, c/o Rich McClay, (614) 644-2879.**

Provides an overview of the NPS pollution problem and some possible solutions. Describes the agencies and programs involved in reducing NPS pollution. Contains references to the Wisconsin Nonpoint Source Program. Prepared by the Washington County (Wisconsin) Project with funds from EPA Region 5. (48 pgs.)

Defines EPA's commitment to a national NPS program during the five-year period 1989-1994. Outlines actions necessary to solve the problem of NPS in rivers, lakes, and streams. (30 pgs.)

Indicates sources and effects of water pollution. Provides methods to prevent water pollution. (2 pgs.)

Examines the nature and magnitude of NPS water quality problems, and outlines the key components of state strategies to prevent and control such pollution. Identifies NPS control approaches that are likely to result in the greatest water quality improvements. Compares point and NPS pollutant loadings nationally. (123 pgs.)

***Rural Clean Water Program***

EPA440-4-90-012

9/90

Aids state and local managers in developing management plans for controlling agricultural NPS pollution. Describes the successes, failures, and lessons learned in the Rural Clean Water Program (RCWP). Presents profiles of RCWP projects, and identifies RCWP contacts. (29 pgs.)

***Selecting Priority Nonpoint Source Projects:  
You Better Shop Around***

EPA506-2-89-003

8/89

Presents six examples of how states identify their priorities for treatment of NPS impaired or threatened water bodies. (39 pgs.)

***Seminar Publication: Nonpoint Source  
Watershed Workshop***

EPA625-4-91-027

9/91

Contains papers presented at the Nonpoint Source Watershed Workshop held on January 29-31, 1991, in New Orleans. Includes case studies used to guide group discussions, and presents conclusions reached by workshop participants. (209 pgs.)

## Technical

***Best Management Practices for Agricultural  
Nonpoint Source Control: IV. Pesticides***

EPA841-S-84-107

9/84

Describes the factors and available research results relevant to selecting the most appropriate pesticide Best Management Practices (BMPs) and BMP systems. Prepared for the Department of Agriculture and EPA by the Biological and Agricultural Engineering Department at North Carolina State University. (87 pgs.)

***Coastal Nonpoint Pollution Control  
Program***

EPA841-B-93-003

1/93

Addresses the processes and criteria that apply to development and approval of State coastal zone nonpoint source programs. (80 pgs.)

***A Current Assessment of Urban Best  
Management Practices***

Describes techniques for reducing nonpoint source pollution in the coastal zone. **Only available from the Metropolitan Washington Council of Governments, (202) 962-3256.**

***Evaluation of the Experimental Rural  
Clean Water Program***

EPA841-R-93-005

5/93

Presents the results of a comprehensive evaluation of the ten year experimental Rural Clean Water Program (RCWP). Evaluation conducted by the National Water Quality Evaluation Project at North Carolina State University (NCSU) in cooperations with USDA, EPA, and the 21 RCWP projects. (559 pgs.) **Only available from EPA Regional Libraries and Publications, NCSU, Water Quality Group, 615 Oberlin Road, Suite 100, Raleigh, NC 27605-1126.**

***Guidance Specifying Management Measures  
for Sources of Nonpoint Pollution in Coastal  
Waters***

EPA840-B-92-002A (3-hole punch)

EPA840-B-92-002B (bound)

1/93

Specifies technology-based management measures to be used by the States in developing Coastal Nonpoint Pollution Control Programs aimed at restoring and protecting coastal waters. (836 pgs.)

**Guide to Nonpoint Source Pollution Control**  
EPA841-B-91-107  
7/87

Assists in choosing among techniques for approaching NPS pollution control. Contains a general evaluation of NPS modeling and assessment techniques, an assessment of commonly-used models, and a summary of best management practices (BMPs). (121 pgs.)

**Methodology for Analysis of Detention Basins for Control of Urban Runoff Quality**  
EPA841-B-86-108  
9/86

Describes a probabilistic methodology to analyze the performance characteristics of techniques that control pollution discharges from urban stormwater runoff. Provides data and analysis procedures to guide planning decisions. (64 pgs.)

**Nonpoint Source Impacts on Aquatic Life — Literature Review**  
EPA841-S-88-108  
7/88

Provides an overview of 68 research papers and reports exploring the impact of NPS pollution on aquatic life. Discusses regional trends in NPS pollutants. (250 pgs.) Only available from NTIS (NTIS # PB90229931). Call (703) 487-4650.

**Results of the Nationwide Urban Runoff Program** (executive summary only)  
EPA841-S-83-109  
12/83

Consists of two sections: Executive Summary and Volume 1 - Final Report. Summarizes the results of project studies of urban runoff conducted by the National Urban Runoff Program (NURP) from 1978 to 1983. Examines quality characteristics of urban runoff, the extent to which urban runoff contributes to national water quality problems, and the overall effectiveness of management practices to control pollutant loads from urban runoff. (Executive Summary — 24 pgs.)

**Rural Clean Water Program 1988 Workshop Proceedings: National Water Quality Evaluation Project**  
EPA506-9-89-001  
12/88

Contains technical papers and presentations from the Rural Clean Water Program Workshop held September 12-15, 1988, in St. Paul, Minnesota. Identifies NPS project priorities of workshop participants. Only available from Publications, North Carolina State University, Water Quality Group, 615 Oberlin Road, Suite 100, Raleigh, NC 27605-1126. (190 pgs.)

**Setting Priorities: The Key to Nonpoint Source Control**  
EPA841-B-87-110  
7/87

Presents guidelines and suggestions for designing and implementing a targeted NPS pollution control program to achieve improvements in water quality. Prepared for EPA by the Biological and Agricultural Engineering Department at North Carolina State University. (51 pgs.)

**State and Local Funding of Nonpoint Source Control Programs**  
EPA841-R-92-003  
9/92

Describes particularly effective state and local nonpoint source programs and methods used to fund them. (88 pgs. plus appendix)

**U.S. EPA Nonpoint Source Information Exchange Computer Bulletin Board System (BBS) — User's Manual**  
EPA503-8-92-002  
1/92

Describes how to access and use the major capabilities of the BBS, and presents a guided tour of an on-line session. The BBS will provide state and local agencies, private organizations, businesses, and concerned individuals with timely, relevant NPS information, a forum for open discussion, and the ability to exchange computer text and program files. (64 pgs.)

*Urban Targeting and BMP Selection:  
An Information and Guidance Manual  
for State Nonpoint Source Program Staff  
Engineers and Managers*  
EPA841-B-90-111  
11/90

Assists state and local agency personnel in targeting and prioritizing areas within their jurisdiction which require abatement of urban runoff water quality problems. Consolidates existing information, and describes a noncomputerized technology for targeting areas for control. (54 pgs.) Only available from Terrene Institute, 1000 Connecticut Ave., NW, Suite 802, Washington, D.C. 20036, (202) 833-8317.

## Data Management

### Technical

*Guide for Preparation of Quality Assurance  
Project Plans for the  
National Estuary Program*  
EPA556-2-88-001  
6/88

Serves as a quality assurance/quality control checklist for research and data collection under the National Estuary Program. (31 pgs.)

*Ocean Data Evaluation System (ODES)  
Data Submissions Manual*  
EPA503-9-90-006  
1988

Explains the quality assurance/quality control (QA/QC) cycle that must be completed before a data set can be loaded into ODES, and provides detailed instructions for entering individual data sets onto coding forms, magnetic tape, or floppy diskette for submission to ODES. (350 pgs.) Only available from Kevin Perry, (202) 260-6833. Mailing address: U.S. EPA, Oceans and Coastal Protection Division (WH-556F), 401 M St., SW, Washington, D.C. 40460.

*Ocean Data Evaluation System (ODES):  
User Guide*  
EPA503-8-90-007  
1987

Provides directions for accessing information stored in ODES and for using ODES tools to produce analytical reports. ODES includes an integrated database which combines source input information with marine and estuarine environmental information, including water quality data, physical/chemical and oceanographic data, biological data, and sediment pollutant data. ODES also features a wide range of analytical tools for scientific and statistical analyses, and for reporting the results in a convenient format. (75 pgs.) Only available from Kevin Perry, (202) 260-6833. Mailing address: U.S. EPA, Oceans and Coastal Protection Division (WH-556F), 401 M St., SW, Washington, D.C. 40460.

# Water Quality Assessment and Monitoring

## General

*National Directory of Citizen Volunteer Environmental Monitoring Programs, Third Edition*  
EPA503-9-90-004  
4/90

Lists volunteer monitoring programs throughout the United States. Includes contact names and a brief description of each program. (43 pgs.)

*National Water Quality Inventory — 1988 Report to Congress*  
EPA440-4-90-003  
4/90

Summarizes state-reported water quality data under Section 305(b) of the Clean Water Act with supplemental EPA data. Describes the quality of rivers, lakes, estuaries, Great Lakes, coastal waters, wetlands, and ground water. Includes information on special concerns such as fishing restrictions and fish kills. Summarizes point and nonpoint source programs and surface water monitoring programs. (228 pgs.)

*National Water Quality Inventory — 1990 Report to Congress*  
EPA503-9-92-006  
3/92

Summarizes state-reported water quality data under Section 305(b) of the Clean Water Act with supplemental EPA data. Describes the quality of rivers, lakes, estuaries, Great Lakes, coastal waters, wetlands, and ground water. Includes information on special concerns such as fishing restrictions and fish kills. Summarizes point and nonpoint source programs and surface water monitoring programs. (208 pgs.)

*Proceedings of the Third National Citizens' Volunteer Water Monitoring Conference*  
EPA841-R-92-004  
9/92

Includes detailed summaries of over 25 workshops, panel discussions, and technical sessions. Topics include collecting quality volunteer monitoring data; sharing volunteer data with state and local governments; volunteer nonpoint source monitoring; environmental education and community outreach; and watershed walking. (183 pgs.)

*The Quality of Our Nation's Water: 1990*  
EPA841-K-92-001  
6/92

Summarizes the results of the 1990 *National Water Quality Inventory* in an easy to understand format for the general reader. Introduces key water quality concepts. Discusses pollution of rivers, lakes, estuaries, coastal waters, wetlands, and ground water. Discusses how individual citizens can make a difference in solving the Nation's pollution problems. (27 pgs.)



***Total Maximum Daily Load (TMDL) Case Studies***  
92/93

Each case study discusses the problem, TMDL development, pollution control implementation, and follow-up monitoring. The case studies include:

Denver Metro/South Platte River (EPA841-F-93-001)

South Fork of the Salmon River (EPA841-F-93-002)

West Fork of Clear Creek (EPA841-F-93-003)

Nomini Creek Watershed (EPA841-F-93-004)

Albemarle/Pamlico Estuary (EPA841-F-93-005)

The Lower Minnesota River (EPA841-F-92-011)

Sycamore Creek, Michigan (EPA841-F-92-012)

Boulder Creek, Colorado (EPA841-F-93-006)

Available only from the Assessment and Watershed Protection Division, (202) 260-7074. Mailing address: U.S. EPA, Assessment and Watershed Protection Division (WH-553), 401 M St., SW, Washington, D.C. 20460 and on the Nonpoint Source Bulletin Board System.

***Volunteer Lake Monitoring:  
A Methods Manual***  
EPA440-4-91-002  
12/91

Provides step-by-step methods for monitoring key lake water quality problems using citizen volunteers. Includes information on quality assurance/quality control (QA/QC) of data, data analysis and preservation, and equipment. (121 pgs.)

***Volunteer Water Monitoring:  
A Guide for State Managers***  
EPA440-4-90-010  
8/90

Describes existing volunteer monitoring programs. Focuses on the types of monitoring performed and the accuracy of results. Provides state environmental managers with recommendations for developing, implementing, and maintaining successful volunteer monitoring programs. (78 pgs.)

## Technical

All documents marked with a \* in this section are only available from Virginia Fox-Norse, (202) 260-9129. Mailing address: U.S. EPA, Oceans and Coastal Protection Division (WH-556F), 401 M St., SW, Washington, D.C. 40460.

**\*301(h) Permit Reissuance Guidance  
Document for Small Dischargers**  
EPA503-9-90-008  
1988

Identifies the regulatory requirements applicable to reissuance of 301(h) modified permits held by small dischargers, i.e., publicly-owned treatment works that have contributing populations under 50,000 and average dry weather flows of less than 5.0 million gallons per day. Discusses assessments and data analyses that are needed for small dischargers to satisfy applicable regulatory requirements and methods by which regulatory personnel may evaluate compliance with regulatory requirements. (88 pgs.)

**\*Analytical Methods for U.S. EPA Priority  
Pollutants and 301(h) Pesticides  
in Estuarine and Marine Sediments**  
EPA503-6-90-004  
5/86

Describes analytical methods which allow for sensitive analyses of the target compounds with a reasonable amount of laboratory effort. Discusses the analysis of extractable organic compounds, volatile organic compounds, metals, and metaloids.

**Assessing Human Health Risks from  
Chemically Contaminated Fish: A  
Guidance Manual**  
EPA503-8-89-002  
9/89

Provides guidance for health risk assessment related to chemically contaminated fisheries, based on EPA approaches. (140 pgs.)

**\*Bioaccumulation Monitoring Guidance:  
1) Estimating the Potential for  
Bioaccumulation of Priority Pollutants and  
301(h) Pesticides Discharges into  
Marine and Estuarine Waters**  
EPA503-3-90-001  
9/85

Provides an overview of important environmental, biological, and chemical processes that affect bioaccumulation of chemical contaminants in marine and estuarine animals. Reviews predictive and empirical approaches used to determine the bioaccumulation potential of toxic chemicals. Describes a method for ranking EPA priority pollutants and 301(h) pesticides in terms of bioaccumulation potential. Provides guidance for selection of pollutants to analyze in 301(h) monitoring programs. (69 pgs.)

**\*Bioaccumulation Monitoring Guidance:  
2) Volume I. Selection of Target Species and  
Review of Available Bioaccumulation  
Data**  
EPA430-9-86-005  
1985

Provides guidance for selecting target species for bioaccumulation monitoring studies to be conducted as part of the 301(h) sewage discharge program. Presents a compilation, evaluation, and summary of recent data on concentrations of priority pollutants in those species. (53 pgs.)

**\*Bioaccumulation Monitoring Guidance:  
2) Volume II. Selection of Target Species  
and Review of Available Bioaccumulation  
Data**  
EPA430-9-86-006  
1985

Contains appendices which provide details of the compilation, evaluation, and summary of recent data on concentrations of priority pollutants in selected target species monitored for bioaccumulation. (350 pgs.)

**\*Bioaccumulation Monitoring Guidance:**

**3) Recommended Analytical**

**Detection Limits**

EPA503-6-90-001

1985

Reviews the factors that influence target pollutant detection units, and recommends minimum detection limits for bioaccumulation studies. Serves as a companion document to the recommended analytical protocols in the Bioaccumulation Monitoring Guidance series, although it is not designed to address specific analytical protocols. (23 pgs.)

**\*Bioaccumulation Monitoring Guidance:**

**4) Analytical Methods for U.S. EPA**

**Priority Pollutants and 301(h) Pesticides in Tissues From Estuarine & Marine Organisms**

EPA503-6-90-002

5/86

Describes analytical methods which allow for sensitive analyses of the target compounds with a reasonable amount of laboratory effort. Discusses the analysis of extractable organic compounds, volatile organic compounds, metals, and metaloids. (105 pgs.)

**\*Bioaccumulation Monitoring Guidance:**

**5) Strategies for Sample Replication and Compositing**

EPA430-9-87-003

6/87

Evaluates the applicability of alternative sampling strategies for bioaccumulation monitoring programs. Presents a statistical approach for determining the levels of difference in bioaccumulation that can be reliably detected with varying levels of sampling effort. Also presents example analyses from historical data to demonstrate the effects of alternative sampling designs. Uses the results of additional analyses employing simulation methods to provide a comparison of grab- and composite-sampling strategies. (51 pgs.)

**\*Design of 301(h) Monitoring Programs for Municipal Wastewater Discharges to Marine Waters**

EPA430-9-82-010

11/82

Provides guidance for designing monitoring programs that meet regulatory requirements in 40 CFR 125.62 and allow continuing assessment of the impact of less-than-secondary discharges on the receiving water marine environment. (135 pgs.)

**\*Ecological Impacts of Sewage Discharges on Coral Reef Communities**

EPA430-9-83-010

9/83

Synthesizes current information on the ecological impact of sewage discharges on coral reefs. Addresses three major components of sewage pollution: eutrophication associated with high nutrient concentrations in discharged wastewaters, sedimentation of suspended solids, and toxic effects. (86 pgs.)

**EPA Water Quality Progress Reports/Water Quality Program Highlights**

EPA841-F-92-001

8/92

Documents EPA progress in improving water quality, and highlights monitoring and wasteload allocation activities. (Series of fact sheets)

**\*Evaluation of Differential Loran-C for Positioning in Nearshore Marine and Estuarine Waters (Draft)**

EPA842-S-88-100

1988

Examines the accuracy attainable using differential Loran-C for positioning ships based on data from historical studies and a field investigation off Southern California. Presents a methodology for determining the differential Loran-C error ellipse size at a number of United States coastal locations, allowing the permittee and regulatory agency staff to determine whether differential Loran-C accuracies are adequate at a particular discharge location.

***\*Evaluation of Survey Positioning  
Methods for Nearshore Marine  
and Estuarine Waters***  
EPA430-9-86-003  
3/87

***\*Framework for 301(h) Monitoring  
Programs***  
EPA430-9-88-002  
9/87

***\*Guidance for Conducting Fish Liver  
Histopathology Studies During  
301(h) Monitoring***  
EPA430-9-87-004  
5/87

***Guidelines for the Preparation of the 1994  
State Water Quality Assessments  
(305(b) Reports)***  
EPA841-B-93-004  
5/93

***Linking Estuarine Water Quality and  
Impacts on Living Resources: Shrinking  
Striped Bass Habitat in Chesapeake Bay  
and Albemarle Sound***  
EPA503-3-88-001  
9/88

***\*Quality Assurance/Quality Control  
(QA/QC) for 301(h) Monitoring Programs:  
Guidance on Field and Laboratory Methods***  
EPA430-9-86-004  
3/87

Identifies navigational systems for use in particular situations, based on operating characteristics and cost. Provides descriptions and assessments of available location-finding techniques and equipment and provides assistance for minimizing measurement error. (125 pgs.)

Provides guidance for publicly-owned treatment works on conducting monitoring programs to ensure compliance with 301(h) modified National Pollutant Discharge Elimination System (NPDES) permits. Describes how to design, implement, evaluate, and modify a 301(h) monitoring program. (44 pgs.)

Provides guidance for designing and conducting quantitative field surveys of fish liver histopathology as part of 301(h) monitoring programs to assess potential impacts of permitted sewage discharges on marine biota. Discusses study design, field sampling, laboratory analysis, and data interpretation and analysis. Directed at non-pathologists, such as monitoring program reviewers, permit writers, permittees, and other organizations involved in nearshore monitoring studies. (166 pgs.)

Reflects continuing efforts by EPA and the States to refine the water quality assessment process under Section 305(b) of the Clean Water Act. Refinements include detailed guidance on making use support determinations for aquatic life and clarification of other reporting requirements. (62 pgs.) Available only through EPA's Assessment and Watershed Protection Division, (202) 260-7046. Mailing address: U.S. EPA, WH-553, 401 M St., SW, Washington, D.C. 20460.

Seeks to develop strategies and priorities for stopping habitat degradation and restoring lost habitats in estuaries through identification of critical zones for maintaining living resources. Presents a summary of initial results of a study to link water quality and critical zones for striped bass in Chesapeake Bay and Albemarle Sound, North Carolina. Analyses and conclusions are tentative and are subject to revision. (39 pgs.)

Provides the framework for making informed decisions with respect to the field and laboratory methods used when monitoring the effects of sewage discharge on marine and estuarine ecosystems. Ensures that samples are collected, processed, stored, shipped, and analyzed using acceptable and standardized procedures, that the quality of generated data is documented adequately, that results are reported completely and correctly, and that security of samples and data is maintained at all times. (281 pgs.)

*Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish*  
EPA440-4-89-001  
5/89

*\*Recommended Biological Indices for 301(h) Monitoring Programs*  
EPA430-9-86-002  
3/87

*\*Report on the Implementation of Section 301(h)*  
EPA430-9-84-007  
8/84

*\*Revised Section 301(h) Technical Support Document*  
EPA430-9-82-011  
11/82

*\*Summary of U.S. EPA — Approved Methods, Standard Methods, and Other Guidance for 301(h) Monitoring Variables*  
EPA5034-90-002  
9/85

*Watershed Monitoring and Reporting for Section 319 National Monitoring Program Projects*  
EPA841-B-91-113  
8/91

Serves as a reference to help states conduct biological assessments of biotic systems. Presents three macroinvertebrate and two fish protocols. (162 pgs.) Only available from ORD Publications Office (CERI), (513) 569-7562. Mailing address: U.S. EPA, CERI, 26 West Martin Luther King Dr., Cincinnati, OH 45268-1072.

Recommends indices that should be used in the interpretation of 301(h) biological monitoring data. Indices recommended were judged on biological meaning, ease of interpretation, and sensitivity to community changes caused by pollutant impacts. (17 pgs.)

Summarizes EPA program activities and accomplishments in implementing Section 301(h) of the Clean Water Act from 1978 to mid-1984. Discusses the technical findings resulting from a review of the 1979 301(h) applications from the 25 largest dischargers. Also presents recommendations for future 301(h) efforts. (79 pgs.)

Provides technical support for the major changes made in the Section 301(h) regulations since 1979. Offers technical explanations of the assessments required to obtain a 301(h) modified discharge permit and guidance for completion of the application questionnaires for small and large dischargers. All information is advisory only. (241 pgs.)

Provides a discussion of available methods to collect thirty-two biological, sediment, and water quality variables included in 301(h) monitoring programs to evaluate the impact of modified discharges on marine biota, to demonstrate compliance with applicable water quality standards, and to measure toxic substances in the discharge. (17 pgs.)

Outlines state monitoring and reporting requirements for watershed projects funded under Section 319 of the Clean Water Act. Reviews selection criteria for National Monitoring Program Projects. Describes four information files used in reporting: Section 305(b) Waterbody System, Management File, Monitoring Plan File, and Annual Report File. Also includes the data input and reporting software package, Nonpoint Source Management System, Version 3.0, and hard copy report forms. (90 pgs.)

# Bulletins

Five Bulletins are available through OWOW. If you would like to subscribe to any of these bulletins, please complete the order form on page 28 and send it to the address indicated.

*Coastlines*  
Bimonthly

Disseminates information about estuaries and near coastal water. Produced by the Alliance for the Chesapeake Bay.

*News-Notes*  
Occasional

Explores issues dealing with the condition of the environment and control of nonpoint sources of water pollution. Includes contacts for more information on the subjects covered, a calendar of meetings and events, and calls for papers. Written for state and local water quality managers, other interested public officials, environmental groups, private industry, citizens, and academics.

*Volunteer Monitor*  
Biannually

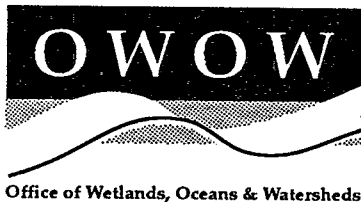
Includes articles for and by volunteer water monitors on volunteer methods, organizational and planning issues, resources for volunteers, current activities, and progress. Supported by EPA and co-edited by volunteer monitoring groups.

*The Water Monitor*  
Monthly

Highlights monitoring activities in the states and Regions, summarizes and announces meetings and publications, and provides updates on innovative research and program developments. Allows surface water monitoring staff in the states, EPA Regions, and EPA Headquarters to exchange information on their programs and activities.

*Watershed Events*  
Quarterly

Updates EPA offices and other interested parties on progress in the development and use of watershed protection approaches for improving the environmental quality of aquatic ecosystems.



## Office of Wetlands, Oceans, and Watersheds

### Publications Order Form

*Please Print All Information Clearly*

Publication Number	Title	For Office Use Only

*Due to limited supply, we can send you only one copy of each publication.*

*Please print clearly. Allow 2-3 weeks for delivery.*

Ship to: \_\_\_\_\_

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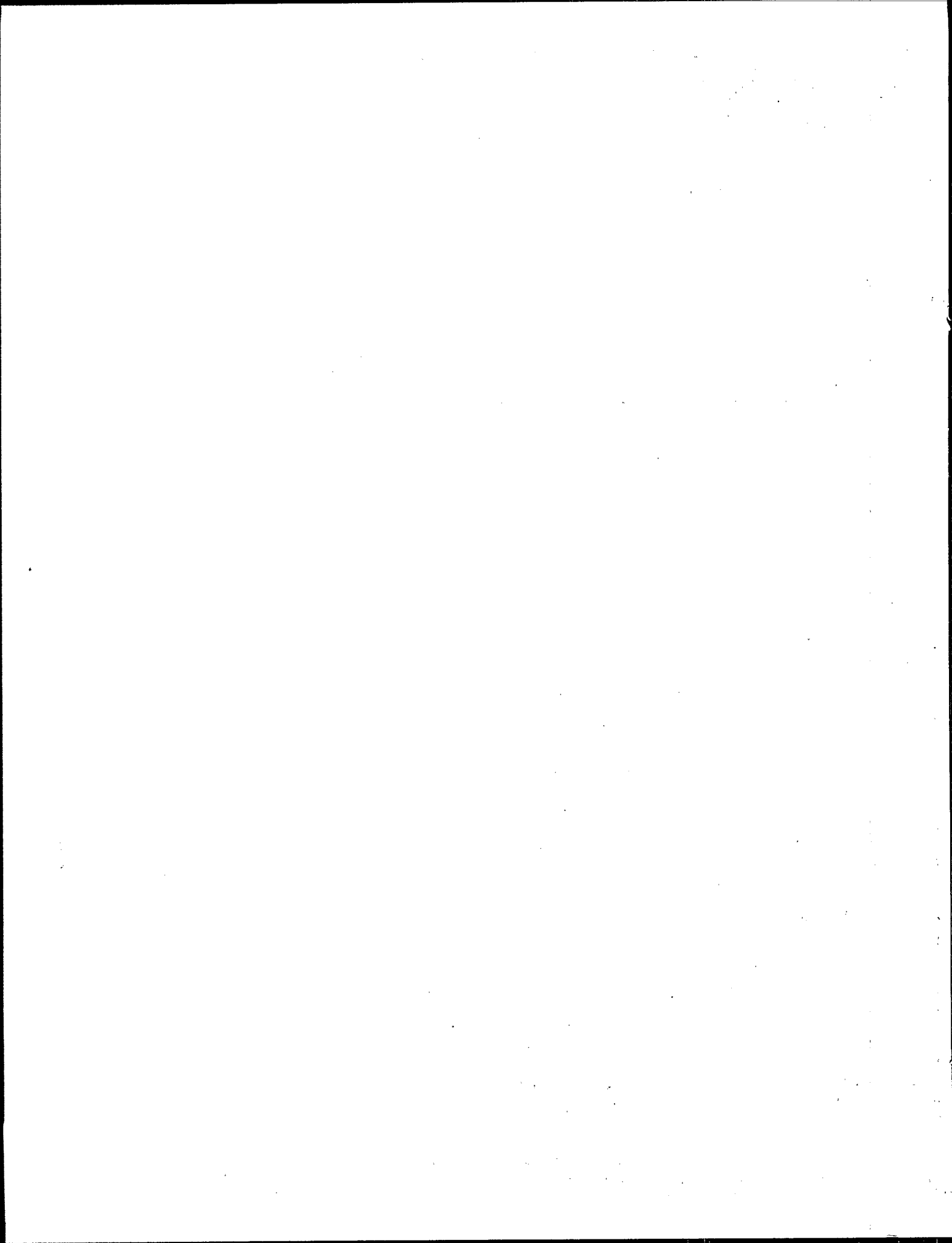
City, State, Zip: \_\_\_\_\_

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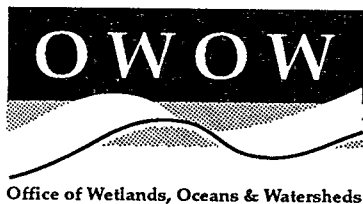
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11029 Kenwood Road, Building 5  
Cincinnati, OH 45242







## Office of Wetlands, Oceans and Watersheds

### Bulletin Order Form

*Please place a checkmark next to the bulletins you wish to receive:*

- Coastlines
- News-Notes
- Volunteer Monitor
- The Water Monitor
- Watershed Events

*Please print clearly. Arrival of the first issues of a bulletin depends on the frequency of production of the bulletin.*

Ship to: \_\_\_\_\_

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Address: \_\_\_\_\_

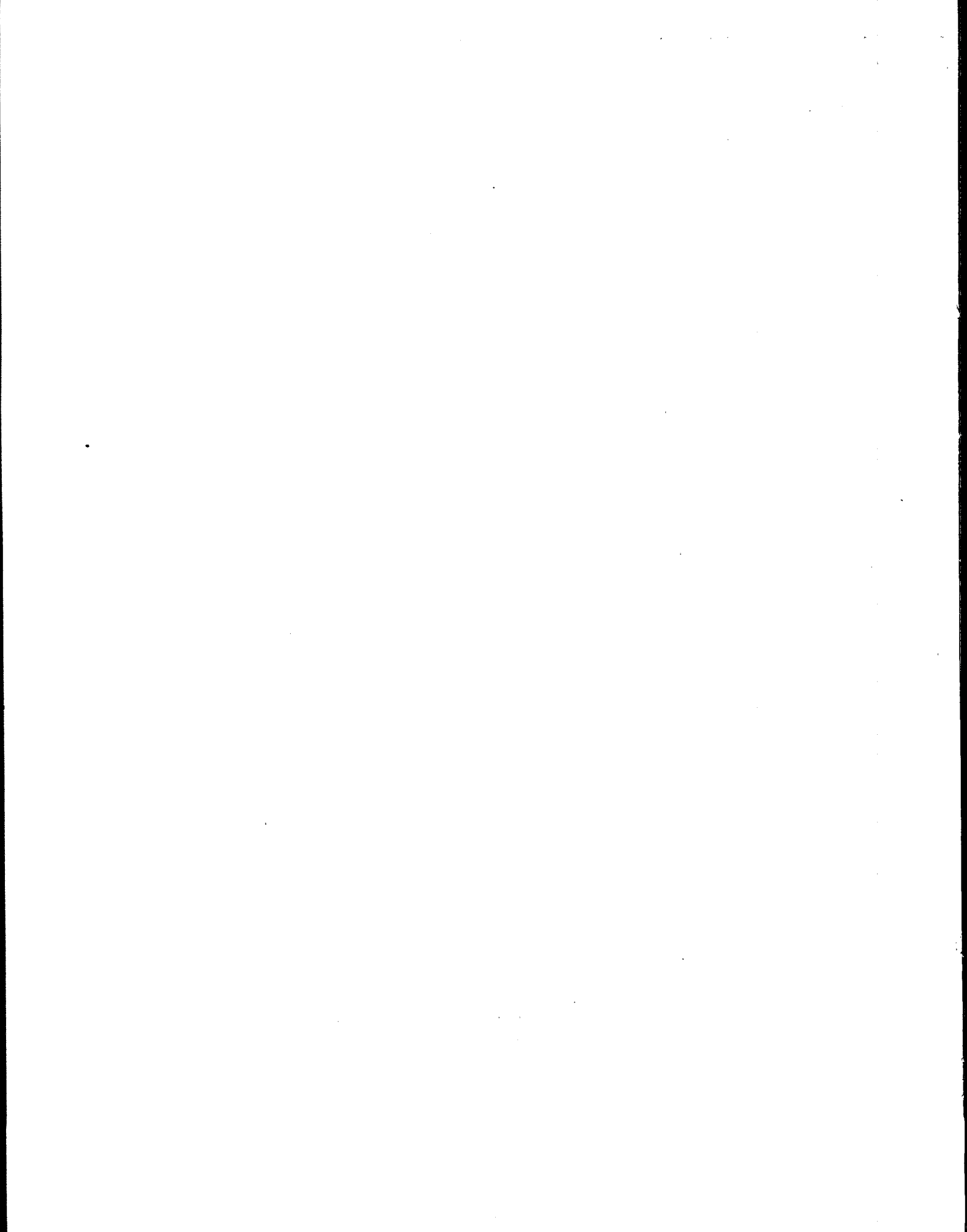
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Office of Wetlands, Oceans, and Watersheds  
Policy and Communication Staff  
United States Environmental Protection Agency  
401 M Street, SW (WH-556F)  
Washington, D.C. 20460



# Do You Have Questions About Wetlands Protection?

Call the EPA Wetlands Protection Hotline\*

**1-800-832-7828**

*The confidential hotline provides referrals  
and information on:*

- Federal wetland regulatory programs
  - Section 404 of the Clean Water Act
- Status of Federal governmental actions
  - Regulations
  - Congressional legislation on wetlands
  - *Federal Manual for Identifying and Delineating Jurisdictional Wetlands*
- Private and public wetlands protection programs
- Procedures for and contacts to obtain
  - National Wetlands Inventory Maps
  - Hydric soils list
  - List of plants that occur in wetlands



*Hotline services are available to callers within the United States, Puerto Rico and the U.S. Virgin Islands.  
Hotline Hours of Operation: Monday - Friday, 8:00 am to 5:30 pm (EST)*

