EPA-600/9-74-001
JULY 1974

Indexed Bibliography of Office of Research and Development Reports

Office of Research and Development
U.S. Environmental Protection Agency
Washington, D.C. 20460

ORD ORGANIZATION

The Office of Research and Development consists of six major research organizations as listed below. Each is responsible **only** for those reports identified by the accompanying three digit code.

TO OBTAIN COPIES: Copies of individual reports may be obtained **only** from those sources contained in the **Bibliographic Section** under the heading **ORDER FROM.**

TO OBTAIN INFORMATION: Additional information regarding report content, pending publication dates, etc. may be obtained from the following sources according to the corresponding indentifier code shown below.

CODE	ORGANIZATION
600	ORD Headquarters (HQ) and Washington Environmental Research Center (WERC) EPA (RD-674) Washington, D.C. 20460 Phone: 202 426–2175 (HQ) 703 557–7484 (WERC)
650	National Environmental Research Center (NERC-RTP) EPA Research Triangle Park, NC 27711 Phone: 919 549–8411
660	National Environmental Research Center (NERC-Corvallis) EPA 200 S.W. 35th St. Corvallis, OR 97330 Phone: 503 752–4211, Ext. 440
670	National Environmental Research Center (NERC-Cincinnati) EPA 4676 Columbia Parkway Cincinnati, OH 45268 Phone: 513 684–2200, Ext. 258
680	National Environmental Research Center (NERC-Las Vegas) EPA P. O. Box 15027 Las Vegas, NV 89114 Phone: 702 736–2969

EPA-600/9-74-001
July 1974

INDEXED BIBLIOGRAPHY
of
OFFICE OF RESEARCH AND DEVELOPMENT REPORTS

by
PUBLICATIONS STAFF
Office of Program Management

Office of Research and Development
U.S. Environmental Protection Agency
401 M Street S. W. (RD-674)
Washington, DC 20460

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INTRODUCTORY SECTION

BACKGROUND

In December of 1971, the Federal Water Quality Administration (FWQA) became the U. S. Environmental Protection Agency (EPA). At this same time, several other federal pollution control activities became a part of EPA. On July 1, 1973, the Office of Research and Monitoring was redesignated Office of Research and Development (ORD).

This Bibliography identifies all reports issued by these offices for the periods indicated below:

FWQA Water Pollution Control Research Series — to July 1972

Office of Research & Monitoring (ORM), EPA — to July 1973

Office of Research & Development (ORD), EPA — to July 1974

Beginning July 1972, the Office of Research & Monitoring, now Office of Research & Development (ORD), research reports were grouped into series. These series were established to facilitate further development and application of environmental technology and previous groupings were eliminated to improve technology transfer and provide for maximum interface with related fields. Following establishment of these ORD-wide series all existing series designations, such as the Water Pollution Control Research Series, were discontinued.

In conjunction with the new ORD series designations, a report numbering system for all ORD research reports was also established. This numbering system is keyed to the report series assigned to the report and the following is a description of the system, including identifying report cover colors, which are also series related. This series identification pertains to all reports issued after July 1972.

Beginning July 1973, an Agency-wide numbering system (EPA-6nn/n-73-xxx) superseded the former ORD numbering system (EPA-Rn-73-xxx). This Agency-wide system is a direct extension of the former ORD system. All ORD reports are still classified into one of the series as described on the following page. A detailed explanation of this new system appears under **Report Numbering Systems**.

INTRODUCTORY SECTION

SERIES DESCRIPTIONS

SERIES 1 - ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

This series describes projects and studies relating to the tolerances of man for unhealthful substances or conditions. This work is generally assessed from a medical viewpoint, including physiological or psychological studies. In addition to toxicology and other medical specialities, study area include biomedical instrumentation and health research techniques utilizing animals - but always with intended application to human health measures.

SERIES 2 - ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

This series describes research performed to develop and demonstrate instrumentation, equipment and methodology to repair or prevent environmental degradation from point and non-point sources of pollution. This work provides the new or improved technology required for the control and treatment of pollution sources to meet environmental quality standards.

SERIES 3 - ECOLOGICAL RESEARCH (light green covers)

This series describes research on the effects of pollution on humans, plant and animal species, and materials. Problems are assessed for their long- and short-term influences. Investigations include formation, transport, and pathway studies to determine the fate of pollutants and their effects. This work provides the technical basis for setting standards to minimize undesirable changes in living organisms in the aquatic, terrestrial and atmospheric environments.

SERIES 4 - ENVIRONMENTAL MONITORING (gray covers)

This series describes research conducted to develop new or improved methods and instrumentation for the identification and quantification of environmental pollutants at the lowest conceivabley significant concentrations. It also includes studies to determine the ambient concentrations of pollutants in the environment and/or the variance of pollutants as a function of time or meteorological factors.

SERIES 5 - SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

This series describes research on the socioeconomic impact of environmental problems. This covers recycling and other recovery operations with emphasis on monetary incentives. this mon-scientific realms of legal systems, cultural values, and business systems are also involved. Because of their interdisciplinary scope, system evaluations and environmental management reports are included in this series.

SERIES 9 - MISCELLANEOUS (white covers)

This series is used for all reports issued by ORD not applicable to one of the series described above.

INTRODUCTORY SECTION

REPORT NUMBERING SYSTEMS

This Bibliography contains three sets of report numbers. Each set is described below with the dates it was used.

July 1973 to Present (600 Reports)

Sample Number: EPA-670/3–74–002c

EPA Identifies all Environmental Protection Agency Reports

670 Identifies one of the following major ORD organizations responsible for preparing report. See inside front cover for mailing addresses.

600	ORD Headquarters and WERC
650	NERC-RTP
660	NERC-Corvallis
670	NERC-Cincinnati
680	NERC-Las Vegas
SAB	Science Advisory Board

/3 Indicates assigned report series. (Refer to previous series descriptions.)

74 Indicates last two digits of year of publication.

002 Indicates the serial number which is: (a) sequentially assigned, and (b) unique within a series.

c Indicates an expanded serial number as required to designate one part of a set of reports. (In this case the third report of a set.)

July 1972 to July 1973 (R Reports)

Sample Number: EPA-R2–72–007a

EPA Identifies all Environmental Protection Agency Reports

R2 Letter **R** is identifier for all **ORM/ORD** research reports. The number indicates assigned report series. (Refer to previous series descriptions.)

72 Indicates last tow digits of year of publication.

007 Indicates the serial number which is: (a) sequentially assigned, and (b) unique within a series.

a Indicates an expanded serial number as required to designate one part of a set of reports. (In this case the first report of a set.)

INTRODUCTORY SECTION

Prior to July 1972 (Water Pollution Control Research Series, FWQA)

Sample Number: 11010 EGO 01/71

11010 Identifies the program area and element. The first two digits (11) identify the Major **Program Area**, the final three digits (010) identify the **Program Element** within this Program Area. Each Program Area may include any number of program element numbers. (refer to **Users Guide to Bibliography**)

Within the **Bibliographic Section** the designation (1101) will appear below the heading "P.E. No.".

EGO Unique designator for report.

01/71 Month and last two digits of year report was completed.

INTRODUCTORY SECTION

USER'S GUIDE TO BIBLIOGRAPHY

The complete BIBLIOGRAPHY contains a bibliographic section and five indexes. Within each index reports are referenced to the BIBLIOGRAPHIC SECTION by report number.

Bibliographic Section

This is a complete listing of all reports contained in this Bibliography. Three sets of report numbers appear as separate listings in the following order:

R Reports (Example: R1-73-002)
Water Pollution Control Research Series (Example: 11010EGO01/71)
600 Reports (Example: 670/2-74-001)

This section contains complete information for each report. Refer to the page HOW TO ORDER for instructions on obtaining copies.

Title Index

All reports are listed alphabetically by title, excluding A, An, The as beginning words of titles.

Program Area Index

The entire research program of ORD is divided into ten major program areas which are described in detail on the following pages. Within each major program area, sub-areas are called program elements (i.e., 1BB037, 1101). Each research project, depending on the subject matter of the research, is assigned a program element number (P.E. No.). The P.E. No. (which appears in the second column of the Bibliographic Section) is unique to a program area. Hence, a program area may contain any number of program elements but any assigned program element number will only fall within one program area.

This index lists within each program area, in alphabetical order, those reports dealing with research in that area. Each title appears only one.

Since some reports do not fit within these ten program areas, a Miscellaneous Reports category has been included. Reports such as bibliographies, annual reports, etc. are listed in this Miscellaneous Category.

Performing Organization Index

This is an alphabetical listing of the organization which actually did the research. In the case of a grant or contract the organization is the grantee or contractor. In the case of an in-house report the organization is the EPA laboratory or office.

INTRODUCTORY SECTION

Personal Author Index

This is a complete alphabetical listing of all authors of reports contained in the Bibliographic Section.

Index of R Report Numbers

As an aid to librarians, this index is a sequential listing of all active numbers in the R Report set.

INTRODUCTORY SECTION

PROGRAM AREA DESCRIPTIONS

HEALTH EFFECTS PROGRAM AREA

Health effects research is directed toward assessment of health hazards associated with environmental pollution from a number of media and categories including air, water, pesticides, radiation and noise. Various disciplines are brought together for this purpose. Major program emphasis is devoted to the Community Health and Environmental Surveillance Studies (CHESS) Program. CHESS consists of a series of epidemiologic studies in various communities throughout the United States whose objectives are to evaluate the effects of exposure to common pollutants upon sensitive health indicators.

Complementing CHESS is the Biomedical Research Program which is directed at assessing, at the community level, the effects of pollutants upon human physiology. Evaluations of health effects resulting from community level environmental pollution and classical and innovative toxicologic research studies are conducted. Scientific information on the health effects associated with exposures to fuels, fuel additives and their combustion products is collected. Pesticides, radiation and specific toxic substances are evaluated in studies conducted within this program area.

The cumulative output from all of these programs will provide needed health intelligence required to formulate environmental policies protective of public health.

ECOLOGICAL PROCESSES AND EFFECTS PROGRAM AREA

The ecological processes and effects research area is responsible for determining the effects of air and water pollutants on the structure and function of ecosystems and on biotic and abiotic subcomponents of these ecosystems. One major objective of the program is to develop scientific information necessary for water quality criteria and secondary air quality criteria.

Programs on aquatic systems are conducted to determine the effects of pollutants such as temperature, pesticides and heavy metals on fresh and marine water fish, invertebrates and their food chain organisms. Acute and chronic effects of pollutants on life stages of the organisms are determined.

Investigations of the effects of major air pollutants on crops and vegetation are conducted to provide information for establishing secondary ambient air quality standards. Specific studies of the effects of NO_x, SO_x, hydrocarbons, and oxidants are conducted on representative terrestrial ecosystems.

Also included are studies of alternative methods of pest control. These efforts are aimed at the reduction of dependence upon persistent chemical pesticides. Non-chemical methods of pest control with great specificity on target organisms and little or no effects on non-target organisms are sought.

A second major objective of this program area is to determine a chemical, physical and biological process associated with sources, pathways, persistences, and fates of pollutants in ecosystems. The results of these studies along with results from effects and other research areas provide the scientific and technical basis for control and abatement actions.

MUNICIPAL POLLUTION CONTROL PROGRAM AREA

The Municipal Pollution Control Program Area covers the research, development and demonstration of new or improved technology applicable to the control and treatment of wastewaters generated in and discharged from the urban environment. Pertinent technical areas include unit processes and systems applicable to treatment of municipal sewage to effect the removal of organic materials and other pollutants; control and treatment of wastewaters discharged from sewer systems carrying both

storm water and sewage (combined sewers) and urban storm water discharges. The entire urban drainage system is, therefore, included in the Municipal Water Control Technology Program.

Beyond the basic development and demonstration of processes and systems, efforts are also directed to process control and instrumentation, computerized systems for process simulation and evaluation and non-pollutional disposal and/or utilization of sludges and concentrated pollutants resulting from treatment.

Several specialized areas of emphasis are included in the Municipal Water Control Technology Area. The treatment of municipal wastewaters in cold climates (sub-arctic and arctic areas) is one of these. A unique portion of this cold climate research and development is directed to the provision of effective water supply, wastewater treatment and general sanitation facilities for native Alaskan villages.

The treatment and utilization of both liquid and solid fractions of wastewater by application to the soil is a separately identified technical area, as is the improvement of existing and development of new treatment and disposal methods applicable for individual home use.

INDUSTRIAL POLLUTION CONTROL PROGRAM AREA

The objectives within the Industrial Pollution Control Program Area are to develop and implement full-scale demonstrations and field evaluations of new or improved waste treatment or economical control processes and measures resulting from new knowledge developed through EPA and/or external research efforts on industrial manufacturing pollution abatement methods.

Program efforts will be directed toward demonstrating the best practicable, best available and zero pollution control technology with emphasis on water reuse and product-by-product recovery. The industries of concern are the manufacturing industries as defined by the SIC (Standard Industrial Classification) Major Group 19—39.

NON-POINT POLLUTION CONTROL PROGRAM AREA

The Nonpoint Pollution Control Program Area has as its general objective the development of information, decision-making tools and technology required to: (1) predict and assess the impact of pollutants from non-point sources on waters from various land use patterns; (2) determine the reduction in pollutant load which would result from implementation of specific non-point source controls and the costs of achieving these reductions to meet established water quality standards; (3) establish limits of reasonable controllability for non-point sources including an assessment of discharges resulting from mans activities and those which would occur in the absence of man's activities, and (4) establish specific control guidelines for non-point sources to serve as the basis for application of enforceable controls to local conditions.

Specific objectives are to develop cost effective non-point management systems, including alternatives appropriate for implementation in various geographical and geological areas with different climate and rainfall runoff patterns in the following areas:

(1) Agricultural activities including forestry and logging operations; agricultural runoff; irrigation return flows; confined animal feeding; aquaculture and disposal of nonagricultural sludges; to crop land. The development and demonstration mode will emphasize concepts which either maximize the potential for recycle or reuse (animal wastes, irrigation systems) or

INTRODUCTORY SECTION

PROGRAM AREA DESCRIPTIONS

minimize adverse impact for "once through" systems (e.g., pesticide runoff). New and improved management concepts, fertilizer and pesticide formulations and application methods, and structural and equipment changes will be evaluated.

(2) Control of water pollution from active mining operations including the extraction process and those cleaning, milling, beneficiation processes necessary to produce a marketable product and abandoned mining sites. The objective is to allow mining to be carried on in the future without causing environmental degradation.

(3) Control of water pollution from hydrological modifications such as construction, dredging, landfill and water resources development. These activities have the common environmental impact of causing substantial changes in the local or area hydrologic patterns.

(4) Oil and hazardous material spills prevention, control and clean-up. The objective is to develop an array of countermeasures to contain spills, to prevent them from entering watercourses, and to control and remove those that reach waters and minimize damage to resources and to the water ecosystem. The variability of hazardous materials necessitates development of a wide range of countermeasures.

AIR POLLUTION CONTROL PROGRAM AREA

The primary objective of this program area is to assure the availability of control devices, processes, and approaches for control of air pollutants at their source. Programs range in scope from basic research and development activities through the design, construction, and operation of full-scale demonstration systems. Research, development, and demonstration programs are implemented principally through contracts with industrial firms and other governmental agencies. Approximately 10% of the research is conducted in in-house facilities. Portions of the more long-range and fundamental research and development activities are conducted through research grants with non-profit organizations, principally colleges and universities.

The air pollution control technology activities are currently grouped into four principal areas: (1) sulfur oxides, (2) nitrogen oxides, (3) particulates, and (4) hazardous and other pollutants. A major portion of the program is devoted to research and development of technology for the control of sulfur oxide emissions. Historically, this research has focused on control of sulfur oxide emissions from electric power generating plants. More recently, increased attention is being given to the control of industrial combustion and industrial process sources.

Activity on nitrogen oxide control research is expanding rapidly to support control technology needs and regulatory requirements. The primary thrust of the ongoing nitrogen oxide research and development is in the area of combustion control. Increasing attention is being given to nitrogen oxide effluent treatment processes.

Particulate control research and development must cope with the needs for fine particulate control technology and improved and more economic conventional technologies. Reliable methods for measuring fine particulate as well as the development of high efficiency methods and equipment for controlling fine particulates in the 0.05 to 3.0 micron size range are being emphasized.

The hazardous and other pollutant control category embraces control technology for all air pollutants not classified within one of the above three categories. This includes the development of technology for control of hydrocarbons from stationary source, halides, and similar pollutants. Special emphasis is being placed on the control of hazardous and potentially hazardous pollutants including mercury, beryllium, asbestos, cadmium, vanadium, chromium, lead, etc.

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PROGRAM AREA DESCRIPTIONS

DATA AND INFORMATION RESEARCH PROGRAM AREA

The Data and Information Research Program Area is responsible for planning, coordinating, establishing, reviewing and assessing research, development and appropriate demonstration programs aimed at the establishment of effective research information and data systems, including multimedia or multi-pollutant data analysis and special data handling and processing studies.

EQUIPMENT AND TECHNIQUES PROGRAM AREA

The principal objective of research conducted or supported within the Equipment and Techniques Program Area is to develop methods and instrumentation for the detection, identification, and quantification of pollutants in all media at the lowest significant concentration. This research is necessary to provide measurements on the causes, extent, effects and control of pollution and to assist in the setting of standards and determining compliance with standards.

Thus, the Equipment and Techniques Area is directed towards the development of instrumentation and methods for the detection and quantitative identification of chemical and biological pollutants in air and water, toxic residues in plant and animal tissues and physical pollutants such as heat, radiation and noise in the environment. State-of-the-art reviews, prototype instrumentation development, and pioneering research studies related to the development of new or significantly improved analytical methods or instrumentation are supported.

QUALITY ASSURANCE PROGRAM AREA

The objectives of the Quality Assurance Program Area are the planning, establishing, and coordinating an Agency-wide standardization and quality control program to assure that environmental data produced by Federal, State, and local agencies are compatible, accurate, and legally defensible and assuring the selection, evaluation, standardization, and publication of procedures and methods for sampling and analyzing environmental pollutants.

SOCIOECONOMIC RESEARCH PROGRAM AREA

The Socio-Economic Research Program Area consists of a program of interdisciplinary research aimed at the development and demonstration of the analytic and management techniques required to implement Agency programs at the national, regional and local levels. Such management and analytic tools are necessary to accomplish and validate Agency policy, strategy, decisions, standards, regulations and plans.

Research is accomplished by teams of professional personnel of various disciplines focused in three general areas:

(1) Ecological Impact Analysis: Analysis of institutional effects of various environmental policies; development of comprehensive environmental planning and management capability.

(2) Resource Analysis: Analysis of economic aspects of environmental actions including cost-benefit, cost-risk benefit and trade-off analysis.

(3) Implementation and Methods Analysis: Development of forecasting capability to enable Agency and other decision-makers to anticipate long-range impact of human and institutional activities on the environment.

INTRODUCTORY SECTION

HOW TO ORDER

DO NOT ORDER COPIES FROM EPA.

GPO When GPO is indicated with a number and a price, paper copy is available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402. The **order number** indicated **must** be used. (Where no number appears, the report number should be used.) For **alternate** GPO sources, see the following list of GPO Bookstores. (see Examples 1, 2, 4 below)

NTIS When NTIS is indicated with a number and a price, paper copy is available from the National Technical Information Service, 5285 Port Royal Road Springfield, VA 22151. The indicated **NTIS** Order Number **must** be used. Whenever NTIS has paper copy it also has microfiche copy. (see Examples 2, 3 below)

NTIS When NTIS is indicated with a number but no price, the report is available from NTIS in microfiche only. All microfiche is $2.25. (See Example 1, 5 below)

EXAMPLES:

(1) **ORDER FROM:** GPO EP 1.23/2:660/2-73-002 $2.20 NTIS PB 233 011

Available from GPO in paper copy at $2.20 and from NTIS in microfiche at $2.25

(2) **ORDER FROM:** GPO EP 1.23/2:600/2073-200 $1.85 NTIS PB 231 032 $4.00

Available in paper copy from both GPO at $1.85 and NTIS at $4.00 and in microfiche at $2.25

(3) **ORDER FROM:** NTIS PB 227 041 $3.75

Available from NTIS in paper copy at $3.75 and microfiche at $2.25

(4) **ORDER FROM:** GPO $1.90

Available from GPO only in paper copy at $1.90. Use report number for GPO number.

(5) **ORDER FROM:** NTIS PB 227 033

Available from NTIS in microfiche only $2.25

SPECIAL NOTATIONS: In some cases the **ORDER FROM** information shows "Pending", "At Printer" or "Under Review". This indicates the report is not yet available. Where a name and phone number appear, contact the individual listed for further information regarding this report.

REMEMBER: DO NOT ORDER COPIES FROM EPA

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GOVERNMENT PRINTING OFFICE BOOKSTORES

The following is a list of U.S. Government Printing Office Bookstores. A typical bookstore stocks approximately 1,500 different publications and provides access to the 20,000 publications available by mail order order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

ATLANTA BOOKSTORE
Room 100, Federal Building
275 Peachtree Street, NE
Atlanta, Georgia 30303
Telephone: 404–526–6947

BIRMINGHAM BOOKSTORE
Room 102A
2121 Building
2121 Eighth Avenue, N
Birmingham, Alabama 35203
Telephone: 205–324–6056

BOSTON BOOKSTORE
Room G25, John F. Kennedy Federal Building
Sudbury Street
Boston, Massachusetts 02203
Telephone: 617–223–6071

CANTON BOOKSTORE
Federal Office Building
201 Cleveland Avenue, SW
Canton, Ohio 44702
Telephone: 216–455–8971

CHICAGO BOOKSTORE
Room 1463 - 14th Floor
Everett McKinley Dirksen Building
219 South Dearborn Street
Chicago, Illinois 60604
Telephone: 312–353–5133

DALLAS BOOKSTORE
Room 1046
Federal Building - U.S. Courthouse
1100 Commerce Street
Dallas, Texas 75202
Telephone: 214–749–1541

DENVER BOOKSTORE
Room 1421
Federal Building - U.S. Courthouse
1961 Stout Street
Denver, Colorado 80202
Telephone: 303–837–3965

DETROIT BOOKSTORE
Room 229, Federal Office Building
231 W. Lafayette Blvd.
Detroit, Michigan 48226
Telephone: 313–226–7816

KANSAS CITY BOOKSTORE
Room 144, Federal Office Building
601 East 12th Street
Kansas City, Missouri 64106
Telephone: 816–374–2140

LOS ANGELES BOOKSTORE
Room 1015, Federal Office Building
300 North Los Angeles Street
Los Angeles, California
Telephone: 213–688–5841

NEW YORK BOOKSTORE
Room 110
26 Federal Plaza
New York, New york 10007

PHILADELPHIA BOOKSTORE
Main Lobby, U.S. Post Office and Courthouse
9th and Chestnut Streets
Philadelphia, Pennsylvania 19107
Telephone: 215–597–0677

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SAN FRANCISCO BOOKSTORE
Room 1023, Federal Office Building
450 Golden Gate Avenue
San Francisco, California 94102
Telephone: 415-556-6657

GOVERNMENT PRINTING OFFICE BOOKSTORE
710 North Capitol street
Washington, D.C. 20402
Telephone: 202-783-3238

DEPARTMENT OF COMMERCE BOOKSTORE
14th and Constitution Avenue, NW
Washington, D.C. 20230
Telephone: 202-967-3527

USIA BOOKSTORE
1776 Pennsylvania Avenue, NW
Washington, D.C. 20547
Telephone: 202-632-9668

DEPARTMENT OF STATE BOOKSTORE
21st and C Streets, NW
Washington, D.C. 20520
Telephone: 202-632-1437
(Public access to building controlled by security regulations.)

PENTAGON BOOKSTORE
Main Concourse, south end
Washington, D.C. 20310
Telephone: 202-541-2998

FORRESTAL BOOKSTORE
Room 1-J-001, James Forrestal Building
1000 Independence Avenue, SW
(L'Enfant Plaza)
Washington, D.C. 20407
Telephone: 202-426-7937

BIBLIOGRAPHIC SECTION

REPORT NO.	PE NO.	
EPA-R1-72-002	1AA007	**Physiological Adaptations to Carbon Monoxide Levels and Exercise in Normal Men** BY C. R. Collier, Southern California, University of Los Angeles, CA **ORDER FROM: NTIS-PB** 213 834 $3.00
EPA-R1-72-003	1AA007	**Interactions of Various Air Pollutants on Causation of Pulmonary Disease** BY R. Ehrlich, and J. D. Fenters, IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 214 064 $4.50
EPA-R1-73-001	1805	**Plant Analysis for Nutrient Assay of Natural Waters** BY G. C. Gerloff, Wisconsin, University of Madison, WI **ORDER FROM: GPO-**EP1.23/4:R1-73-001 95¢ **NTIS-PB** 221 332
EPA-R1-73-004	1AA007	**Research Study to Determine the Range of Carboxyhemoglobin in Various Segments of the American Population** Wisconsin, Medical College of Milwaukee, WI **ORDER FROM: NTIS-PB** 210 021 $3.00
EPA-R1-73-005	1HA099	**Survey of Air and Population Lead Levels in Selected American Communities, A** BY L. B. Tepper, and L. S. Levin, Cincinnati, University of Cincinnati, OH **ORDER FROM: NTIS-PB** 222 459 $3.75
EPA-R2-72-001	1205	**Evaluation of Waste Waters from Petroleum and Coal Processing** BY L. E. Streebin, and G. W. Reid, Oklahoma, University of Norman, OK **ORDER FROM: GPO-**EP1.23/2:R2-72-001 $2.75 **NTIS-PB** 214 610 $5.25
EPA-R2-72-002	1401	**Pyritic Systems: A Mathematical Model** BY A. H. Morth, E. E. Smith, and K. S. Shumate, Ohio State University Columbus, OH **ORDER FROM: GPO-**EP1.23/2:R2-72-002 $2.25 **NTIS-PB** 213 887
EPA-R2-72-004	1602	**Identification of Polychlorinated Biphenyls in the Presence of DDT-Type Compounds** Baird-Atomic, Incorporated Bedford, MA **ORDER FROM: GPO-**EP1.23/2:R2-72-004 $1.25 **NTIS-PB** 213 900
EPA-R2-72-005a	1613	**Workbook of Thermal Plume Prediction – Vol. I – Submerged Discharges** BY M. A. Shirazi, and L. R. Davis, National Environmental Research Center, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:R2-72-005a $1.75 **NTIS-PB** 228 293
EPA-R2-72-005b	1613	**Workbook of Thermal Plume Prediction – Vol. II – Surface Discharges** BY L. R. Davis, and M. A. Shirazi, National Environmental Research Center, EPA Corvallis, OR **ORDER FROM: GPO-**EP1.23/2:R2-72-005b $4.15

BIBLIOGRAPHIC SECTION

REPORT NO.	PE NO.	
EPA-R2-72-006	1508	**Free Floating Endless Belt Oil Skimmer, A** BY R. W. Agnew, Rex Chainbelt, Incorporated Milwaukee, WI **ORDER FROM: GPO**-EP1.23/2:R2-72-006 $1.50 **NTIS-PB** 214 103 $3.50
EPA-R2-72-007	1508	**Aerial Surveillance Spill Prevention System** BY C. L. Rudder, C. J. Reinheimer, and J. L. Berrey, McDonnell Aircraft Company, McDonnell Douglas Corporation St. Louis, MO **ORDER FROM: GPO**-EP1.23/2:R2-72-007 $3.00 **NTIS-PB** 221 484
EPA-R2-72-008	1102	**Swirl Concentrator as a Combined Sewer Overflow Regulator Facility, The** American Public Works Association, Research Foundation Chicago, IL **ORDER FROM: GPO**-EP1.23/2:R2-72-008 $2.25 **NTIS-PB** 214 687
EPA-R2-72-010	1509	**Rapid Detection System for Organophosphates and Carbamate Insecticide in Water** BY L. H. Goodson, Midwest Research Institute Kansas City, MO **ORDER FROM: GPO**-EP1.23/2:R2-72-010 95¢ **NTIS-PB** 214 764
EPA-R2-72-011	1DB063	**Management Information for Solid Waste Collection** BY R. M. Clark, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 213 308 $3.00
EPA-R2-72-012	1DB063	**Urban Solid Waste Management: Economic Case Study** BY R. M. Clark, National Environmental Research Center, EPA Cincinnati, OH **ORDER FROM: NTIS-PB** 213 394 $3.00
EPA-R2-72-013	1610	**Winter Survival of Fecal Indicator Bacteria in a Subarctic Alaskan River** BY R. C. Gordon, Alaska Water Laboratory, EPA College, AK **ORDER FROM: GPO**-EP1.23/2:R2-72-013 50¢ **NTIS-PB** 213 071 $3.00
EPA-R2-72-014	1402	**Rehabilitation of a Brine-Polluted Aquifer** BY J. S. Fryberger, Engineering Enterprises Norman, OK **ORDER FROM: GPO**-EP1.23/2:R2-72-014 $1.25 **NTIS-PB** 218 860
EPA-R2-72-015	1503	***Guidelines for* Erosion and Sediment Control Planning and Implementation** BY B. C. Becker, and T. R. Mills, Maryland, State of, Department of Water Resources Annapolis, MD Hittman Associates, Incorporated Columbia, MD **ORDER FROM: NTIS-PB** 213 119
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EPA-R2-73-216	1AB012	**Chemical Composition of Particulate Air Pollutants from Fossil-Fuel Combustion Sources** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: NTIS-PB** 219 009 $3.00
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EPA-R2-73-219	1AA010	**Feasibility Study of In-Situ Source Monitoring of Particiulate Composition by Roman or Fluorescence Scatter** BY M. L. Wright, Stanford Research Institute Menlo Park, CA **ORDER FROM: NTIS-PB** 225 042/1AS $5.50
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EPA-R2-73-229	1AB013	**Recent Developments in Desulfurization of Fuel Oil and Waste Gas in Japan (1973)** Processes Research, Incorporated Cincinnati, OH **ORDER FROM: NTIS-PB** 221 439 $10.25
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EPA-R2-73-231	1106	**Pressure Filtration of Waste Water Sludge with Ash Filter Aid** BY J. W. Gerlich, and M. D. Rockwell, Cedar Rapids, City of Cedar Rapids, IA **ORDER FROM: GPO**-EP1.23/2:R2-73-231 $2.10 **NTIS-PB** 223 535
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EPA-R5-73-023a	1BA030	**Capital and Operating Costs of Pollution Control Equipment Modules, Volume I: Users' Guide** BY H. C. Blecker, and T. W. Cadman, ICARUS Corporation Silver Spring, MD **ORDER FROM: GPO-**EP1.23/3:R5-73-023a $2.40 **NTIS-PB** 224 535/AS $4.90
EPA-R5-73-023b	1BA030	**Capital and Operating Costs of Pollution Control Equipment Modules, Volume II: Data Manual** BY H. C. Blecker, and T. M. Nichols, ICARUS Corporation Silver Spring, MD **ORDER FROM: GPO-**EP1.23/3:R5-73-023b $1.90 **NTIS-PB** 224 536/AS $3.90
EPA-R5-73-024	1BA030	**Environmental Impact Requirements in the States** BY T. C. Tryzna, California Public Affairs, Center for Claremont, CA **ORDER FROM: NTIS-PB** 223 748/AS $3.00

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EPA-SAB-73-001	1HA410	**Nitrogenous Compounds in the Environment** Office of Research and Development, Science Advisory Board, EPA Washington, DC **ORDER FROM: GPO- EP1.2:N63** - $2.20
EPA-11010EGO01/71	1101	**Phosphorus Removal by Ferrous Iron and Lime** Rand Development Corporation Cleveland, OH Lake, County of Painesville, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 208
EPA-11010ESQ08/71	1101	**Design Guides for Biological Wastewater Treatment Process** Austin, City of Austin, TX Texas, University of, Center for Research in Water Resources Austin, TX **ORDER FROM: GPO** $1.75
EPA-11010EVE01/71	1101	**Evaluation of Conditioning and Dewatering Sewage Sludge by Freezing** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** 70¢ **NTIS-PB** 213 122
EPA-11010FLQ03/71	1101	**Phosphorus Removal with Pickle Liquor in an Activated Sludge Plant** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 216
EPA-11010FMY10/70	1101	***Engineering Feasibility Demonstration Study for Muskegon County, Michigan* Wastewater Treatment-Irrigation System** Muskegon County Board Muskegon, MI Muskegon Department of Public Works Muskegon, MI **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 447
EPA-11020---09/67	1102	**Demonstrate the Feasibility of the Use of Ultrasonic Filtration in Treating the Overflows from Combined and/or Storm Sewers** Acoustica Association, Incorporated Los Angeles, CA **ORDER FROM: NTIS-PB** 201 745 $3.00
EPA-11020---12/67	1102	**Problems of Combined Sewer Facilities and Overflows – 1967** American Public Works Association Chicago, IL **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 469 $3.00
EPA-11020---05/68	1102	**Feasibility of a Stabilization-Retention Basin in Lake Erie at Cleveland, Ohio** Havens and Emerson Cleveland, OH **ORDER FROM: NTIS-PB** 195 083 $3.00
EPA-11020---06/69	1102	**Reduction in Infiltration by Zone Pumping** Hoffman and Fiske Lewiston, ID **ORDER FROM: NTIS-PB** 187 868 $3.00
EPA-11020---10/69	1102	**Crazed Resin Filtration of Combined Sewer Overflows** Hercules, Incorporated Wilmington, DE **ORDER FROM: NTIS-PB** 187 867 $3.00
EPA-11020---03/70	1102	**Combined Sewer Overflow Seminar Papers** Federal Water Quality Administration, Storm and Combined Sewer Pollution Control Branch, Division of Applied Science and Technology Washington, DC **ORDER FROM: NTIS-PB** 199 361 $3.00
EPA-11020---02/71	1102	**Deep Tunnels in Hard Rock** Wisconsin, University of, College of Applied Science and Engineering and University Extension Milwaukee, WI **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 854

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EPA-11020DGZ10/69	1102	**Design of a Combined Sewer Fluidic Regulator** Bowles Engineering Corporation Silver Spring, MD **ORDER FROM: NTIS-PB** 188 914 $3.00
EPA-11020DHQ06/72	1102	**Ground Water Infiltration and Internal Sealing of Sanitary Sewers, Montgomery County, Ohio** BY G. E. Cronk, Montgomery County Sanitary Department Dayton, OH **ORDER FROM: GPO** 75¢ **NTIS-PB** 212 267
EPA-11020DIG08/69	1102	**Polymers for Sewer Flow Control** Western Company Richardson, TX **ORDER FROM: NTIS-PB** 185 951 $3.00
EPA-11020DIH06/69	1102	**Improved Sealants for Infiltration Control** Western Company Richardson, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 185 950
EPA-11020DNO08/67	1102	**Feasibility of a Periodic Flushing System for Combined Sewer Cleansing** FMC Corporation Santa Clara, CA **ORDER FROM: NTIS-PB** 195 223 $3.00
EPA-11020DNO03/72	1102	**Flushing System for Combined Sewer Cleansing** FMC Corporation, Central Engineering Laboratories Santa Clara, CA **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 858
EPA-11020DWF12/69	1102	**Control of Pollution by Underwater Storage** Underwater Storage, Incorporated Washington, DC Silver Schwartz, Limited Washington, DC **ORDER FROM: GPO** $1.75 **NTIS-PB** 191 217
EPA-11020EKO10/69	1102	**Combined Sewer Separation Using Pressure Sewers** American Society of Civil Engineers Cambridge, MA **ORDER FROM: NTIS-PB** 188 511 $3.00
EPA-11020EXV07/69	1102	**Strainer/Filter Treatment of Combined Sewer Overflows** Fram Corporation East Providence, RI **ORDER FROM: NTIS-PB** 185 949 $3.00
EPA-11020FAL03/71	1102	**Evaluation of Storm Standby Tanks, Columbus, Ohio** Dodson, Kinney and Lindblom Columbus, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 236
EPA-11020FAQ03/71	1102	**Dispatching System for Control of Combined Sewer Losses** Metropolitan Sewer Board St. Paul, MN **ORDER FROM: GPO** $1.75 **NTIS-PB** 203 678
EPA-11020FDC01/72	1102	**Screening/Flotation Treatment of Combined Sewer Overflows** Rex Chainbelt, Incorporated, Ecology Division Milwaukee, WI **ORDER FROM: GPO** $1.50
EPA-11020FKI01/70	1102	**Dissolved-Air Flotation Treatment of Combined Sewer Overflows** Rhodes Corporation Oklahoma City, OK **ORDER FROM: NTIS-PB** 189 775 $3.00
EPA-11022DEI05/72	1102	**Sewer Bedding and Infiltration Gulf Coast Area** BY J. K. Mayer, F. W. Macdonald, and S. E. Steimle, Tulane University New Orleans, LA **ORDER FROM: GPO** $1.50 **NTIS-PB** 211 282

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EPA-11022DMU08/70	1102	**Combined Sewer Regulation and Management – A Manual of Practice** American Public Works Association Chicago, IL **ORDER FROM: GPO** $1.50 **NTIS-PB** 195 676
EPA-11022DPP10/70	1102	**Combined Sewer Temporary Underwater Storage Facility** Melpar Falls Church, VA **ORDER FROM: GPO** $1.75 **NTIS-PB** 197 669
EPA-11022ECV09/71	1102	**Underwater Storage of Combined Sewer Overflows** Karl R. Rohrer Associates, Incorporated Akron, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 208 346
EPA-11022EFF12/70	1102	**Control of Infiltration and Inflow into Sewer Systems** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 200 827 $8.75
EPA-11022EFF01/71	1102	**Prevention and Correction of Excessive Infiltration and Inflow Into Sewer Systems – A Manual of Practice** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 203 208 $7.75
EPA-11022ELK12/71	1102	**Maximizing Storage in Combined Sewer Systems** Seattle, Municipality of Metropolitan Seattle, WA **ORDER FROM: GPO** $1.75 **NTIS-PB** 209 861
EPA-11023---08/70	1102	**Retention Basin Control of Combined Sewer Overflows** Springfield Sanitary District Springfield, IL **ORDER FROM: GPO** $1.00 **NTIS-PB** 200 828
EPA-11023DAA03/72	1102	**Hypochlorite Generator for Treatment of Combined Sewer Overflows** Ionics Incorporated Watertown, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 243
EPA-11023DPI08/69	1102	**Rapid-Flow Filter for Sewer Overflows** Rand Development Corporation Cleveland, OH **ORDER FROM: NTIS-PB** 194 032 $3.00
EPA-11023DZF06/70	1102	**Ultrasonic Filtration of Combined Sewer Overflows** American Process Equipment Corporation Hawthorne, CA **ORDER FROM: GPO** 60¢ **NTIS-PB** 212 421
EPA-11023EVO06/70	1102	**Microstraining and Disinfection of Combined Sewer Overflows** Crane Company, Cochrane Division King of Prussia, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 195 674
EPA-11023EYI04/72	1102	**High Rate Filtration of Combined Sewer Overflows** BY R. Nebolsine, P. J. Harvey, and Chi-Yuan Fan, Hydrotechnic Corporation New York, NY **ORDER FROM: GPO** $2.50 **NTIS-PB** 211 144
EPA-11023FDB09/70	1102	**Chemical Treatment of Combined Sewer Overflows** Dow Chemical Company Midland, MI **ORDER FROM: GPO** $1.50 **NTIS-PB** 199 070
EPA-11023FDD03/70	1102	**Rotary Vibratory Fine Screening of Combined Sewer Overflows** Cornell, Howland, Hayes and Merryfield Corvallis, OR **ORDER FROM: GPO** $1.00 **NTIS-PB** 195 168

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EPA-11023FIX08/70	1102	**Conceptual Engineering Report-Kingman Lake Project** BY R. F. Weston, Weston, Roy F. West Chester, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 197 598
EPA-11024---06/70	1102	**Combined Sewer Overflow Abatement Technology** Federal Water Quality Administraion, Storm and Combined Sewer Pollution Control Branch, Division of Applied Science and Technology Washington, DC **ORDER FROM: GPO** $2.50 **NTIS-PB** 193 939
EPA-11024DMS05/70	1102	**Engineering Investigation of Sewer Overflow Problems** Hayes, Seay, Mattern and Mattern Roanoke, VA **ORDER FROM: GPO** $2.00 **NTIS-PB** 195 201
EPA-11024DOC07/71	1102	**Storm Water Management Model, Vol. I, Final Report** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 289 $21.25
EPA-11024DOC08/71	1102	**Storm Water Management Model, Vol. II, Verification and Testing** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 290 $12.25
EPA-11024DOC09/71	1102	**Storm Water Management Model, Vol. III, User's Manual** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 291 $21.75
EPA-11024DOC10/71	1102	**Storm Water Management Model, Vol. IV, Program Listing** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 292 $16.00
EPA-11024DOK02/70	1102	**Proposed Combined Sewer Control by Electrode Potential** Merrimack College Andover, MA **ORDER FROM: NTIS-PB** 195 169 $3.00
EPA-11024DQU10/70	1102	**Urban Runoff Characteristics** Cincinnati, University of Cincinnati, OH **ORDER FROM: GPO** $2.75 **NTIS-PB** 202 865
EPA-11024EJC07/70	1102	**Selected Urban Storm Water Runoff Abstracts, July 1968-June 1970** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** $2.75 **NTIS-PB** 198 228
EPA-11024EJC10/70	1102	**Selected Urban Storm Water Runoff Abstracts, First Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 229
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EPA-11024ELB01/71	1102	**Storm and Combined Sewer Pollution Sources and Abatement, Atlanta, Ga** Black, Crow and Eidsness, Incorporated Atlanta, GA **ORDER FROM: NTIS-PB** 201 725 $3.00

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EPA-11024EQE06/71	1102	**Impregnation of Concrete Pipe** Southwest Research Institute San Antonio, TX **ORDER FROM: GPO** 75¢
EPA-11024EQG03/71	1102	**Storm Water Problems and Control in Sanitary Sewers, Oakland and Berkeley, California** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: GPO** $4.00 **NTIS-PB** 208 815
EPA-11024EXF08/70	1102	**Combined Sewer Overflow Abatement Alternatives, Washington, D.C.** BY R. F. Weston, Roy F. Weston, Incorporated West Chester, PA **ORDER FROM: GPO** $2.00 **NTIS-PB** 203 680
EPA-11024FJE04/71	1102	**Selected Urban Storm Water Runoff Abstracts, Third Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 75¢
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EPA-11024FKJ10/70	1102	**In-Sewer Fixed Screening of Combined Sewer Overflows** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 118
EPA-11024FKM12/71	1102	**Urban Storm Runoff and Combined Sewer Overflow Pollution, Sacramento, California** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.75 **NTIS-PB** 208 989
EPA-11024FKN11/69	1102	**Stream Pollution and Abatement from Combined Sewer Overflows, Bucyrus, Ohio** Burgess and Niple, Limited Columbus, OH **ORDER FROM: GPO** $2.00 **NTIS-PB** 195 162
EPA-11024FLY06/71	1102	**Heat Shrinkable Tubing as Sewer Pipe Joints** Western Company of North America Richardson, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 816
EPA-11030DNK08/68	1103	**Beneficial Use of Storm Water** Hittman Associates, Incorporated Baltimore, MD **ORDER FROM: NTIS-PB** 195 160 $3.00
EPA-11030DNS01/69	1103	**Water Pollution Aspects of Urban Runoff** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 215 532 $3.00
EPA-11034DUY03/72	1103	**Investigation of Porous Pavements for Urban Runoff Control** BY E. Thelen, W. C. Grover, A. J. Hoiberg, and T. I. Haigh, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: NTIS-PB** 227 516 $10.00
EPA-11034FKL07/70	1103	**Storm Water Pollution From Urban Land Activity** AVCO Economic Systems Corporation Washington, DC **ORDER FROM: NTIS-PB** 195 281 $20.25
EPA-11034FLU06/71	1103	**Hydraulics of Long Vertical Conduits and Associated Cavitation** Minnesota, University of Minneapolis, MN **ORDER FROM: GPO** 60¢
EPA-11040GKK06/71	1104	**Environmental Impact of Highway Deicing** Edison Water Quality Laboratory, EPA Edison, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 493

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EPA-11050FKE12/69	1105	**Study of Flow Reduction and Treatment of Wastewater from Households** General Dynamics Electric Boat Division Groton, CT **ORDER FROM: GPO** $1.25 **NTIS-PB** 197 599
EPA-11060DPD02/71	1106	**Combined Treatment of Municipal Kraft Linerboard and Fiberboard Manufacturing Wastes** Macon, City of, Board of Water Commissioners Macon, GA Georgia Kraft Company Macon, GA Armstrong Cork Company Macon, GA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 215
EPA-11060EOC07/69	1106	**Joint Municipal and Semichemical Pulping Wastes** Erie, City of Erie, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 185 948
EPA-11060FAE11/69	1106	**Feasibility of Joint Treatment in a Lake Watershed** BY R. F. Weston, Roy F. Weston, Incorporated West Chester, PA **ORDER FROM: NTIS-PB** 201 698 $3.00
EPA-11060FAE04/71	1106	**Onondaga Lake Study** Onondaga County Syracuse, NY **ORDER FROM: GPO** $4.50 **NTIS-PB** 206 472
EPA-12000---07/71	1200	**Projects of the Industrial Pollution Control Branch** Industrial Pollution Control Branch, Applied Science and Technology, EPA Washington, DC **ORDER FROM: GPO** $2.50
EPA-12000FLX02/71	1200	**System for Industrial Waste Treatment RD&D Project Priority Assignment** Synectics Corporation Allison Park, PA **ORDER FROM: NTIS-PB** 206 146 $1.45 microfiche
EPA-12010DIM08/70	1201	**Pyrite Depression by Reduction of Solution Oxidation Potential** Utah, University of Salt Lake City, UT **ORDER FROM: GPO** 70¢ **NTIS-PB** 200 257
EPA-12010DPF11/71	1201	**Brass Wire Mill Process Changes and Waste Abatement, Recovery and Reuse** Volco Brass and Copper Company Kenilworth, NJ **ORDER FROM: GPO** 55¢
EPA-12010DRH11/71	1201	**Ultrathin Membranes for Treating Metal Finishing Effluents by Reverse Osmosis** North Star Research and Development Institute Minneapolis, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 211
EPA-12010DTQ02/72	1201	**Combined Steel Mill and Municipal Wastewaters Treatment** National Steel Corporation, Weirton Steel Division Weirton, WV **ORDER FROM: GPO** $1.50 **NTIS-PB** 210 198
EPA-12010DUL02/71	1201	**Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel** Armco Steel Corporation Middleton, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 233
EPA-12010EIE11/68	1201	**State of the Art Review of Metal Finishing Waste Treatment** Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 207
EPA-12010EIE03/71	1201	**Investigation of Techniques for Removal of Chromium from Electroplating Wastes** Battelle Memorial Institute Columbus, OH **ORDER FROM: NTIS-PB** 215 694 $6.75

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EPA-12010EQF03/71	1201	**Electromembrane Process for Regenerating Acid from Spent Pickle Liquor** Southern Research Institute Birmingham, AL **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 651
EPA-12010EZV02/70	1201	**Treatment of Waste Water-Waste Oil Mixtures** Armco Steel Corporation Middletown, OH **ORDER FROM: NTIS-PB** 195 161 $1.45 microfiche
EPA-12020---02/70	1202	**Petrochemical Effluents Treatment Practices – Summary** Engineering-Sciences, Incorporated/Texas Austin, TX **ORDER FROM: NTIS-PB** 192 310 $3.00
EPA-12020DIS01/72	1202	**Anaerobic Treatment of Synthetic Organic Wastes** BY J. C. Hovious, J. A. Fisher, and R. A. Conway, Union Carbide Corporation South Charleston, WV **ORDER FROM: GPO** $1.75 **NTIS-PB** 211 130
EPA-12020DJI06/71	1202	**Wastewater Treatment Facilities for a Polyvinyl Chloride Production Plant** B. F. Goodrich Chemical Company Cleveland, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 464
EPA-12020DQC03/71	1202	**Polymeric Materials for Treatment and Recovery of Petrochemical Waste** Gulf South Research Institute New Orleans, LA **ORDER FROM: GPO** 70¢ **NTIS-PB** 201 699
EPA-12020EEQ10/71	1202	**Treatment of Wastewater from the Production of Polyhydric Organics** Dow Chemical Company, Texas Division Freeport, TX **ORDER FROM: GPO** $1.75
EPA-12020EID03/71	1202	**Preliminary Investigational Requirements – Petrochemical and Refinery Waste Treatment** Engineering-Science, Incorporated Austin, TX **ORDER FROM: GPO** $1.50 **NTIS-PB** 212 369
EPA-12020EJI07/71	1202	**Inorganic Chemicals Industry Profile** Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.75 **NTIS-PB** 206 308
EPA-12020EXG03/72	1202	**Effect of Chlorination on Selected Organic Chemicals** Manufacturing Chemists Association Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 160
EPA-12020FPD09/71	1202	**Inorganic Fertilizer and Phosphate Mining Industries – Water Pollution and Control** Battelle Memorial Institute Richland, WA **ORDER FROM: GPO** $1.75 **NTIS-PB** 206 154
EPA-12020FYE01/72	1202	**Pesticide Manufacturing Industry – Current Waste Treatment and Disposal Practices** BY P. R. Atkins, Texas, University of Austin, TX **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 129
EPA-12020GND07/71	1202	**Projected Wastewater Treatment Costs in the Organic Chemicals Industry** Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 429

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EPA-12040DLQ08/71	1204	**Slime Growth Evaluation of Treated Pulp Mill Waste** Oregon State University, Department of Microbiology Corvallis, OR **ORDER FROM: GPO** 60¢
EPA-12040EBY08/70	1204	**Aerial Photographic Tracing of Pulp Mill Effluent in Marine Waters** Oregon State University Corvallis, OR **ORDER FROM: GPO** $1.25 **NTIS-PB** 198 232
EPA-12040EEK08/71	1204	**Treatment of Selected Internal Kraft Mill Wastes in a Cooling Tower** Georgia Kraft Company Rome, GA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 217
EPA-12040EEL02/72	1204	**Reverse Osmosis Concentration of Dilute Pulp and Paper Effluents** BY A. J. Wiley, G. A. Dubey, and I. K. Bansal, Pulp Manufacturers Research League Appleton, WI Institute of Paper Chemistry Appleton, WI **ORDER FROM: GPO** $2.75 **NTIS-PB** 211 184
EPA-12040EFC01/71	1204	**Pollution Abatement by Fiber Modification** Washington, University of, College of Forest Resources Seattle, WA **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 219
EPA-12040ELW12/70	1204	**Aerated Lagoon Treatment of Sulfite Pulping Effluents** Crown Zellerbach Corporation Lebanon, OR **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 212
EPA-12040EMY12/71	1204	**Multi-System Biological Treatment of Bleached Kraft Effluents** Mead Corporation Chillicothe, OH **ORDER FROM: GPO** $2.00 **NTIS-PB** 208 213
EPA-12040ENC12/71	1204	**Color Removal from Kraft Pulping Effluent by Lime Addition** Interstate Paper Corporation Riceboro, GA **ORDER FROM: GPO** $1.25
EPA-12040EUG10/69	1204	**Foam Separation of Kraft Pulping Wastes** Georgia Kraft Company Rome, GA **ORDER FROM: NTIS-PB** 189 160 $3.00
EPA-12040EZZ04/70	1204	**Dilute Spent Kraft Liquor Filtration through Wood Chips** North Carolina, University of, School of Forest Resources Raleigh, NC **ORDER FROM: NTIS-PB** 191 873 $3.00
EPA-12040FES07/71	1204	**Sludge Material Recovery System for Manufacturers of Pigmented Papers** S. D. Warren Company, Division of Scott Paper Company Westbrook, ME **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 026
EPA-12040FUB01/72	1204	**Recycle of Papermill Waste Waters and Application of Reverse Osmosis** BY D. C. Morris, W. R. Nelson, and G. O. Walraven, Green Bay Packaging, Incorporated Green Bay, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 021
EPA-12050DRC11/71	1205	**Experimental Evaluation of Fibrous Bed Coalescers for Separating Oil-Water Emulsions** Illinois Institute of Technology, Department of Chemical Engineering Chicago, IL **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 144
EPA-12050DSH03/71	1205	**Impact of Oily Materials on Activated Sludge Systems** Hydroscience, Incorporated Westwood, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 212 422
EPA-12050EKT03/71	1205	**Fluid Bed Incineration of Petroleum Refinery Wastes** American Oil Company Mandan, ND **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 570

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EPA-12060---03/68	1206	**Potato Waste Treatment (Proceedings of a Symposium)** Idaho, University of Moscow, ID Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 218 $3.00
EPA-12060---03/68*	1206	**Aerated Lagoon Treatment of Food Processing Wastes** BY K. A. Dostal, Pacific Northwest Water Laboratory, Water Quality Office, EPA Corvallis, OR **ORDER FROM: GPO** 55¢ **NTIS-PB** 214 875
EPA-12060---07/69	1206	**Secondary Treatment of Potato Processing Wastes** Pacific Northwest Water Laboratory, Water Quality Office, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 202 234 $6.50
EPA-12060---10/69	1206	**Current Practice in Potato Processing Waste Treatment** Washington, University of Seattle, WA **ORDER FROM: GPO** $1.00 **NTIS-PB** 189 232
EPA-12060---04/70	1206	**Proceedings First National Symposium on Food Processing Wastes** National Canners Association Berkeley, CA Northwest Food Processors Association Portland, OR Agriculture, U.S. Department of Albany, CA Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 199 709 $23.00
EPA-12060---08/70	1206	**Waste Reduction in Food Canning Operations** National Canners Association Berkeley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 231
EPA-12060---10/70	1206	**Treatment of Citrus Processing Wastes** Coca-Cola Company, Foods Division Orlando, FL **ORDER FROM: GPO** $2.75 **NTIS-PB** 202 238
EPA-12060---03/71	1206	**Proceedings Second National Symposium on Food Processing Wastes** Pacific Northwest Water Laboratory, EPA Corvallis, OR National Canners Association Washington, DC **ORDER FROM: GPO** $4.50
EPA-12060DSB09/71	1206	**Demonstration of a Full-Scale Waste Treatment System for a Cannery** BY L. E. Streebin, G. W. Reid, and A. C. H. Hu, Oklahoma, University of Norman, OK **ORDER FROM: GPO** $1.50
EPA-12060DSI07/71	1206	**State-of-Art, Sugarbeet Processing Waste Treatment** Beet Sugar Development Foundation Fort Collins, CO **ORDER FROM: GPO** $1.25 **NTIS-PB** 207 646
EPA-12060DXF07/71	1206	**Membrane Processing of Cottage Cheese Whey for Pollution Abatement** Crowley's Milk Company Binghamton, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 936
EPA-12060DXL01/71	1206	**Reduction of Salt Content of Food Processing Liquid Waste Effluent** National Canners Association Berkeley, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 203 963
EPA-12060EAE09/71	1206	**Trickling Filter Treatment of Fruit Processing Waste Waters** National Canners Association Berkeley, CA **ORDER FROM: GPO** 50¢ **NTIS-PB** 210 586
EPA-12060ECF04/70	1206	**Current Practice in Seafoods Processing Waste Treatment** Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 202 232 $3.00

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EPA-12060EDK08/71	1206	**Liquid Wastes from Canning and Freezing Fruits and Vegetables** National Canners Association Berkeley, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 941
EPA-12060EDZ08/71	1206	**Pilot Plant Installation for Fungal Treatment of Vegetable Canning Wastes** Green Giant Company Le Suer, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 206
EPA-12060EGU03/71	1206	**Dairy Food Plant Wastes and Waste Treatment Practices** Ohio State University, Department of Dairy Technology Columbus, OH **ORDER FROM: NTIS-PB** 231 372 $10.75
EPA-12060EHT07/70	1206	**Use of Fungi Imperfecti in Waste Control** North Star Research and Development Institute Minneapolis, MN **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 231
EPA-12060EHU03/71	1206	**Reconditioning of Food Processing Brines** National Canners Association Berkeley, CA **ORDER FROM: GPO** 75¢ **NTIS-PB** 212 394
EPA-12060EHV12/70	1206	**Aerobic Secondary Treatment of Potato Processing Wastes** R. T. French Company Shelley, ID **ORDER FROM: GPO** $1.50 **NTIS-PB** 200 623
EPA-12060EZP09/70	1206	**Cannery Waste Treatment Kehr Activated Sludge** FMC Corporation Santa Clara, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 199 071
EPA-12060EZY08/71	1206	**Complete Mix Activated Sludge Treatment of Citrus Process Wastes** Winter Garden Citrus Products Cooperative Winter Garden, FL **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 407
EPA-12060FAD10/69	1206	**Aerobic Treatment of Fruit Processing Wastes** Snokist Growers Yakima, WA **ORDER FROM: NTIS-PB** 188 506 $3.00
EPA-12060FDS11/71	1206	**Elimination of Water Pollution by Packing-house Animal Paunch and Blood** Beefland International, Incorporated Council Bluffs, IA **ORDER FROM: GPO** 50¢ **NTIS-PB** 211 023
EPA-12060FQE12/70	1206	**Dry Caustic Peeling of Tree Fruit for Liquid Waste Reduction** National Canners Association Berkeley, CA **ORDER FROM: GPO** 60¢ **NTIS-PB** 208 209
EPA-12080EZF09/70	1208	**Phenolic Water Reuse by Diatomite Filtration** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 199 069
EPA-12090DWM01/71	1209	**Bio-Regenerated Activated Carbon Treatment of Textile Dye Wastewater** Fram Corporation Providence, RI **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 599
EPA-12090ECS02/71	1209	**State of the Art of Textile Waste Treatment** Clemson University Clemson, SC **ORDER FROM: GPO** $2.50 **NTIS-PB** 212 359
EPA-12090EOE01/72	1209	**Water Pollution Reduction Through Recovery of Desizing Wastes** North Carolina State University, Department of Textile Chemistry Raleigh, NC **ORDER FROM: GPO** 60¢ **NTIS-PB** 211 245

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EPA-12090ESG01/71	1209	**Zinc Precipitation and Recovery from Viscose Rayon Wastewater** American Enka Company Enka, NC **ORDER FROM: GPO** $1.00 **NTIS-PB** 205 205
EPA-12090EUX10/70	1209	**Reuse of Chemical Fiber Plant Wastewater and Cooling Water Blowdown** Fiber Industries, Incorporated Charlotte, NC Davis and Floyd Engineers, Incorporated Greenwood, SC **ORDER FROM: GPO** 70¢ **NTIS-PB** 200 695
EPA-12120---09/69	1212	**Activated Sludge Treatment of Chrome Tannery Wastes** A. C. Lawrence Company Peabody, MA **ORDER FROM: GPO** $2.00 **NTIS-PB** 186 158
EPA-12120---09/70	1212	**Treatment of Sole Leather Vegetable Tannery Wastes** BY J. D. Eye, Cincinnati, University of Cincinnati, OH **ORDER FROM: GPO** $1.25 **NTIS-PB** 199 068
EPA-12120DIK12/70	1212	**Anaerobic-Aerobic Lagoon Treatment for Vegetable Tanning Wastes** Virginia, University of Charlottesville, VA **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 235
EPA-12120ERC08/69	1212	**Disposal of Wastes from Water Treatment Plants** American Water Works Association Research Foundation New York, NY **ORDER FROM: NTIS-PB** 186 157 $3.00
EPA-12120ESW06/71	1212	**Magnesium Carbonate, A Recycled Coagulant for Water Treatment** Gainesville, City of, Department of Public Utilities Gainesville, FL **ORDER FROM: GPO** $1.00 **NTIS-PB** 209 938
EPA-12120EUR11/71	1212	**Information Resource: Water Pollution Control in the Water Utility Industry** American Water Works Association Research Foundation New York, NY **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 860
EPA-12120FYF03/72	1212	**Fluidized-Bed Incineration of Selected Carbonaceous Industrial Wastes** Battelle Laboratories Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 161
EPA-12130DUJ09/71	1213	**Whey Effluent Packed Tower Trickling Filtration** Quirk, Lawler and Matusky Engineers Tappan, NY Walton, Village of Walton, NY **ORDER FROM: GPO** $1.50 **NTIS-PB** 210 408
EPA-12130EDX07/70	1213	**Joint Treatment of Municipal Sewage and Pulp Mill Effluents** Green Bay Metropolitan Sewerage District Green Bay, WI **ORDER FROM: GPO** $6.00
EPA-12130EGK06/71	1213	**Biological Treatment of Chlorophenolic Wastes** Jacksonville, City of Jacksonville, AR **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 813
EPA-12130EZR05/71	1213	**Combined Treatment of Domestic and Industrial Wastes by Activated Sludge** Dallas, City of Dallas, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 205 206
EPA-12130FJQ06/71	1213	**Pollution Abatement and By-Product Recovery in Shellfish and Fisheries Processing** Food, Chemical and Research Laboratories, Incorporated Seattle, WA Engineering-Science of Alaska Anchorage, AK **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 214
EPA-13010---02/70	1301	**Industrial Waste Guide on Logging Practices** Northwest Region, FWPCA Portland, OR **ORDER FROM: NTIS-PB** 207 644 $3.00

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EPA-13010EGA02/71	1301	**Studies on Effects of Watershed Practices on Streams** Oregon State University Corvallis, OR **ORDER FROM: GPO** $1.50
EPA-13020---07/71	1302	**Agricultural Pollution of the Great Lakes Basin** Canada, Government of U. S., Government of EPA, Washington, DC **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 906
EPA-13020DGX08/71	1302	**Role of Animal Wastes in Agricultural Land Runoff** North Carolina State University, School of Agricultural and Life Sciences Raleigh, NC **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 213
EPA-13020DPB08/71	1302	**Management of Nutrients on Agricultural Land for Improved Water Quality** Cornell University, Department of Agronomy, College of Agriculture and Life Sciences Ithaca, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 858
EPA-13030---05/69	1303	**Characteristics and Pollution Problems of Irrigation Return Flow** Utah State University Foundation Logan, UT **ORDER FROM: NTIS-PB** 204 817 $3.00
EPA-13030---11/71	1303	**Research Needs for Irrigation Return Flow Quality Control** BY G. V. Skogerboe, and J. P. Law, Colorado State University Fort Collins, CO Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 219 979
EPA-13030DYY06/69	1303	**Water Quality Management Problems in Arid Regions** Robert S. Kerr Water Research Center, Federal Water Quality Administration Ada, OK **ORDER FROM: NTIS-PB** 198 125 $3.00
EPA-13030ELY12/69	1303	**Collected Papers Regarding Nitrates in Agricultural Waste Waters** Federal Water Quality Administration San Francisco, CA Reclamation, U.S. Bureau of Sacramento, CA California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 595
EPA-13030ELY04/71-07	1303	**Removal of Nitrate by an Algal System** California Departmrnt of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 205 425 $3.00
EPA-13030ELY04/71-08	1303	**Denitrification by Anaerobic Filters and Ponds** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 75¢ **NTIS-PB** 213 719
EPA-13030ELY05/71-12	1303	**Desalination of Agricultural Tile Drainage** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 890
EPA-13030ELY05/71-03	1303	**Nutrients from Tile Drainage Systems** California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 216 552
EPA-13030ELY05/71-06	1303	**Removal of Nitrogen from Tile Drainage – A Summary Report** California Department of Water Resources San Joaquin Valley, CA Environmental Protection Agency Ada, OK **ORDER FROM: GPO** 50¢ **NTIS-PB** 215 417
EPA-13030ELY06/71-10	1303	**Techniques to Reduce Nitrogen in Drainage Effluent During Transport** Reclamation, U.S. Bureau of, Region II Sacramento, CA **ORDER FROM: GPO** 60¢

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EPA-13030ELY06/71-13	1303	**Removal of Nitrate by an Algal System – Phase II** California Department of Water Resources San Joaquin Valley, CA **ORDER FROM: GPO** $2.10
EPA-13030ELY06/71-14	1303	**Denitrification by Anaerobic Filters and Ponds – Phase II** Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.00
EPA-13030ELY08/71-09	1303	**Effects of Agricultural Waste Water Treatment on Algal Bioassay Response** Environmental Protection Agency San Francisco, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 891
EPA-13030ELY05/72-11	1303	**Possibility of Reducing Nitrogen in Drainage Water by On Farm Practices** Reclamation, U.S. Bureau of Sacramento, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 221 482
EPA-13030GJS12/71	1303	**National Irrigation Return Flow Research and Development Program** BY J. P. Law Jr., Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 40¢ **NTIS-PB** 209 857
EPA-13040---07/68	1304	**Pollution Implications of Animal Wastes – A Forward Oriented Review** BY R. C. Loehr, Cornell University Ithaca, NY **ORDER FROM: NTIS-PB** 204 818 $3.00
EPA-13040DEM01/71	1304	**Characteristics of Wastes from Southwestern Cattle Feedlots** Texas Technology University Lubbock, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 214
EPA-13040DKP06/71	1304	**Closed System Waste Management for Livestock** BY P. O. Ngoddy, J. P. Harper, F. A. Heidar, R. K. Collins, and G. D. Wells, Michigan State University East Lansing, MI **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 022
EPA-13040EYX11/69	1304	**Agricultural Practices and Water Quality** Iowa State University Ames, IA **ORDER FROM: NTIS-PB** 199 828 $3.00
EPA-13040FXG11/71	1304	**Evaluation of Beef Cattle Feedlot Waste Management Alternatives** BY A. F. Butchbaker, J. E. Garton, G. W. A. Mahoney, and M. D. Paine, Oklahoma State University Stillwater, OK **ORDER FROM: GPO** $2.50 **NTIS-PB** 211 242
EPA-14010---06/70	1401	**Oxygenation of Ferrous Iron** Harvard University Cambridge, MA **ORDER FROM: GPO** $1.75 **NTIS-PB** 189 233
EPA-14010DAY06/71	1401	**Inorganic Sulfur Oxidation by Iron-Oxidizing Bacteria** Syracuse University Syracuse, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 006
EPA-14010DDH08/71	1401	**Control of Mine Drainage from Coal Mine Mineral Wastes – Phase I – Hydrology and Related Experiments** Truax-Traer Coal Company Pinckneyville, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 194
EPA-14010DEE12/70	1401	**Treatment of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 470

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EPA-14010DII05/71	1401	**Rotary Precoat Filtration of Sludge from Acid Mine Drainage Neutralization** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 190
EPA-14010DKN11/70	1401	**Microbial Factor in Acid Mine Drainage Formation** Mellon Institute, Carnegie-Mellon University Pittsburgh, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 196 113
EPA-14010DLC11/69	1401	**Sulfide Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: NTIS-PB** 187 866 $3.00
EPA-14010DLI02/71	1401	**Silicate Treatment for Acid Mine Drainage Prevention** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 427
EPA-14010DMO03/70	1401	**New Mine Sealing Techniques for Water Pollution Abatement** Halliburton Company Duncan, OK **ORDER FROM: GPO** $1.50 **NTIS-PB** 196 736
EPA-14010DMO03/70-A	1401	**Investigative Mine Survey of a Small Watershed** Halliburton Company Duncan, OK **ORDER FROM: GPO** $2.00 **NTIS-PB** 196 110
EPA-14010DRB05/71	1401	**Flocculation and Clarification of Mineral Suspensions** Minnesota, University of Minneapolis, MN **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 238
EPA-14010DRZ02/71	1401	**Purification of Mine Water by Freezing** Applied Science Laboratories, Incorporated State College, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 213 121
EPA-14010DYG08/71	1401	**Acid Mine Waste Treatment Using Reverse Osmosis** Gulf Environmental Systems Company San Diego, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 228
EPA-14010DYH12/71	1401	**Neutradesulfating Treatment Process for Acid Mine Drainage** Catalytic, Incorporated Philadelphia, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 720
EPA-14010DYI02/71	1401	**Evaluation of a New Acid Mine Drainage Treatment Process** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 571
EPA-14010DYK03/70	1401	**Treatment of Acid Mine Drainage by Reverse Osmosis** Rex Chainbelt, Incorporated Milwaukee, WI Pennsylvania, Commonwealth of Harrisburg, PA **ORDER FROM: GPO** 55¢ **NTIS-PB** 195 200
EPA-14010DZM08/70	1401	**Feasibility Study of Mining Coal in an Oxygen Free Atmosphere** Island Creek Coal Company Holden, WV Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 446
EPA-14010ECC08/71	1401	**Effects of Various Gas Atmospheres on the Oxidation of Coal Mine Pyrites** Cyrus Wm. Rice Division, NUS Corporation Pittsburgh, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 679
EPA-14010EFK06/72	1401	**Use of Latex as a Soil Sealant to Control Acid Mine Drainage** Uniroyal, Incorporated Wayne, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 040

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EPA-14010EGJ11/69	1401	**Effects of Antibacterial Agents on Mine Drainage** MSA Research Corporation Evans, PA Pennsylvania Department of Mines and Mineral Industries Harrisburg, PA **ORDER FROM: NTIS-PB** 191 215 $3.00
EPA-14010EHN04/71	1401	**Detection of Abandoned Underground Coal Mines by Geophysical Methods** HRB-Singer, Incorporated State College, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 554
EPA-14010EIZ01/70	1401	**Limestone Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 195 282
EPA-14010EIZ12/71	1401	**Studies of Limestone Treatment of Acid Mine Drainage – Part II** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 326
EPA-14010EJE12/71	1401	**Mine Spoil Potentials for Water Quality and Controlled Erosion** West Virginia University, College of Agriculture and Forestry Morgantown, WV **ORDER FROM: GPO** $1.75 **NTIS-PB** 208 817
EPA-14010EJT09/71	1401	**Studies on Densification of Coal Mine Drainage Sludge** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 189
EPA-14010EMS09/69	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. I** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 757 $3.00
EPA-14010EMS09/69*	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. II** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 758 $3.00
EPA-14010EMS09/69**	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Vol. III** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 759 $3.00
EPA-14010EMS09/69***	1401	**Bulk Transport of Waste Slurries to Inland and Ocean Disposal Sites – Summary** Bechtel Corporation San Francisco, CA **ORDER FROM: NTIS-PB** 189 756 $3.00
EPA-14010ENW09/71	1401	**Microbiological Treatment of Acid Mine Drainage Waters** Continental Oil Company Ponca City, OK **ORDER FROM: GPO** $1.00 **NTIS-PB** 206 231
EPA-14010ETV08/70	1401	**Neutralization of High Ferric Iron Acid Mine Drainage** BY R. C. Wilmoth, and R. D. Hill, Federal Water Quality Administration Cincinnati, OH **ORDER FROM: GPO** 50¢ **NTIS-PB** 192 087
EPA-14010EXA03/71	1401	**Pilot Scale Study of Acid Mine Drainage** Ohio State University Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 771
EPA-14010FBZ09/71	1401	**Concentrated Mine Drainage Disposal Into Sewage Treatment Systems** Environmental Research and Applications, Incorporated Wilton, CT **ORDER FROM: GPO** 75¢ **NTIS-PB** 213 042
EPA-14010FII03/71	1401	**Evaluation of Pyritic Oxidation by Nuclear Methods** Carnegie-Mellon University, Mellon Institute Pittsburgh, PA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 523

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EPA-14010FJX12/71	1401	**Dewatering of Mine Drainage Sludge** West Virginia University, Coal Research Bureau Morgantown, WV **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 347
EPA-14010FKK12/70	1401	**Underground Coal Mining Methods to Abate Water Pollution** West Virginia University Morgantown, WV **ORDER FROM: GPO** 60¢ **NTIS-PB** 214 697
EPA-14010FLW07/70	1401	**Feasibility Study Manual – Mine Water Pollution Control Demonstration** Federal Water Quality Administration Washington, DC **ORDER FROM: GPO** 65¢ **NTIS-PB** 197 594
EPA-14010FMH12/70	1401	**Treatment of Acid Mine Drainage by Ozone Oxidation** Atomic Energy Commission Upton, NY Brookhaven National Laboratories Upton, NY Associated Universities, Incorporated Upton, NY **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 225
EPA-14010FNQ02/72	1401	**Electrochemical Treatment of Acid Mine Waters** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 820
EPA-14010FOA02/71	1401	**Carbonate Bonding of Coal Refuse** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** 60¢ **NTIS-PB** 198 230
EPA-14010FPR04/71	1401	**Acid Mine Drainage Formation and Abatement** Ohio State University Research Foundation Columbus, OH **ORDER FROM: NTIS-PB** 199 835 $3.00
EPA-14010FPS02/70	1401	**Sulfide to Sulfate Reaction Mechanism** Ohio State University Research Foundation Columbus, OH **ORDER FROM: GPO** $1.50
EPA-14010FQR03/72	1401	**Reverse Osmosis Demineralization of Acid Mine Drainage** Rex Chainbelt, Incorporated, Ecology Division Milwaukee, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 020
EPA-14010FUI10/71	1401	**Foam Separation of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** 65¢ **NTIS-PB** 208 411
EPA-14010FYY09/71	1401	**Study of Sulfur Recovery from Coal Refuse** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 203 488
EPA-14010FZU03/72	1401	**Legal Problems of Coal Mine Reclamation** Maryland School of Law, University of Baltimore, MD **ORDER FROM: GPO** $2.00 **NTIS-PB** 209 862
EPA-14010HBQ09/71	1401	**Feasibility Study Upper Meander Creek Mine Drainage Abatement Project** Stanley Consultants Cleveland, OH **ORDER FROM: GPO** 60¢ **NTIS-PB** 206 232
EPA-14030EDB12/71	1403	**Water Pollution Potential of Spent Oil Shale Residues** Colorado State University Fort Collins, CO **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 808
EPA-14050EPU08/71	1405	**Utilization of Phosphate Slime** International Minerals and Chemical Corporation Skokie, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 191

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EPA-15010---01/69	1501	**Basic Waste Characteristics at Winter Recreation Areas** BY B. D. Clark, Pacific Northwest Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 437 $3.00
EPA-15010---03/70	1501	**Working Paper No. 68 – Evaluation of Extended Aeration Treatment at Recreation Areas** BY B. D. Clark, Pacific Northwest Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 436 $3.00
EPA-15020---06/67	1502	**Houseboat Wastes: Methods for Collection and Treatment** BY B. D. Clark, Pacific Northwest Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 439 $3.00
EPA-15020---04/68	1502	**Houseboat Waste Characteristics and Treatment** BY B. D. Clark, Pacific Northwest Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 438 $3.00
EPA-15020DGR08/70	1502	**Flexible Holding Tank for Pleasurecraft Sanitary System** Uniroyal, Incorporated Wayne, NJ **ORDER FROM: GPO** 55¢ **NTIS-PB** 201 700
EPA-15020DHB04/70	1502	**Storage of Wastes from Watercraft and Disposal at Shore Facilities** General Dynamics Electric Boat Division Groton, CT **ORDER FROM: GPO** $1.00
EPA-15020DHE09/69	1502	**Collection, Underwater Storage, and Disposal of Pleasurecraft Wastes** Underwater Storage, Incorporated Washington, DC Silver Schwartz, Limited Washington, DC **ORDER FROM: NTIS-PB** 188 505 $3.00
EPA-15020DHG09/71	1502	**Watercraft Waste Treatment System Development and Demonstration Report** General Electric Company Philadelphia, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 345
EPA-15020ENN09/71	1502	**Control of Pollution from Outboard Engine Exhaust: A Reconnaissance Study** Rensselaer Polytechnic Institute Troy, NY **ORDER FROM: GPO** 50¢ **NTIS-PB** 206 192
EPA-15030DTL05/70	1503	**Urban Soil Erosion and Sediment Control** National Association of Counties Research Foundation Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 196 111
EPA-15040EJZ12/70	1504	**Selective Withdrawal from a Stratified Reservoir** California, University of Berkeley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 726
EPA-15080---03/69	1508	**Chemical Treatment of Oil Slicks** Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 185 947 $3.00
EPA-15080---10/70	1508	**Oil Containment Systems** Edison Water Quality Laboratory, FWQA Edison, NJ **ORDER FROM: NTIS-PB** 206 797 $3.00
EPA-15080DBO03/71	1508	**Conversion of Crankcase Waste Oil into Useful Products** National Oil Recovery Corporation Bayonne, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 205 207
EPA-15080DJM07/70	1508	**Recovery of Oil Spills Using Vortex Assisted Airlift System** Battelle Memorial Institute Richland, WA **ORDER FROM: GPO** 50¢ **NTIS-PB** 203 489

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EPA-15080DJN01/71	1508	**Gelling Crude Oils to Reduce Marine Pollution From Tanker Oil Spills** Western Company of North America Richardson, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 202 239
EPA-15080DJO10/69	1508	**Oil Tagging System Study – Summary** Melpar, Incorporated Arlington, VA **ORDER FROM: NTIS-PB** 190 193 $3.00
EPA-15080DJO05/70	1508	**Oil Tagging System Study – Final Report** Melpar, Incorporated Arlington, VA **ORDER FROM: GPO** $1.50 **NTIS-PB** 195 283
EPA-15080DJP10/70	1508	**Oil/Water Separation System with Sea Skimmer** Garrett Corporation, Research Manufacturing Division Los Angeles, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 211 604
EPA-15080DJQ04/70	1508	**Ultrasonic Emulsification of Oil Tanker Cargo** Sonics International, Incorporated Dallas, TX **ORDER FROM: NTIS-PB** 193 674 $3.00
EPA-15080DOZ12/70	1508	**Testing and Evaluation of Oil Spill Recovery Equipment** Maine Port Authority Portland, ME **ORDER FROM: GPO** $1.50 **NTIS-PB** 200 081
EPA-15080DXE11/70	1508	**Feasibility Analysis of Incinerator Systems for Restoration of Oil Contaminated Beaches** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** 75¢ **NTIS-PB** 198 227
EPA-15080DZR11/70	1508	**Santa Barbara Oil Pollution, 1969** California, University of Santa Barbara, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 197 670
EPA-15080EAG07/69	1508	**Review of Santa Barbara Channel Oil Pollution Incident** Battelle Memorial Institute, Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 191 712 $3.00
EPA-15080EAL02/71	1508	**Santa Barbara Oil Spill: Short-term Analysis of Macroplankton and Fish** California, University of Santa Barbara, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 212 782
EPA-15080EBZ12/70	1508	**Effects of Oil Pollution on Waterfowl: A Study of Salvage Methods** San Diego, Zoological Society of San Diego, CA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 091
EPA-15080EHO05/69	1508	**Oil Dispersing Chemicals** BY M. Poliakoff, Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 188 207 $3.00
EPA-15080EIL12/69	1508	**Proceedings: Joint Conference on Prevention and Control of Oil Spills** American Petroleum Institute New York, NY Federal Water Quality Administration Washington, DC **ORDER FROM: NTIS-PB** 194 395 $3.00
EPA-15080EOS03/70	1508	**Preliminary Operations Planning Manual for the Restoration of Oil-Contaminated Beaches** URS Research Company San Mateo, CA **ORDER FROM: NTIS-PB** 191 711 $3.00

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EPA-15080EOS10/70-1	1508	**Evaluation of Selected Earthmoving Equipment for the Restoration of Oil-Contaminated Beaches** URS Research Company San Mateo, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 693
EPA-15080EPL04/70	1508	**Spreading and Movement of Oil Spills** BY H. G. Schwartzberg, New York University New York, NY **ORDER FROM: NTIS-PB** 192 852 $3.00
EPA-15080EUU10/70	1508	**Vortex Separation Process for Oil Spill Recovery Systems** American Process Equipment Corporation Panama City, FL **ORDER FROM: GPO** 60¢ **NTIS-PB** 201 656
EPA-15080FHS08/69	1508	**Cleaning Oil-Contaminated Beaches** Northeast Region Research and Development Program, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 189 172 $3.00
EPA-15080FHT12/69	1508	**Oil Sampling Techniques** Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 190 171 $3.00
EPA-15080FHU10/69	1508	**Biological Effects of Oil Pollution – Bibliography** Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 188 206 $3.00
EPA-15080FTU05/71	1508	**Oil Pollution Incident, Platform Charlie, Main Pass Block 41 Field, Louisiana** Alpine Geophysical Associates, Incorporated Norwood, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 497
EPA-15080FWN07/71	1508	**Recovery of Floating Oil Rotating Disk Type Skimmer** Susquehanna Corporation, Atlantic Research Systems Division Costa Mesa, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 205 208
EPA-15080FWO02/71	1508	**Floating Oil Recovery Devices** New Mexico State University Las Cruces, NM **ORDER FROM: GPO** $1.00
EPA-15080FWP04/71	1508	**Concept Development of a Hydraulic Skimmer System for Recovery of Floating Oil** Battelle Memorial Institute Richland, WA **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 498
EPA-15080HOL01/72	1508	**Feasibility Demonstration of an Aerial Surveillance Spill Prevention System** BY R. I. Welch, A. D. Marmelstein, and P. M. Maughan, Earth Satellite Corporation Washington, DC **ORDER FROM: GPO** $2.00 **NTIS-PB** 214 400
EPA-15090FOZ10/70	1509	**Control of Spillage of Hazardous Polluting Substances** Battelle Memorial Institute, Pacific Northwest Laboratories Richland, WA **ORDER FROM: GPO** $3.00 **NTIS-PB** 197 596
EPA-16010---10/67	1601	**Environmental Requirements of Blue-Green Algae (Proceedings of Symposium)** Washington, University of Seattle, WA Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 206 538 $3.00

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EPA-16010---10/69	1601	**Working Paper No. 66: Field Studies on Sediment – Water Algal Nutrient Interchange Processes and Water Quality of Upper Klamath and Agency Lakes** BY A. R. Gahler, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 207 643 $3.00
EPA-16010---10/69*	1601	**Plankton Community and Hydraulic Characterization Preliminary to Lake Flushing** Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 192 760 $3.00
EPA-16010---03/71	1601	**Demonstrating the Effects of Nutrients in Bio-oxidation Pond Receiving Streams** Oklahoma, University of Norman, OK **ORDER FROM: NTIS-PB** 199 269 $3.00
EPA-16010DDS03/70	1601	**Dynamics of the Nitrogen Cycle in Lakes** Alaska, University of College, AK **ORDER FROM: NTIS-PB** 203 791 $3.00
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EPA-16010DNY07/71	1601	**Eutrophication of Surface Waters – Lake Tahoe Indian Creek Reservoir** Lake Tahoe Area Council South Lake Tahoe, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 462
EPA-16010DON02/72	1601	**Eutrophication Factors in North Central Florida Lakes** BY H. D. Putnam, P. L. Brezonik, and E. E. Shannon, Florida, University of, Environmental Engineering Department Gainesville, FL **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 863
EPA-16010DOU06/70	1601	**Pharmacological Testing of Blue-Green Algae for Constituents Having Therapeutic Value** World Life Research Institute Colton, CA **ORDER FROM: GPO** 30¢ **NTIS-PB** 206 476
EPA-16010DQB10/71	1601	**Provisional Algal Assay Procedures** BY D. F. Toerien, California, University of Berkeley, CA **ORDER FROM: NTIS-PB** 206 140 $3.00
EPA-16010DSW05/71	1601	**Eutrophication of Surface Waters – Lake Tahoe** Lake Tahoe Area Council South Lake Tahoe, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 460
EPA-16010DXV11/71	1601	**Carbon Dioxide System and Eutrophication** BY S. D. Morton, P. H. Derse, and R. C. Sernau, Warf Institute, Incorporated Madison, WI **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 706
EPA-16010EHC12/71	1601	**Eutrophication in Coastal Waters: Nitrogen as a Controlling Factor** California, University of, Scripps Institute of Oceanography, San Diego La Jolla, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 710
EPA-16010EHR03/71	1601	**Chemical Investigation of Recent Lake Sediments from Wisconsin Lakes and Their Interpretation** BY G. C. Bortleson, Wisconsin, University of Madison, WI **ORDER FROM: GPO** $2.25 **NTIS-PB** 208 965
EPA-16010EHR08/71	1601	**Nutrient Sources for Algae and Their Control** BY G. P. Fitzgerald, Wisconsin, University of, Water Resources Center Madison, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 707

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EPA-16010EHR12/71	1601	**Problem Lakes in the United States** BY M. J. Ketelle, and P. D. Uttormark, Wisconsin, University of, Water Resources Center Madison, WI **ORDER FROM: GPO** $2.00 **NTIS-PB** 209 864
EPA-16010EHR03/72	1601	**Role of Bacteria in the Nitrogen Cycle in Lakes** BY E. F. McCoy, Wisconsin, University of Madison, WI **ORDER FROM: GPO** 35¢ **NTIS-PB** 211 461
EPA-16010EQA10/71	1601	**Dissolved and Particulate Organic Carbon in Some Colorado Waters** BY E. B. Reed, Colorado State University, Department of Zoology Fort Collins, CO **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 705
EPA-16010EXE12/71	1601	***Effects of Artificial Aeration on Lake Ecology*** BY A. W. Fast, Michigan State University East Lansing, MI **ORDER FROM: GPO** $4.25 **NTIS-PB** 210 704
EPA-16020---10/67	1602	**Iron-59 as a Solids Tracer in Aqueous Suspensions** BY M. R. Scalf, and C. P. Priesing, Robert S. Kerr Water Research Center, FWPCA Ada, OK **ORDER FROM: NTIS-PB** 205 827 $3.00
EPA-16020---07/71	1602	**Methods for Chemical Analysis of Water and Wastes, 1971** Analytical Quality Control Laboratory, EPA Cincinnati, OH **ORDER FROM: GPO** $3.00 **NTIS-PB** 211 968
EPA-16020DHV07/70	1602	**Aquatic Plant Chemistry. Its Application to Water Pollution Control** BY R. T. LaLonde, Syracuse University, State University College of Forestry at Syracuse, NY **ORDER FROM: NTIS-PB** 192 810 $3.00
EPA-16020DKW09/70	1602	**Chemical Characteristics of Organic Color in Water** Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 199 707 $3.00
EPA-16020EWC04/71	1602	**Catalog of Pesticide NMR Spectra** Southeast Water Laboratory, EPA Athens, GA **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 144
EPA-16020FEN03/71	1602	**Characterization and Separation of Secondary Effluent Components by Molecular Weight** BY A. D. Little, Arthur D. Little, Incorporated Cambridge, MA **ORDER FROM: GPO** 55¢ **NTIS-PB** 206 193
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EPA-16020FSO06/71	1602	**Design and Operation of an Information Center on Analytical Methodology** Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO** $1.25 **NTIS-PB** 204 820
EPA-16020GAG02/71	1602	**Sampling of Glacial Snow for Pesticide Analysis** BY T. R. Stengle, Massachusetts, University of Amherst, MA BY J. J. Lichtenberg, Analytical Quality Control Laboratory, EPA Cincinnati, OH BY C. S. Houston, Vermont, University of Burlington, VT **ORDER FROM: GPO** 35¢ **NTIS-PB** 212 727
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EPA-16020GFR07/71	1602	**Interaction of Nitrilotriacetic Acid With Suspended and Bottom Material** National Bureau of Standards Washington, DC **ORDER FROM: GPO** 45¢ **NTIS-PB** 225 023/AS
EPA-16020GLY05/71	1602	**Monitoring Mercury Vapor Near Pollution Sites** Environmental Measurements, Incorporated San Francisco, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 212 370
EPA-16030DNL01/72	1603	**Aquatic and Wetland Plants of Southwestern United States** BY D. Correll, Texas Research Foundation Renner, TX **ORDER FROM: NTIS-PB** 214 811 $1.45 microfiche
EPA-16030DQH11/70	1603	**Mayfly Distribution as a Water Quality Index** Winona State College Winona, MN **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 223
EPA-16040DGH08/71	1604	**Characterization of Taste and Odors in Water Supplies** BY R. P. Collins, Connecticut, University of Storrs, CT **ORDER FROM: GPO** 35¢ **NTIS-PB** 211 025
EPA-16040ELO06/70	1604	**Investigation of Means for Controlled Self-Destruction of Pesticides** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 198 224
EPA-16050---04/67	1605	**Components of Oxygenation of Flowing Streams** BY F. S. Stay Jr., W. R. Duffer, B. L. DePrater, and J. W. Keeley, Robert S. Kerr Water Research Center, FWPCA Ada, OK **ORDER FROM: NTIS-PB** 205 826 $3.00
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EPA-16050DJK08/70*	1605	**Dynamic Model Study of Lake Erie: Part II Analytical and Experimental Results** BY R. R. Rumer, New York, State University of Buffalo, NY **ORDER FROM: NTIS-PB** 195 545 $3.00
EPA-16050DOW10/71	1605	**Multidirectional Turbulence Probe Development – Phase I: Unidirection Turbulence Sensor Development** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO** 65¢ **NTIS-PB** 211 280
EPA-16050DXN07/70	1605	**Development of Immobilized Enzyme Systems for Enhancement of Biological Waste Treatment Processes** Grumman Aerospace Corporation Bethpage, NY **ORDER FROM: GPO** 70¢ **NTIS-PB** 203 598
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EPA-16050ERS08/71	1605	**Deposition of Fine Sediments in Turbulent Flows** BY E. Partheniades, and A. J. Mehta, Florida, University of, Department of Costal and Oceanographic Engineering Gainsville, FL **ORDER FROM: GPO** 50¢ **NTIS-PB** 213 043

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EPA-16050FGS07/70	1605	**Interrelation of Carbon and Phosphorus in Regulating Heterotrophic and Autotrophic Populations in Aquatic Ecosystems** BY P. Kerr, Southeast Water Laboratory, Federal Water Quality Administration Athens, GA **ORDER FROM: GPO** 60¢ **NTIS-PB** 195 195
EPA-16050FOR01/72	1605	**Symposium on Direct Tracer Measurement of the Reaeration Capacity of Streams and Estuaries** Georgia Institute of Technology Atlanta, GA Environmental Protection Agency Athens, GA **ORDER FROM: GPO** $1.00 **NTIS-PB** 218 478 $3.00
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EPA-16060DCO10/70	1606	**Potential Pollution of the Ogallala by Recharging Playa Lake Water – Pesticides** BY D. Wells, E. Huddleston, and R. Rekers, Texas Tech University Lubbock, TX **ORDER FROM: GPO** 40¢ **NTIS-PB** 208 813
EPA-16060DDZ07/71	1606	**Study of Reutilization of Wastewater Recycled Through Groundwater, Vol. I** BY D. F. Boen, J. H. Bunts Jr., and R. J. Currie, Eastern Municipal Water District Hemet, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 859
EPA-16060DDZ07/71*	1606	**Study of Reutilization of Wastewater Recycled Through Groundwater, Vol. II** BY D. F. Boen, J. H. Bunts Jr., and R. J. Currie, Eastern Municipal Water District Hemet, CA **ORDER FROM: GPO** $1.25
EPA-16060DLL09/70	1606	**Dispersion in Heterogeneous Nonuniform Anisotropic Porous Media** Purdue University Lafayette, IN **ORDER FROM: GPO** $1.00 **NTIS-PB** 200 258
EPA-16060DMP03/71	1606	**Interaction of Herbicides and Soil Micro-organisms** Boyce Thompson Institute for Plant Research, Incorporated Yonkers, NY **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 566
EPA-16060DOE04/72	1606	**Nitrate in the Unsaturated Zone Under Agricultural Lands** BY P. F. Pratt, California, University of Riverside, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 211 166
EPA-16060DRV03/72	1606	**Renovating Secondary Sewage by Ground Water Recharge with Infiltration Basins** BY H. Bouwer, R. C. Rice, E. D. Escarcega, and M. S. Riggs, Agriculture, Department of, U.S. Water Conservation Laboratory Phoenix, AZ Salt River Project Phoenix, AZ **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 164

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EPA-16060EGS01/71	1606	**Infiltration Rates and Groundwater Quality Beneath Cattle Feedlots, Texas High Plains** Texas Technical University Lubbock, TX **ORDER FROM: GPO** 65¢ **NTIS-PB** 203 681
EPA-16060ELJ03/72	1606	**Density Induced Mixing in Confined Aquifiers** BY L. W. Gelhar, J. S. Miller, J. L. Wilson, and J. M. Hamrick, Massachusetts Institute of Technology, Ralph M. Parsons Laboratory for Water Resources and Hydrodynamics Cambridge, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 298
EPA-16060ERU12/71	1606	**Ground Water Pollution in Arizona, California, Nevada, and Utah** BY D. K. Fuhriman, and J. R. Barton, Fuhriman, Barton and Associates Provo, UT **ORDER FROM: GPO** $2.00 **NTIS-PB** 211 145
EPA-16060GHR11/71	1606	**Investigations Concerning Probable Impact of Nitrilotriacetic Acid on Ground Water** BY R. L. Cosby, W. J. Dunlap, J. F. McNabb, B. E. Bledsoe, and M. R. Scalf, Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 60¢ **NTIS-PB** 208 433
EPA-16060GRB08/71	1606	**National Ground Water Quality Symposium** National Water Well Association Columbus, OH Environmental Protection Agency Ada, OK **ORDER FROM: GPO** $1.75 **NTIS-PB** 214 614
EPA-16060HIJ02/72	1606	**Evaluation of Salt Water Disposal Into Potential Ground-Water Resources** BY F. A. Norris, Oklahoma Corporation Commission Oklahoma City, OK **ORDER FROM: GPO** 35¢ **NTIS-PB** 210 852
EPA-16070---10/66	1607	**Environmental Factors in Coastal and Estuarine Waters, Bibliographic Series, Vol. I, Coast of Oregon** BY G. R. Ditsworth, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 202 878 $3.00
EPA-16070---09/67	1607	**Index to Research – Coastal and Estuarine Waters in the United States** BY G. R. Ditsworth, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 206 543 $3.00
EPA-16070---08/68	1607	**Environmental Factors in Coastal and Estuarine Waters, Bibliographic Series, Vol. II, Coast of Washington** BY G. R. Ditsworth, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 202 879 $3.00
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EPA-16070---03/70	1607	**Working Paper No. 70: Salinity Runoff and Wind Measurements, Yaquina Estuary, Oregon** BY R. J. Callaway, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 210 112 $4.50
EPA-16070---04/70	1607	**Working Paper No. 71: Design and Construction of a Saltwater Environment Simulator** BY W. A. DeBen, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 210 111 $4.00

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EPA-16070---07/70	1607	**Working Paper No. 78: Trace Materials in Wastes Disposal to Coastal Waters: Fates, Mechanisms, and Ecological Guidance and Control** BY M. H. Feldman, Pacific NOrthwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 202 346 $3.00
EPA-16070---09/70	1607	**Working Paper No. 76: Summary of the Oceanography and Surface Wind Structure of the Pacific Subarctic Region in Relation to Waste Releases at Sea** BY R. J. Callaway, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 204 739 $3.00
EPA-16070---10/70	1607	**Working Paper No. 77: The 50-Mile Ballast-Oil Dumping Prohibited Zone Off Alaska, Reconsidered in the Light of Available Data Gleaned from Significant Incidents** BY M. H. Feldman, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 204 740 $3.00
EPA-16070DBH11/69	1607	**Mathematical Model of the Columbia River from the Pacific Ocean to Bonneville Dam, Part I** BY R. J. Callaway, Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 202 422 $3.00
EPA-16070DBH04/70	1607	**Ocean Outfall Design: Part I – Literature Review and Theoretical Development** BY D. J. Baumgartner, and D. S. Trent, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 203 749 $3.00
EPA-16070DBH04/71	1607	**Mathematical Model of the Columbia River from the Pacific Ocean to Bonneville Dam, Part II** BY R. J. Callaway, Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 202 423 $3.00
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EPA-16070DUF11/70	1607	**Waste Management Concepts for the Coastal Zone** National Academy of Science, National Academy of Engineering Washington, DC **ORDER FROM: NTIS-PB** 195 861 $3.00
EPA-16070DZV02/71	1607	**Estuarine Modeling: An Assessment** BY G. H. Ward Jr., Tracor, Incorporated Austin, TX **ORDER FROM: NTIS-PB** 206 807 $9.75
EPA-16070EFG12/71	1607	**Limitations and Effects of Waste Disposal on an Ocean Shelf** Florida Ocean Sciences Institute Deerfield Beach, FL **ORDER FROM: GPO** $2.25 **NTIS-PB** 210 862
EPA-16070ENS06/71	1607	**Airphoto Analysis of Ocean Outfall Dispersion** Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 210 406 $17.75
EPA-16070EOI08/71	1607	**Industrial Wasteline Study – A Study for Controlled Ocean Disposal** BY D. Pindzola, C. T. Davey, and R. A. Erb, Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: NTIS-PB** 219 404 $3.00

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EPA-16070EOK07/71	1607	**Oceanography of the Nearshore Coastal Waters of the Pacific Northwest Relating to Possible Pollution, Vol. I** Oregon State University Corvallis, OR **ORDER FROM: GPO** $5.25 **NTIS-PB** 211 275
EPA-16070EOK07/71*	1607	**Oceanography of the Nearshore Coastal Waters of the Pacific Northwest Relating to Possible Pollution, Vol. II** Oregon State University Corvallis, OR **ORDER FROM: GPO** $6.00 **NTIS-PB** 211 276
EPA-16070FGY07/71	1607	**Barged Ocean Disposal of Wastes: A Review of Current Practice and Methods of Evaluation** BY B. D. Clark, W. F. Rittall, and D. J. Baumgartner, Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 204 868 $3.00
EPA-16070GHV05/71	1607	**Working Paper No. 80: User's Guide and Documentation for Outfall Plume Model** BY D. J. Baumgartner, Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: NTIS-PB** 204 577 $3.00
EPA-16080---00/68	1608	**Pilot Study of Dynamics of Reservoir Desatratification** BY W. R. Duffer, C. C. Harlin Jr., and L. E. Leach, Robert S. Kerr Water Research Center, FWPCA Ada, OK **ORDER FROM: NTIS-PB** 205 825 $3.00
EPA-16080---01/68	1608	**Agricultural Utilization of Sewage Effluent and Sludge: An Annotated Bibliography** BY J. P. Law, Robert S. Kerr Water Research Center, FWPCA Ada, OK **ORDER FROM: GPO** 45¢ **NTIS-PB** 205 028
EPA-16080---06/69	1608	**Hydraulic and Mixing Characteristics of Suction Manifolds** Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 190 800 $3.00
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EPA-16080---11/69	1608	**Nutrient Removal from Cannery Wastes by Spray Irrigation of Grassland** BY J. P. Law, Robert S. Kerr Water Research Center Ada, OK **ORDER FROM: NTIS-PB** 189 774 $3.00
EPA-16080---10/70	1608	**Induced Hypolimnion Aeration for Water Quality Improvement of Power Releases** BY L. E. Leach, Robert S. Kerr Water Research Center Ada, OK **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 226
EPA-16080---11/70	1608	**Induced Aeration of Small Mountain Lakes** Robert S. Kerr Water Research Center Ada, OK **ORDER FROM: GPO** 65¢
EPA-16080DFO01/71	1608	**Water Quality Control Through Flow Augmentation** Heidelberg College Tiffin, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 473
EPA-16080DOO07/70	1608	**Optimum Mechanical Aeration Systems for Rivers and Ponds** Littleton Research and Engineering Corporation Littleton, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 218

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EPA-16080DUP12/70	1608	**Oxygen Regeneration of Polluted Rivers: The Delaware River** Rutgers University New Brunswick, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 649
EPA-16080DVF12/70	1608	**Development of Phosphate-free Home Laundry Detergent** IIT Research Institute Chicago, IL **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 222
EPA-16080DVF02/72	1608	**Technical Evaluation of Phosphate-free Home Laundry Detergents** BY H. G. Reilich, IIT Research Institute Chicago, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 410
EPA-16080DWP11/70	1608	**Induced Air Mixing of Large Bodies of Polluted Water** University of Maine Orono, ME **ORDER FROM: GPO** 60¢ **NTIS-PB** 198 220
EPA-16080FSN10/71	1608	**Engineering Methodology for River and Stream Reaeration** JBF Scientific Corporation Burlington, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 818
EPA-16080FYA03/71	1608	**Oxygen Regeneration of Polluted Rivers: The Passaic River** Rutgers University New Brunswick, NJ **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 190
EPA-16080GGH08/71	1608	**Changes in Water Quality Resulting From Impoundment** BY W. R. Duffer, and C. C. Harlin Jr., Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 159
EPA-16080GGP07/71	1608	**Effects of Feedlot Runoff on Water Quality of Impoundments** BY W. R. Duffer, R. D. Kreis, and C. C. Harlin Jr., Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 65¢ **NTIS-PB** 211 124
EPA-16080GPF03/71	1608	**Corrosion Potential of NTA in Detergent Formulations** Battelle Columbus Laboratory Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 212 393
EPA-16080GWF02/72	1608	**Soil Systems for Municipal Effluents — A Workshop and Selected References** BY R. H. Ramsey, C. R. Wetherill, and H. C. Duffer, East Central State College Ada, OK **ORDER FROM: GPO** 65¢
EPA-16080HTD03/72	1608	**Mercury Pollution Control in Stream and Lake Sediments** BY J. D. Suggs, D. H. Peterson, and J. B. Middlebrook Jr., Advanced Technology Center, Incorporated Dallas, TX **ORDER FROM: GPO** 50¢ **NTIS-PB** 211 250
EPA-16080HTZ05/72	1608	**Polymer Film Overlay System for Mercury Contaminated Sludge - Phase I** BY M. M. Epstein, and M. U. Widman, Battelle Columbus Laboratory Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 688
EPA-16080HUB04/72	1608	**Waste Wool as a Scavenger for Mercury Pollution in Waters** BY J. P. Tratnyek, Arthur D. Little, Incorporated Cambridge, MA **ORDER FROM: GPO** 60¢ **NTIS-PB** 211 128

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EPA-16080HVA01/72	1608	**Sand and Gravel Overlay for Control of Mercury in Sediments** BY L. H. Bongers, and M. N. Khattak, Martin Marietta Corporation, Research Institute for Advanced Studies Baltimore, MD **ORDER FROM: GPO** 55¢ **NTIS-PB** 211 165
EPA-16090---07/69	1609	**Use of Mathematical Models in Water Quality Control Studies** Northeastern University Boston, MA **ORDER FROM: NTIS-PB** 189 494 $3.00
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EPA-16090DBX04/70	1609	**Evaluation of Dispersed Pollutional Loads from Urban Areas** Oklahoma, University of Norman, OK **ORDER FROM: NTIS-PB** 203 746 $3.00
EPA-16090DCL05/70	1609	**Delaware Estuary and Bay Water Quality Sampling and Mathematical Model Project** Delaware River Basin Commission Trenton, NJ **ORDER FROM: NTIS-PB** 193 799 $3.00
EPA-16090DEA12/69	1609	**Complementary-Competitive Aspects of Water Storage** Sacramento State College Foundation Sacramento, CA **ORDER FROM: NTIS-PB** 190 197 $3.00
EPA-16090DLU11/69	1609	**Economic Evaluation of Water Quality** California, University of Berkeley, CA **ORDER FROM: NTIS-PB** 189 169 $3.00
EPA-16090DQZ06/71	1609	**Research Supplement to Journal Water Pollution Control Federation** Water Pollution Control Federation Washington, DC **ORDER FROM: GPO** 45¢ **NTIS-PB** 213 041
EPA-16090DRM09/69	1609	**Model for Quantifying Flow Augmentation Benefits** Florida, University of Gainesville, FL **ORDER FROM: NTIS-PB** 188 208 $3.00
EPA-16090DUH02/71	1609	**Stochastic Modeling for Water Quality Management** Stochastics, Incorporated Blacksburg, VA **ORDER FROM: GPO** $3.00 **NTIS-PB** 203 427
EPA-16090DVU07/70	1609	**Computer Simulation of the Hydrologic-Salinity Flow System Within the Upper Colorado River Basin** Utah State University Logan, UT **ORDER FROM: NTIS-PB** 203 674 $3.00
EPA-16090DWR06/70	1609	**Development of a Hydro-Quality Simulation Model** Utah State University, Utah Research Laboratory Logan, UT **ORDER FROM: NTIS-PB** 194 065 $3.00
EPA-16090FPW03/70	1609	**Legal Aspects of Water Storage for Flow Augmentation** Virginia Polytechnic Institute Blacksburg, VA **ORDER FROM: GPO** $1.75 **NTIS-PB** 195 170
EPA-16100---06/70	1610	**Biological Waste Treatment in the Far North** Alaska Water Laboratory, Federal Water Quality Administration College, AK **ORDER FROM: NTIS-PB** 195 673 $3.00
EPA-16100---10/70	1610	**Chena River – A Study of a Subarctic Stream** Alaska Water Laboratory, Federal Water Quality Administration College, AK **ORDER FROM: NTIS-PB** 197 857 $3.00
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EPA-16100GOI09/71	1610	**Environmental Guidelines for Road Construction in Alaska** BY F. B. Lotspeich, Alaska Water Laboratory, EPA College, AK **ORDER FROM: NTIS-PB** 206 155 $3.00
EPA-16110DAJ12/70	1611	**Benefits of Water Quality Enhancement** Syracuse University Syracuse, NY **ORDER FROM: GPO** $1.75 **NTIS-PB** 207 358
EPA-16110DTF02/71	1611	**Economics of Water Supply and Quality** Harvard University Cambridge, MA **ORDER FROM: GPO** 50¢ **NTIS-PB** 202 698
EPA-16110EAX02/72	1611	**Basin Management for Water Reuse** Alamo Area Council of Governments San Antonio, TX **ORDER FROM: GPO** $2.25 **NTIS-PB** 209 932
EPA-16110EGQ04/72	1611	**Extensions of Mathematical Programming for Regional Water Quality Management** California, University of Los Angeles, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 212 008
EPA-16110EXW06/71	1611	**Factors Affecting Pollution Referenda** ABT Associates, Incorporated Cambridge, MA **ORDER FROM: GPO** $2.50 **NTIS-PB** 207 350
EPA-16110FIO01/72	1611	**Use of General Equilibrium in Regional Water Resource Planning** Georgetown University Washington, DC **ORDER FROM: GPO** $1.50 **NTIS-PB** 209 893
EPA-16110FPP11/71	1611	**Interstate Planning for Regional Water Supply and Pollution Control** Delaware River Basin Commission Trenton, NJ **ORDER FROM: GPO** $3.00 **NTIS-PB** 229 573/AS
EPA-16110FPX08/70	1611	**Mathematical Programming for Regional Water Quality Management** California, University of Los Angeles, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 195 830
EPA-16110FRU12/71-01	1611	**River Basin Model: An Overview** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 409
EPA-16110FRU12/71-10	1611	**River Basin Model: Highway Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 411
EPA-16110FRU12/71-11	1611	**River Basin Model: Planning and Zoning Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 146
EPA-16110FRU12/71-12	1611	**River Basin Model: Computer Output** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $2.00 **NTIS-PB** 210 703
EPA-16110FRU12/71-13	1611	**River Basin Model: The Social Science Laboratory** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $2.00 **NTIS-PB** 213 657
EPA-16110FRU12/71-14	1611	**River Basin Model: The Transportation Sector** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 147
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EPA-16110FRU12/71-05	1611	**River Basin Model: Chairman and Council** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 70¢ **NTIS-PB** 212 007
EPA-16110FRU12/71-06	1611	**River Basin Model: Assessment Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 143
EPA-16110FRU12/71-07	1611	**River Basin Model: School Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 859
EPA-16110FRU12/71-08	1611	**River Basin Model: Municipal Services Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 799
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EPA-16110FZE09/70	1611	**Use of New Analytical Methods in Water Resource Development** Texas, University of Austin, TX **ORDER FROM: NTIS-PB** 195 829 $3.00
EPA-16110GNT02/72	1611	**Development of a State Effluent Charge System** Vermont Department of Water Resources, Agency of Environmental Conservation Montpelier, VT **ORDER FROM: NTIS-PB** 210 711 $7.50
EPA-16130---09/68	1613	**Industrial Waste Guide on Thermal Pollution** Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 197 262 $3.00
EPA-16130---12/68	1613	**Experimental Study of Warm Water Flow Into Impoundments – Part I** Minnesota, University of, St. Anthony Falls Hydraulic Laboratory Minneapolis, MN **ORDER FROM: NTIS-PB** 188 512 $3.00
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EPA-16130---09/69	1613	**Working Paper No. 67: Economic Aspects of Thermal Pollution Control in the Electric Power Industry** BY A. G. Christianson, and B. A. Tichenor, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 434 $3.00
EPA-16130---04/70	1613	**Guidelines: Biological Surveys at Proposed Heat Discharge Sites** BY R. D. Harkins, Robert S. Kerr Water Research Center, Federal Water Quality Administrati Ada, OK

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EPA-16130---10/70	1613	**Thermoelectric Generators Powered by Thermal Waste from Electric Power Plants** BY M. A. Shirazi, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: GPO** 45¢ **NTIS-PB** 207 870
EPA-16130DFX05/70	1613	**Engineering-Economic Study of Cooling Pond Performance** Littleton Research and Engineering Corporation Littleton, MA **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 817
EPA-16130DHS07/69	1613	***Survey of Alternate Methods for Cooling Condenser Discharge Water – Large Scale Heat Rejection Equipment*** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 036
EPA-16130DHS08/70	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – Operating Characteristics and Design Criteria** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 035
EPA-16130DHS11/70	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – Total Community Considerations in the Utilization of Rejected Heat** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 816
EPA-16130DHS01/71	1613	**Survey of Alternate Methods for Cooling Condenser Discharge Water – System Selection, Design and Optimization** Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 212 392
EPA-16130DJH01/71	1613	**Predictive Model for Thermal Stratification and Water Quality in Reservoirs** Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: GPO** $2.00 **NTIS-PB** 211 621
EPA-16130DJH04/71	1613	**Temperature Prediction in Stratified Water: Mathematical Model – User's Manual** Massachusetts Institute of Technology, Ralph M. Parsons Laboratory Cambridge, MA **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 701
EPA-16130DJU02/71	1613	**Analytical and Experimental Investigation of Surface Discharge of Heated Water** Massachusetts Institute of Technology Cambridge, MA **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 134
EPA-16130DNE03/71	1613	**Advanced Nonthermally Polluting Gas Turbines in Utility Application** United Aircraft Corporation East Hartford, CT **ORDER FROM: GPO** $2.00 **NTIS-PB** 211 283
EPA-16130DNH01/71	1613	**Potential Environmental Modifications Produced by Large Evaporative Cooling Towers** E G and G, Incorporated Boulder, CO **ORDER FROM: GPO** 75¢ **NTIS-PB** 210 702
EPA-16130DPU02/71	1613	**Research on the Physical Aspects of Thermal Pollution** Cornell Aeronautical Laboratory, Incorporated Buffalo, NY **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 124

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EPA-16130DWO10/70	1613	**Mathematical Models for the Prediction of Temperature Distributions Resulting from the Discharge of Heated Water into Large Bodies of Water** Tetra Technology, Incorporated Pasadena, CA **ORDER FROM: GPO** $1.75 **NTIS-PB** 208 034
EPA-16130EES11/70	1613	**Research on Dry-Type Cooling Towers for Thermal Electric Generation, Part I** R. W. Beck and Associates Denver, CO **ORDER FROM: GPO** $2.50 **NTIS-PB** 206 954
EPA-16130EES11/70*	1613	**Research on Dry-Type Cooling Towers for Thermal Electric Generation, Part II** R. W. Beck and Associates Denver, CO **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 778
EPA-16130ENT12/69	1613	**Thermal Pollution: Status of the Art** Vanderbilt University Nashville, TN **ORDER FROM:** (Vanderbilt – $4.00)
EPA-16130EXT12/69	1613	**Mathematical Models for the Prediction of Thermal Energy Change in Impoundments** Water Resources Engineers Incorporated Walnut Creek, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 210 126
EPA-16130FDQ03/71	1613	**Effect of Geographical Location on Cooling Pond Requirements and Performance** Vanderbilt University Nashville, TN **ORDER FROM: GPO** $2.00 **NTIS-PB** 208 031
EPA-16130FDQ03/71*	1613	**Heated Surface Jet Discharged into a Flowing Ambient Stream** BY L. H. Motz, and B. A. Benedict, Vanderbilt University Nashville, TN **ORDER FROM: GPO** $1.75 **NTIS-PB** 211 284
EPA-16130FHJ09/70	1613	**Beneficial Uses of Waste Heat – An Evaluation** Northwest Water Research Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 201 724 $3.00
EPA-16130FSU12/71	1613	**Surface Discharge of Heated Water** BY H. Stefan, N. Hayakawa, and F. R. Schiebe, Minnesota, University of, St. Anthony Falls Hydraulic Laboratory Minneapolis, MN **ORDER FROM: GPO** $2.00 **NTIS-PB** 211 285
EPA-16130GFI06/71	1613	**Potential Environmental Effects of an Offshore Submerged Nuclear Power Plant, Vol. I** General Dynamics, Electric Boat Division Groton, CT **ORDER FROM: GPO** $2.50 **NTIS-PB** 208 281
EPA-16130GFI06/71*	1613	**Potential Environmental Effects of an Offshore Submerged Nuclear Power Plant, Vol. II** General Dynamics, Electric Boat Division Groton, CT **ORDER FROM: GPO** $2.50 **NTIS-PB** 208 282
EPA-16130GKF12/70	1613	**Method for Predicting the Performance of Natural Draft Cooling Towers** Pacific Northwest Water Laboratory, EPA Corvallis, OR **ORDER FROM: GPO** 70¢ **NTIS-PB** 210 125
EPA-16130GNK10/71	1613	**Development and Demonstration of Low-Level Drift Instrumentation** Environmental Systems Corporation Knoxville, TN **ORDER FROM: NTIS-PB** 210 759 $5.00
EPA-17010---10/68	1701	**Dilute Solution Reactions of the Nitrate Ion as Applied to Water Reclamation** Rocketdyne, Division of North American Rockwell Corporation Canoga Park, CA **ORDER FROM: NTIS-PB** 190 195 $3.00

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EPA-17010---01/70	1701	**Treatment Techniques for Removing Phosphorus from Municipal Wastewate** BY J. J. Convery, Advanced Waste Treatment Research Laboratory, Federal Water Quality Administration Cincinnati, OH **ORDER FROM: GPO** 50¢ **NTIS-PB** 199 072
EPA-17010---02/70	1701	**Electrochemical Method for Removal of Phosphates from Wastewater** Dynatech Corporation Cambridge, MA **ORDER FROM: GPO** 50¢ **NTIS-PB** 217 673
EPA-17010---10/70	1701	**Nitrogen Removal from Wastewaters** Advanced Waste Treatment Laboratory, Federal Water Quality Administration Cincinnati, OH **ORDER FROM: NTIS-PB** 212 280 $3.00
EPA-17010DBL12/70	1701	**Colloid Flotation and Adsorbing Colloid Flotation** Northeastern University Boston, MA **ORDER FROM: NTIS-PB** 205 001 $3.00
EPA-17010DDQ11/71	1701	**Mechanisms of Biological Luxury Phosphate Uptake** Arizona, University of, Department of Microbiology and Medical Technology Tucson, AZ **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 465
EPA-17010DFV09/70	1701	**Phosphate Study at the Baltimore Back River Wastewater Treatment Plan** Baltimore, City of Baltimore, MD **ORDER FROM: GPO** $1.50 **NTIS-PB** 199 363
EPA-17010DHK08/69	1701	**Chemical Exfoliated Vermiculite for Removal of Phosphate from Wastewaters** BY J. Block, W. R. Grace and Company Clarksville, MD **ORDER FROM: GPO** 50¢ **NTIS-PB** 196 740
EPA-17010DHT09/70	1701	**Methanol Requirement and Temperature Effects in Wastewater Denitrification** Gulf South Research Institute New Iberia, LA **ORDER FROM: GPO** 50¢ **NTIS-PB** 198 221
EPA-17010DJA11/70	1701	**Investigation of a New Phosphate Removal Process** Envirogenics Company El Monte, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 069
EPA-17010DRD07/70	1701	**Study of Nitrification and Denitrification** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 658
EPA-17010DXD08/70	1701	**Phosphorus Removal by an Activated Sludge Plant** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** $1.00
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EPA-17010EAP10/70	1701	**Feasibility of Liquid Ion Exchange for Extracting Phosphate from Wastewater** General Mills Chemicals, Incorporated Minneapolis, MN **ORDER FROM: GPO** 50¢ **NTIS-PB** 205 360
EPA-17010ECZ03/69	1701	**Ammonia Removal from Agricultural Runoff and Secondary Effluents by Selected Ion Exchange** Battelle Memorial Institute Richland, WA **ORDER FROM: NTIS-PB** 187 759 $3.00

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EPA-17010EDO06/70	1701	**Phosphorus Removal Using Chemical Coagulation and a Continuous Countercurrent Filtration Process** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** 65¢ **NTIS-PB** 196 734
EPA-17010EED07/70	1701	**Electro-Oxidation of Ammonia in Sewage to Nitrogen** Ionics, Incorporated Watertown, MA **ORDER FROM: GPO** 55¢ **NTIS-PB** 204 526
EPA-17010EER06/70	1701	**Mobile Pilot Plant for Removal of Phosphate from Wastewaters by Adsorption on Alumina** Battelle Institute Richland, WA **ORDER FROM: NTIS-PB** 212 374 $3.00
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EPA-17010EFX04/70	1701	**Phosphate Removal from Wastewaters Using Lanthanum Precipitation** Atomics International, Division of North American Rockwell Corporation Canoga Park, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 196 738
EPA-17010EIP05/71	1701	**Soluble Phosphorus Removal in the Activated Sludge Process, Part I: Chemical-Biological Process Performance** Soap and Detergent Association New York, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 563
EPA-17010EIP10/71	1701	**Soluble Phosphorus Removal in the Activated Sludge Process, Part II: Sludge Digestion Study** Soap and Detergent Association New York, NY **ORDER FROM: GPO** 65¢ **NTIS-PB** 211 564
EPA-17010EKI04/70	1701	**Kinetics and Mechanism of Precipitation and Nature of the Precipitate Obtained in Phosphate Removal from Wastewater Using Aluminum (III) and Iron (III) Salts** Atomics International, Division of North American Rockwell Corporation Canoga Park, MA **ORDER FROM: GPO** 75¢ **NTIS-PB** 196 737
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EPA-17010ELQ08/71	1701	**Advanced Wastewater Treatment as Practiced at South Tahoe** South Tahoe Public Utility District South Lake Tahoe, CA **ORDER FROM: GPO** $3.25 **NTIS-PB** 204 525
EPA-17010EVB11/70	1701	**Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams** Engineering-Science, Incorporated Oakland, CA **ORDER FROM: GPO** 35¢
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EPA-17010FKF12/69	1701	**Basic Salinogen Ion-Exchange Resin for Selected Nitrate Removal from Potable and Effluent Waters** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 196 735
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EPA-17020---12/68	1702	**Investigation of Light-Catalyzed Chlorine Oxidation for Treatment of Wastewater** Midwest Research Institute Kansas City, MO **ORDER FROM: NTIS-PB** 187 757 $3.00
EPA-17020---12/68*	1702	**Comparison of Expanded-Bed and Packed-Bed Adsorption Systems** FMC Corporation Santa Clara, CA **ORDER FROM: NTIS-PB** 187 756 $3.00
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EPA-17020---02/70	1702	**Soil Filter: A Treatment Process for Removal of Odorous Gases** Washington, University of Seattle, WA **ORDER FROM: NTIS-PB** 202 580 $3.00
EPA-17020---06/70	1702	**Effect of Surface Groups on Adsorption of Pollutants** Lehigh University Bethlehem, PA **ORDER FROM: GPO** 40¢ **NTIS-PB** 198 519
EPA-17020DAO02/69	1702	**Regeneration of Spent Granular Activated Carbon** MSA Research Corporation Evans City, PA **ORDER FROM: NTIS-PB** 189 955 $3.00
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EPA-17020DHR12/70	1702	**Use of Improved Membranes in Tertiary Treatment by Reverse Osmosis** McDonnell Douglas Corporation Newport Beach, CA **ORDER FROM: NTIS-PB** 203 206 $3.00
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EPA-17020DUE09/70	1702	**Light-Catalyzed Chlorine Oxidation for Treatment of Wastewater** Midwest Research Institute Kansas City, MO **ORDER FROM: GPO** $1.00 **NTIS-PB** 202 230
EPA-17020DVJ05/69	1702	**Appraisal of Granular Carbon Contacting; Phase I and II** Swindell-Dressler Company Pittsburgh, PA **ORDER FROM: NTIS-PB** 190 168 $3.00
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EPA-17020DZO11/70	1702	**Carbon Column Operation in Waste Water Treatment** Syracuse University Syracuse, NY **ORDER FROM: NTIS-PB** 202 579 $3.00
EPA-17020ECI11/71	1702	**Feasibility Studies of Applications of Catalytic Oxidation in Wastewater** Illinois University, Southern Carbondale, IL **ORDER FROM: GPO** 75¢ **NTIS-PB** 208 348
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