EPA-600/9-74-002
March 1975

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U. S. Environmental Protection Agency
Washington, D.C. 20460

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EPA-600/9-74-002
March 1975

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OF
OFFICE OF RESEARCH AND DEVELOPMENT REPORTS
UPDATED TO JANUARY 1975

by

PUBLICATIONS STAFF
Office of Program Management

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

ATTENTION

This "Indexed Bibliography of ORD Reports—Updated to January 1975" lists all U.S. Environmental Protection Agency's Office of Research and Development Reports. In the future, supplementary bibliographies entitled "ORD Publications Summary" will be published quarterly.

The "ORD Publications Summary" will contain reports printed during the preceding 18 months; the first issue (which should be available in May 1975) will contain all report numbers assigned from July 1973 to the date of publication.

Each ORD Publication Summary will contain indices and a bibliography section as well as abstracts of new reports soon to be available. Each report abstract will appear only once, but the Bibliographic Section and indices will be cumulative. All names presently on the mailing list receiving this Indexed Bibliography will receive copies of the new publication "ORD Publications Summary."

SEE INSIDE OF FRONT COVER FOR "HOW TO ORDER" REPORTS

FOREWORD

This Office of Research and Development's (ORD's) bibliography of published reports is intended to provide a complete, current listing of ORD's final reports on in-house, grant, contract, and interagency projects. Reports have been indexed by Title, Program Area (subject), Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. Comments on how this Bibliography would serve the reader more effectively would be appreciated.

Wilson K. Talley
Assistant Administrator for
Research and Development

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SERIES DESCRIPTION

The U.S. Environmental Protection Agency (EPA) was formed in late 1970 from programs in several executive agencies, i.e., the Department of Health, Education, and Welfare (air pollution, solid waste, radiation, water hygiene, and noise), the Department of the Interior (water pollution), and the Department of Agriculture (pesticide regulation).

In July 1972, EPA's Office of Research and Monitoring (now Office of Research and Development, ORD) established an office-wide series of designations within which each research report would be published. The series can be used to describe the general thrust of EPA research and development and also to aid in identifying the use for each report. The present numbering system and cover color for each report is keyed to this Series Description. In addition, ORD's research program has been categorized into 10 major Program Areas that serve to identify subject matter: these are described beginning on page vii.

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

Assigned to Series 1 are projects and studies relating to the tolerances of man for unhealthful substances or conditions, generally assessed from a medical viewpoint. In addition to toxicology and other medical specialties, study areas include physiological or psychological studies, and biomedical instrumentation and health research techniques utilizing animals—but always with intended application to human health protection.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

Within Series 2 is research performed to develop and demonstrate instrumentation, equipment, and methodology to repair or prevent environmental degradation from point and nonpoint sources of pollution. This work provides the new or improved technology necessary to control and treat pollution sources so that environmental quality standards can be met.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

In Series 3 are grouped the investigations on pollution effects on plant and animal species and on materials. Problems are assessed for their long- and short-term influences and studies include formation, transport, and pathway studies to determine the fate of pollutants and their effects. This work provides the basis for setting standards to minimize undesirable changes in living organisms in the aquatic, terrestrial, and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (gray covers)

Research conducted to develop new or improved methods and instrumentation for identifying and quantifying environmental pollutants is found in Series 4. Also included are studies to determine the ambient concentrations of pollutants in the environment, or the variance of pollutants as a function of time or meteorological factors, or both.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

Included in Series 5 is research devoted to the socioeconomic impact of environmental problems, i.e., recycling and other recovery operations whose emphasis is on monetary incentives and nonscientific realms of legal systems, cultural values, and business systems. Because the interdisciplinary scope of system evaluations and environmental management, these reports are included in Series 5.

SERIES 6 – SCIENTIFIC AND TECHNICAL ASSESSMENT REPORTS (STAR) (dark blue covers)

In Series 6 are assessments of the available scientific and technical knowledge on major pollutants that would be helpful in regulatory decision making or assessments of a major area of completed study. The series is used to present objective evaluations of existing knowledge— evaluations that point out the extent to which it is definitive, the validity of the data on which it is based, and the uncertainties and gaps that may exist. (Most of the reports are multimedia in scope and focus on single media only to the extent warranted.)

SERIES 9 – MISCELLANEOUS (covers of various designs)

Series 9 is used for all reports issued by ORD not applicable to one of the series described above.

USERS' GUIDE

This volume contains a bibliographic section and six indices. Within each index, reports are cross-referenced to the Bibliographic Section by report number.

BIBLIOGRAPHIC SECTION

In the Bibliographic Section is a listing of reports published by EPA from its inception through December 1974. During this time, three different numbering systems have been used to identify reports; they appear as:

Report	Covering Period	Pages
600 Reports (e.g., EPA-670/2–74–006)	July 1973 to present	1–64
R Reports (e.g., EPA-R2–72–007a)	July 1972 to July 1973	64–97
WPCR Series Reports (e.g., 11010EGO01/71)	Before July 1972	97–137

The source of each report follows the bibliographic entry, and how to order instructions are given on the inside front cover.

In the 600 Series, the major ORD organizations (Headquarters; Washington Environmental Research Center (WERC); and National Environmental Research Centers (NERC) responsible for preparing the report can be identified:

600 = ORD Headquarters, RD-674 (Washington, DC 20460; 202/426–2175)
and WERC (Washington, DC 20460; 703/557–7484)
650 = NERC-RTP (Research Triangle Park, NC 27711; 919/549–8411)
660 = NERC-Corvallis (Corvallis, OR 97330; 503/752–4211, X. 440)
670 = NERC-Cincinnati (Cincinnati, OH 45268; 513/684–8258)
680 = NERC-Las Vegas (PO Box 15027, Las Vegas, NV 89114; 702/736–2969)

TITLE INDEX

All reports are listed alphabetically by title; "A," "An," and "The" have been dropped from the beginnings of titles.

PROGRAM AREA INDEX

This Program Area Index provides a broad subject-matter index; each report is listed once, alphabetically by title, under the Program Area concerned with the report's research. These Program Areas contain sub-areas called Program Elements; these are the numbers appearing in the second column of the Bibliographic Section (e.g., 1BB037 or 1101). Reports not falling within these Program Areas, such as bibliographies or annual reports, are listed under Miscellaneous Reports.

The objectives and responsibilities within each of the 10 Program Areas are:

HEALTH EFFECTS—assessing health hazards associated with environmental pollution from a number of media and categories including air, water, pesticides, radiation, and noise. Major program emphasis is devoted to evaluating, through community epidemiologic studies, the effects of exposure to common pollutants on sensitive health indicators and to assessing at the community level, the effects of pollutants on human physiology.

USERS'GUIDE

ECOLOGICAL PROCESSES AND EFFECTS-determining the effects of air and water pollutants on the structure and function of ecosystems and on biotic and abiotic subcomponents of these ecosystems. Programs on aquatic systems determine the acute and chronic effects of pollutants (e.g., temperature, pesticides, heavy metals) on life stages of fresh and marine water fish, invertebrates, and their food-chain organisms. Specific air pollutant studies include the effects of nitrogen oxides, sulfur oxides, hydrocarbons, and oxidants on representative terrestrial ecosystems. Also included are studies seeking alternative methods of pest control that have great specificity on target organisms and little or no effects on nontarget organisms.

MUNICIPAL POLLUTION CONTROL-developing and demonstrating technology applicable to controlling and treating wastewaters generated in and discharged from the urban environment. The entire urban drainage system is included, from sewer systems carrying stormwater and sewage (combined sewers) and from urban stormwater discharges.

INDUSTRIAL POLLUTION CONTROL-demonstrating the best practicable, best available, and zero pollution control technology (with emphasis on water reuse and product-by-product recovery) for manufacturing industries defined by the Standard Industrial Classification, Major Groups 19-39.

NONPOINT POLLUTION CONTROL-developing means to (1) predict and assess the impact of pollutants from nonpoint sources on waters from various land-use patterns; (2) determine the reduced pollutant load that results from implementing specific nonpoint source controls and the costs of achieving these reductions to meet established water quality standards; (3) establish limits of reasonable controllability for nonpoint sources; and (4) establish specific control guidelines for nonpoint sources.

Specific objectives include developing cost-effective, nonpoint management systems (with alternatives appropriate for various geographical and geological areas) for activities in: agriculture including forestry and logging operations; agricultural runoff; irrigation return flows; confined animal feeding; aquaculture and disposal of nonagricultural sludges; active mining operations and abandoned mining sites; hydrological modifications; and oil and hazardous material spills.

AIR POLLUTION CONTROL-ensuring the availability of control devices, processes, and approaches for control of air pollutants at their source. Currently, activity is in research and development of control technology in four principal areas: (1) sulfur oxides— historically, emissions from electric power generating plants; recently, from industrial combustion and process sources; (2) nitrogen oxides—in the area of combustion control and nitrogen oxide effluent treatment processes; (3) particulates—the need for fine particulate control technology and more economic conventional technologies; and (4) hazardous and other pollutants—those not included in the above three categories.

DATA AND INFORMATION RESEARCH-planning, coordinating, establishing, reviewing, and assessing research; and developing and demonstrating programs aimed at effective research information and data systems, including multimedia or multipollutant data analysis and special data handling and processing studies.

EQUIPMENT AND TECHNIQUES-developing methods and instrumentation for the detection, identification, and quantification of pollutants in all media at the lowest significant concentration. Included are state-of-the-art reviews, prototype instrumentation development, and pioneering research studies related to developing new or significantly improved analytical methods or instrumentation.

QUALITY ASSURANCE-planning, establishing, and coordinating an Agency-wide standardization and quality control program to ensure that environmental data produced by Federal, State, and local agencies are compatible, accurate, and legally defensible; and ensuring the selecting, standardizing, and publishing of procedures and methods for sampling and analyzing environmental pollutants.

SOCIOECONOMIC RESEARCH-developing and demonstrating analytical and management techniques required to implement Agency programs at the national, regional, and local levels. Interdisciplinary research is focused on the analysis of three general areas: (1) ecological impact—effects of various environmental policies and development of comprehensive environmental planning and management capability; (2) resources—economic aspects of environmental actions including cost-benefit, cost-risk benefit, and trade-off analysis; and (3) implementation and methods—developing forecasting capability to anticipate long-range impact of human and institutional activities on the environment.

PERFORMING ORGANIZATION INDEX

This is an alphabetical listing of the organizations that actually conduct ORD research projects. For grants or contracts, the organization is the grantee or contractor; for in-house reports, the organization is the EPA laboratory or office.

PERSONAL AUTHOR INDEX

The Personal Author Index lists alphabetically all authors of reports contained in the Bibliographic Section.

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER INDEX

This index contains a listing of ORD Contract, Grant, and Interagency Agreement numbers for which a final report has been produced. For each number listed the applicable report number is cross-referenced.

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600/2–73–001		**(No. Cancelled) ORDER FROM:** (No. Cancelled)
600/2–73–002	1BB034	**Portable Device for Measuring Wastewater Flow in Sewers** BY M. A. Nawrocki, Hittman Associates, Incorporated Columbus, MD **ORDER FROM: GPO-**EP1.23/2:600/2–73–002 $1.00 **NTIS-PB** 233 142
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600/2–74–007	1BB036	**Development of a Monthly Industrial Technology Bulletin** BY J. S. Murphy, and D. A. Sandoski, Franklin Institute Research Laboratory Philadelphia, PA **ORDER FROM:** Pending

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600/2–74–008	1AB015	**Proceedings, Symposium Control of Fine-Particulate Emissions from Industrial Sources, January 15–18, 1974 San Francisco, CA** Air Pollution Control Division, ORD, EPA Washington, DC **ORDER FROM: NTIS-PB** 235 829 $13.00
600/2–74–009a	1BB036	**Effluents of the Inorganic Pesticide Industry** BY J. Patterson, Illinois Institute of Technology Chicago, IL **ORDER FROM:** Pending
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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
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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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
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
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
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
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
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
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
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
11020---06/69	1102	**Reduction in Infiltration by Zone Pumping** Hoffman and Fiske Lewiston, ID **ORDER FROM: NTIS-PB** 187 868 $3.00
11020---10/69	1102	**Crazed Resin Filtration of Combined Sewer Overflows** Hercules, Incorporated Wilmington, DE **ORDER FROM: NTIS-PB** 187 867 $3.00
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
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
11020DES06/69	1102	**Selected Urban Storm Water Runoff Abstracts** Franklin Institute Philadelphia, PA **ORDER FROM: NTIS-PB** 185 314 $3.00
11020DGZ10/69	1102	**Design of a Combined Sewer Fluidic Regulator** Bowles Engineering Corporation Silver Spring, MD **ORDER FROM: NTIS-PB** 188 914 $3.00

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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
11020DIG08/69	1102	**Polymers for Sewer Flow Control** Western Company Richardson, TX **ORDER FROM: NTIS-PB** 185 951 $3.00
11020DIH06/69	1102	**Improved Sealants for Infiltration Control** Western Company Richardson, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 185 950
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
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
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
11020EKO10/69	1102	**Combined Sewer Separation Using Pressure Sewers** American Society of Civil Engineers Cambridge, MA **ORDER FROM: NTIS-PB** 188 511 $3.00
11020EXV07/69	1102	**Strainer/Filter Treatment of Combined Sewer Overflows** Fram Corporation East Providence, RI **ORDER FROM: NTIS-PB** 185 949 $3.00
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
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
11020FDC01/72	1102	**Screening/Flotation Treatment of Combined Sewer Overflows** Rex Chainbelt, Incorporated, Ecology Division Milwaukee, WI **ORDER FROM: GPO** $1.50
11020FKI01/70	1102	**Dissolved-Air Flotation Treatment of Combined Sewer Overflows** Rhodes Corporation Oklahoma City, OK **ORDER FROM: NTIS-PB** 189 775 $3.00
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
11022DMU07/70	1102	**Combined Sewer Regulator Overflow Facilities** American Public Works Association Chicago, IL **ORDER FROM: GPO** $1.50
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
11022DPP10/70	1102	**Combined Sewer Temporary Underwater Storage Facility** Melpar, Incorporated Falls Church, VA **ORDER FROM: GPO** $1.75 **NTIS-PB** 197 669

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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
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
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
11022ELK12/71	1102	**Maximizing Storage in Combined Sewer Systems** Seattle, Municipality of Metropolitan Seattle, WA **ORDER FROM: GPO** $1.75 **NTIS-PB** 209 861
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
11023DAA03/72	1102	**Hypochlorite Generator for Treatment of Combined Sewer Overflows** Ionics, Incorporated Watertown, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 243
11023DPI08/69	1102	**Rapid-Flow Filter for Sewer Overflows** Rand Development Corporation Cleveland, OH **ORDER FROM: NTIS-PB** 194 032 $3.00
11023DZF06/70	1102	**Ultrasonic Filtration of Combined Sewer Overflows** American Process Equipment Corporation Hawthorne, CA **ORDER FROM: GPO** 60¢ **NTIS-PB** 212 421
11023EVO06/70	1102	**Microstraining and Disinfection of Combined Sewer Overflows** Crane Company King of Prussia, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 195 674
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
11023FDB09/70	1102	**Chemical Treatment of Combined Sewer Overflows** Dow Chemical Company Midland, MI **ORDER FROM: GPO** $1.50 **NTIS-PB** 199 070
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
11023FDD07/71	1102	**Demonstration of Rotary Screening for Combined Sewer Overflows** Portland, City of, Department of Public Works Portland, OR **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 814
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
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
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

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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
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
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
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
11024DOK02/70	1102	**Proposed Combined Sewer Control by Electrode Potential** Merrimack College Andover, MA **ORDER FROM: NTIS-PB** 195 169 $3.00
11024DQU10/70	1102	**Urban Runoff Characteristics** Cincinnati, University of Cincinnati, OH **ORDER FROM: GPO** $2.75 **NTIS-PB** 202 865
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
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
11024EJC01/71	1102	**Selected Urban Storm Water Runoff Abstracts, Second Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 60¢ **NTIS-PB** 198 312
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
11024EQE06/71	1102	**Impregnation of Concrete Pipe** Southwest Research Institute San Antonio, TX **ORDER FROM: GPO** 75¢
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
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
11024FJE04/71	1102	**Selected Urban Storm Water Runoff Abstracts, Third Quarterly Issue** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** 75¢
11024FJE07/71	1102	**Selected Urban Storm Water Runoff Abstracts, July 1970-June 1971** Franklin Institute Research Laboratories Philadelphia, PA **ORDER FROM: GPO** $1.50
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

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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
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
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
11030DNK08/68	1103	**Beneficial Use of Storm Water** Hittman Associates, Incorporated Baltimore, MD **ORDER FROM: NTIS-PB** 195 160 $3.00
11030DNS01/69	1103	**Water Pollution Aspects of Urban Runoff** American Public Works Association Chicago, IL **ORDER FROM: NTIS-PB** 215 532 $3.00
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
11034FKL07/70	1103	**Storm Water Pollution From Urban Land Activity** AVCO Economic Systems Corporation Washington, DC **ORDER FROM: NTIS-PB** 195 281 $20.25
11034FLU06/71	1103	**Hydraulics of Long Vertical Conduits and Associated Cavitation** Minnesota, University of Minneapolis, MN **ORDER FROM: GPO** 60¢
11040GKK06/71	1104	**Environmental Impact of Highway Deicing** Edison Water Quality Laboratory, EPA Edison, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 203 493
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
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
11060EOC07/69	1106	**Joint Municipal and Semichemical Pulping Wastes** Erie, City of Erie, PA **ORDER FROM: GPO** $1.50 **NTIS-PB** 185 948
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
11060FAE04/71	1106	**Onondaga Lake Study** Onondaga County Syracuse, NY **ORDER FROM: GPO** $4.50 **NTIS-PB** 206 472
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

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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
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¢
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
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
12010DUL02/71	1201	**Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel** Armco Steel Corporation Middletown, OH **ORDER FROM: GPO** $1.50 **NTIS-PB** 202 233
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
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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12020---02/70	1202	**Petrochemical Effluents Treatment Practices – Summary** Engineering-Sciences, Incorporated/Texas Austin, TX **ORDER FROM: NTIS-PB** 192 310 $3.00
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
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
12020DQC03/71	1202	**Polymeric Materials for Treatment and Recovery of Petrochemical Wastes** Gulf South Research Institute New Orleans, LA **ORDER FROM: GPO** 70¢ **NTIS-PB** 201 699
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12020EJI07/71	1202	**Inorganic Chemicals Industry Profile** Datagraphics, Incorporated Pittsburgh, PA **ORDER FROM: GPO** $1.75 **NTIS-PB** 206 308
12020EXG03/72	1202	**Effect of Chlorination on Selected Organic Chemicals** Manufacturing Chemists Association Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 160
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
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
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
12040DLQ08/71	1204	**Slime Growth Evaluation of Treated Pulp Mill Waste** Oregon State University, Department of Microbiology Corvallis, OR **ORDER FROM: GPO** 60¢
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
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
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
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
12040ELW12/70	1204	**Aerated Lagoon Treatment of Sulfite Pulping Effluents** Crown Zellerbach Corporation Lebanon, OR **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 212
12040EMY12/71	1204	**Multi-System Biological Treatment of Bleached Kraft Effluents** Mead Corporation Chillicothe, OH **ORDER FROM: GPO** $2.00 **NTIS-PB** 208 213
12040ENC12/71	1204	**Color Removal from Kraft Pulping Effluent by Lime Addition** Interstate Paper Corporation Riceboro, GA **ORDER FROM: GPO** $1.25
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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
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
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
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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
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
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
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
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
12060---08/70	1206	**Waste Reduction in Food Canning Operations** National Canners Association Berkeley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 231
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
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
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 **NTIS-PB** 215 416

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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
12060EAE09/71	1206	**Trickling Filter Treatment of Fruit Processing Waste Waters** National Canners Association Berkeley, CA **ORDER FROM: GPO** 50¢ **NTIS-PB** 210 586
12060ECF04/70	1206	**Current Practice in Seafoods Processing Waste Treatment** Oregon State University Corvallis, OR **ORDER FROM: NTIS-PB** 202 232 $3.00
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
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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
12060EHU03/71	1206	**Reconditioning of Food Processing Brines** National Canners Association Berkeley, CA **ORDER FROM: GPO** 75¢ **NTIS-PB** 212 394
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
12060EZP09/70	1206	**Cannery Waste Treatment Kehr Activated Sludge** FMC Corporation Santa Clara, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 199 071
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
12060FAD10/69	1206	**Aerobic Treatment of Fruit Processing Wastes** Snokist Growers Yakima, WA **ORDER FROM: NTIS-PB** 188 506 $3.00
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
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

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12080EZF09/70	1208	**Phenolic Water Reuse by Diatomite Filtration** Johns-Manville Products Corporation Manville, NJ **ORDER FROM: GPO** $1.25 **NTIS-PB** 199 069
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
12090ECS02/71	1209	**State of the Art of Textile Waste Treatment** Clemson University Clemson, SC **ORDER FROM: GPO** $2.50 **NTIS-PB** 212 359
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
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
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
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
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
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
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
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
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
12120FYF03/72	1212	**Fluidized-Bed Incineration of Selected Carbonaceous Industrial Wastes** Battelle Columbus Laboratories Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 211 161
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
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
12130EGK06/71	1213	**Biological Treatment of Chlorophenolic Wastes** Jacksonville, City of Jacksonville, AR **ORDER FROM: GPO** $1.50 **NTIS-PB** 206 813

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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
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
13010---02/70	1301	**Industrial Waste Guide on Logging Practices** FWPCA, Northwest Region Portland, OR **ORDER FROM: NTIS-PB** 207 644 $3.00
13010EGA02/71	1301	**Studies on Effects of Watershed Practices on Streams** Oregon State University Corvallis, OR **ORDER FROM: GPO** $1.50
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
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
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
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
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
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
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
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
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
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

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13030ELY05/71-06	1303	**Removal of Nitrogen from Tile Drainage – A Summary Report** California Department of Water Resources San Joaquin Valley, CA Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 50¢ **NTIS-PB** 215 417
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
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¢
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
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
13030ELY08/71-09	1303	**Effects of Agricultural Waste Water Treatment on Algal Bioassay Response** Water Quality Office, EPA San Francisco, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 891
13030ELY05/72-11	1303	**Possibility of Reducing Nitrogen in Drainage Water by On Farm Practices** U.S. Bureau of Reclamation Sacramento, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 221 482
13030GJS12/71	1303	**National Irrigation Return Flow Research and Development Program** BY J. P. Law, Robert S. Kerr Water Research Center, EPA Ada, OK **ORDER FROM: GPO** 40¢ **NTIS-PB** 209 857
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
13040DEM01/71	1304	**Characteristics of Wastes from Southwestern Cattle Feedlots** Texas Technical University Lubbock, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 214
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
13040EYX11/69	1304	**Agricultural Practices and Water Quality** Iowa State University Ames, IA **ORDER FROM: NTIS-PB** 199 828 $3.00
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
14010---06/70	1401	**Oxygenation of Ferrous Iron** Harvard University Cambridge, MA **ORDER FROM: GPO** $1.75 **NTIS-PB** 189 233
14010DAY06/71	1401	**Inorganic Sulfur Oxidation by Iron-Oxidizing Bacteria** Syracuse University Syracuse, NY **ORDER FROM: GPO** $1.25 **NTIS-PB** 213 006

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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
14010DEE12/70	1401	**Treatment of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 470
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
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
14010DLC11/69	1401	**Sulfide Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: NTIS-PB** 187 866 $3.00
14010DLI02/71	1401	**Silicate Treatment for Acid Mine Drainage Prevention** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 198 427
14010DMO03/70	1401	**New Mine Sealing Techniques for Water Pollution Abatement** Halliburton Company Duncan, OK **ORDER FROM: GPO** $1.50 **NTIS-PB** 196 736
14010DMO03/70-A	1401	**Investigative Mine Survey of a Small Watershed** Halliburton Company Duncan, OK **ORDER FROM: GPO** $2.00 **NTIS-PB** 196 110
14010DRB05/71	1401	**Flocculation and Clarification of Mineral Suspensions** Minnesota, University of Minneapolis, MN **ORDER FROM: GPO** $1.25 **NTIS-PB** 206 238
14010DRZ02/71	1401	**Purification of Mine Water by Freezing** Applied Science Laboratories, Incorporated State College, PA **ORDER FROM: GPO** 70¢ **NTIS-PB** 213 121
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
14010DYH12/71	1401	**Neutradesulfating Treatment Process for Acid Mine Drainage** Catalytic, Incorporated Philadelphia, PA **ORDER FROM: GPO** $1.00 **NTIS-PB** 213 720
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
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
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
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

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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
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
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
14010EIZ01/70	1401	**Limestone Treatment of Acid Mine Drainage** Bituminous Coal Research, Incorporated Monroeville, PA **ORDER FROM: GPO** $1.25 **NTIS-PB** 195 282
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
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
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
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
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
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
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
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
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
14010EXA03/71	1401	**Pilot Scale Study of Acid Mine Drainage** Ohio State University Columbus, OH **ORDER FROM: GPO** $1.00 **NTIS-PB** 214 771
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

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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
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
14010FKK12/70	1401	**Underground Coal Mining Methods to Abate Water Pollution** West Virginia University Morgantown, WV **ORDER FROM: GPO** 60¢ **NTIS-PB** 214 697
14010FLW07/70	1401	**Feasibility Study Manual – Mine Water Pollution Control Demonstrations** Federal Water Quality Administration Washington, DC **ORDER FROM: GPO** 65¢ **NTIS-PB** 197 594
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
14010FNQ02/72	1401	**Electrochemical Treatment of Acid Mine Waters** Tyco Laboratories, Incorporated Waltham, MA **ORDER FROM: GPO** $1.00 **NTIS-PB** 208 820
14010FOA02/71	1401	**Carbonate Bonding of Coal Refuse** Black, Sivalls and Bryson, Incorporated Pittsburgh, PA **ORDER FROM: GPO** 60¢ **NTIS-PB** 198 230
14010FPR04/71	1401	**Acid Mine Drainage Formation and Abatement** Ohio State University Research Foundation Columbus, OH **ORDER FROM: NTIS-PB** 199 835 $3.00
14010FPS02/70	1401	**Sulfide to Sulfate Reaction Mechanism** Ohio State University Research Foundation Columbus, OH **ORDER FROM: GPO** $1.50
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
14010FUI10/71	1401	**Foam Separation of Acid Mine Drainage** Horizons, Incorporated Cleveland, OH **ORDER FROM: GPO** 65¢ **NTIS-PB** 208 411
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
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
14010HBQ09/71	1401	**Feasibility Study Upper Meander Creek Mine Drainage Abatement Project** Stanley Consultants Cleveland, OH **ORDER FROM: GPO** 60¢ **NTIS-PB** 206 232
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
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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15010---01/69	1501	**Basic Waste Characteristics at Winter Recreation Areas** BY B. D. Clark, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 437 $3.00
15010---03/70	1501	**Working Paper No. 68 – Evaluation of Extended Aeration Treatment at Recreation Areas** BY B. D. Clark, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 436 $3.00
15020---06/67	1502	**Houseboat Wastes: Methods for Collection and Treatment** BY B. D. Clark, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 439 $3.00
15020---04/68	1502	**Houseboat Waste Characteristics and Treatment** BY B. D. Clark, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 438 $3.00
15020DGR08/70	1502	**Flexible Holding Tank for Pleasurecraft Sanitary System** Uniroyal, Incorporated Wayne, NJ **ORDER FROM: GPO** 55¢ **NTIS-PB** 201 700
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
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
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
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
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
15040EJZ12/70	1504	**Selective Withdrawal from a Stratified Reservoir** California, University of Berkeley, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 201 726
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
15080---10/70	1508	**Oil Containment Systems** Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 206 797 $3.00
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
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
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

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15080DJO10/69	1508	**Oil Tagging System Study – Summary** Melpar, Incorporated Arlington, VA **ORDER FROM: NTIS-PB** 190 193 $3.00
15080DJO05/70	1508	**Oil Tagging System Study – Final Report** Melpar, Incorporated Arlington, VA **ORDER FROM: GPO** $1.50 **NTIS-PB** 195 283
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
15080DJQ04/70	1508	**Ultrasonic Emulsification of Oil Tanker Cargo** Sonics International, Incorporated Dallas, TX **ORDER FROM: NTIS-PB** 193 674 $3.00
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
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
15080DZR11/70	1508	**Santa Barbara Oil Pollution, 1969** California, University of Santa Barbara, CA **ORDER FROM: GPO** 55¢ **NTIS-PB** 197 670
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
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
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
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
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
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
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
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
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

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15080FHS08/69	1508	**Cleaning Oil-Contaminated Beaches** Federal Water Quality Administration, Northeast Region Research and Development Program Edison, NJ **ORDER FROM: NTIS-PB** 189 172 $3.00
15080FHT12/69	1508	**Oil Sampling Techniques** Edison Water Quality Laboratory, Federal Water Quality Administration Edison, NJ **ORDER FROM: NTIS-PB** 190 171 $3.00
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
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
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
15080FWO02/71	1508	**Floating Oil Recovery Devices** New Mexico State University Las Cruces, NM **ORDER FROM: GPO** $1.00
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
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
15090FOZ10/70	1509	**Control of Spillage of Hazardous Polluting Substances** Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: GPO** $3.00 **NTIS-PB** 197 596
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16110DTF02/71	1611	**Economics of Water Supply and Quality** Harvard University Cambridge, MA **ORDER FROM: GPO** 50¢ **NTIS-PB** 202 698
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
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16110EXW06/71	1611	**Factors Affecting Pollution Referenda** ABT Associates, Incorporated Cambridge, MA **ORDER FROM: GPO** $2.50 **NTIS-PB** 207 350
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
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
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
16110FRU12/71–01	1611	**River Basin Model: An Overview** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 409
16110FRU12/71–02	1611	**River Basin Model: Director's Guide** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.75 **NTIS-PB** 210 855
16110FRU12/71–03	1611	**River Basin Model: Economic Sector** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $2.10 **NTIS-PB** 210 861

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16110FRU12/71–05	1611	**River Basin Model: Chairman and Council** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 70¢ **NTIS-PB** 212 007
16110FRU12/71–06	1611	**River Basin Model: Assessment Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 143
16110FRU12/71–07	1611	**River Basin Model: School Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 859
16110FRU12/71–08	1611	**River Basin Model: Municipal Services Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 799
16110FRU12/71–09	1611	**River Basin Model: Utility Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.25 **NTIS-PB** 210 410
16110FRU12/71–10	1611	**River Basin Model: Highway Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 411
16110FRU12/71–11	1611	**River Basin Model: Planning and Zoning Department** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 146
16110FRU12/71–12	1611	**River Basin Model: Computer Output** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $2.00 **NTIS-PB** 210 703
16110FRU12/71–13	1611	**River Basin Model: The Social Science Laboratory** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $2.00 **NTIS-PB** 213 657
16110FRU12/71–14	1611	**River Basin Model: The Transportation Sector** Envirometrics, Incorporated Washington, DC **ORDER FROM: GPO** $1.25 **NTIS-PB** 211 147
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
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
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
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
16130---12/68	1613	**Experimental Study of Warm Water Flow Into Impoundments – Part II** Minnesota, University of, St. Anthony Falls Hydraulic Laboratory Minneapolis, MN **ORDER FROM: NTIS-PB** 188 513 $3.00

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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
16130---04/70	1613	**Guidelines: Biological Surveys at Proposed Heat Discharge Sites** BY R. D. Harkins, Robert S. Kerr Water Research Center, EPA Ada, OK BY R. R. Garton, Pacific Northwest Water Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: GPO** $1.00 **NTIS-PB** 206 815
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
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
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
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
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
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
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
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
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
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

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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
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
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
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
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
16130ENT12/69	1613	**Thermal Pollution: Status of the Art** Vanderbilt University Nashville, TN **ORDER FROM:** (Vanderbilt – $4.00)
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
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
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
16130FHJ09/70	1613	**Beneficial Uses of Waste Heat – An Evaluation** Pacific Northwest Water Research Laboratory, Federal Water Quality Administration Corvallis, OR **ORDER FROM: NTIS-PB** 201 724 $3.00
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
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
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
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
16130GNK10/71	1613	**Development and Demonstration of Low-Level Drift Instrumentation** Environmental Systems Corporation Knoxville, TN **ORDER FROM: NTIS-PB** 210 759 $5.00

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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
17010---01/70	1701	**Treatment Techniques for Removing Phosphorus from Municipal Wastewaters** BY J. J. Convery, Advanced Waste Treatment Research Laboratory, Federal Water Quality Administration Cincinnati, OH **ORDER FROM: GPO** 50¢ **NTIS-PB** 199 072
17010---02/70	1701	**Electrochemical Method for Removal of Phosphates from Wastewater** BY Shafik E. Sadek, Dynatech R/D Company Cambridge, MA **ORDER FROM: GPO** 50¢ **NTIS-PB** 217 673
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
17010DBL12/70	1701	**Colloid Flotation and Adsorbing Colloid Flotation** Northeastern University Boston, MA **ORDER FROM: NTIS-PB** 205 001 $3.00
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
17010DFV09/70	1701	**Phosphate Study at the Baltimore Back River Wastewater Treatment Plant** Baltimore, City of Baltimore, MD **ORDER FROM: GPO** $1.50 **NTIS-PB** 199 363
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
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
17010DJA11/70	1701	**Investigation of a New Phosphate Removal Process** Envirogenics Company, Division of Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 203 069
17010DRD07/70	1701	**Study of Nitrification and Denitrification** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 658
17010DXD08/70	1701	**Phosphorus Removal by an Activated Sludge Plant** Milwaukee, Sewerage Commission of the City of Milwaukee, WI **ORDER FROM: GPO** $1.00 **NTIS-PB** 227 517
17010DYB02/71	1701	**Phosphorus Removal and Disposal from Municipal Wastewater** Texas, University of, Medical Branch Galveston, TX **ORDER FROM: GPO** $1.25 **NTIS-PB** 218 415
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
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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17010ECZ02/71	1701	**Wastewater Ammonia Removal by Ion Exchange** Battelle Pacific Northwest Laboratories Richland, WA South Tahoe Public Utility District South Lake Tahoe, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 934
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
17010EED07/70	1701	**Electro-Oxidation of Ammonia in Sewage to Nitrogen** Ionics, Incorporated Watertown, MA **ORDER FROM: GPO** 55¢ **NTIS-PB** 204 526
17010EER06/70	1701	**Mobile Pilot Plant for Removal of Phosphate from Wastewaters by Adsorption on Alumina** Battelle Memorial Institute Richland, WA **ORDER FROM: NTIS-PB** 212 374 $3.00
17010EEX10/70	1701	**Development of a Chemical Denitrification Process** Rocketdyne, Division of North American Rockwell Canoga Park, CA **ORDER FROM: GPO** 65¢ **NTIS-PB** 203 597
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
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
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
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
17010EKI09/71	1701	**Phosphate Precipitation with Ferrous Iron** BY M. Ghassimi, and H. L. Recht, Atomics International, Division of North American Rockwell Corporation Canoga Park, CA **ORDER FROM: GPO** 70¢ **NTIS-PB** 209 939
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
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¢
17010FAH07/70	1701	**Development of Phosphate Removal Processes** Detroit Metropolitan Water Department Detroit, MI **ORDER FROM: GPO** 65¢ **NTIS-PB** 203 192
17010FJY02/69	1701	**Alumina Columns for Selective Removal of Phosphorous from Wastewater** Battelle Pacific Northwest Laboratories Richland, WA **ORDER FROM: NTIS-PB** 189 405 $3.00

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17010FKA05/70	1701	**Development of a Pilot Plant to Demonstrate Removal of Carbonaceous, Nitrogenous and Phosphorus Materials from Anaerobic Digester Supernatant and Related Process Streams** FMC Corporation Santa Clara, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 196 733
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
17010FMX01/71	1701	**Nitrification and Denitrification of Wastewater** Minnesota, University of Minneapolis, MN **ORDER FROM: NTIS-PB** 202 350 $3.00
17010FSJ01/71	1701	**Nitrate Removal from Wastewater by Ion Exchange** Dow Chemical Company Walnut Creek, CA **ORDER FROM: GPO** $1.00 **NTIS-PB** 204 527
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
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
17020---04/69	1702	**Ozone Treatment of Secondary Effluent from Wastewater Treatment Plants** Air Reduction Company, Incorporated Murray Hill, NJ **ORDER FROM: NTIS-PB** 187 758 $3.00
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
17020---06/70	1702	**Effect of Surface Groups on Adsorption of Pollutants** Lehigh University Bethlehem, PA **ORDER FROM: GPO** 40¢ **NTIS-PB** 198 519
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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17020DBA03/70	1702	**Ultrafiltrative Dewatering of Spent Powdered Carbon** Amicon Corporation Lexington, MA **ORDER FROM: GPO** 70¢ **NTIS-PB** 197 865
17020DDC06/71	1702	**Effect of Porous Structure on Carbon Activation** Colorado, University of, Chemical Engineering Department Boulder, CO **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 145
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
17020DNQ09/69	1702	**Study of Powdered Carbons for Waste Water Treatment and Methods for Their Applications** West Virginia Pulp and Paper Company Covington, WV **ORDER FROM: NTIS-PB** 191 538 $3.00

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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
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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17020DZO11/70	1702	**Carbon Column Operation in Waste Water Treatment** Syracuse University Syracuse, NY **ORDER FROM: NTIS-PB** 202 579 $3.00
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
17020EFA10/70	1702	**New and Ultrathin Membranes for Municipal Wastewater Treatment by Reverse Osmosis** North Star Research and Development Institute Minneapolis, MN **ORDER FROM: GPO** 70¢ **NTIS-PB** 202 237
17020FBD03/70	1702	**Development of a Fluidized-Bed Technique for the Regeneration of Powdered Activated Carbon** Battelle Memorial Institute Columbus, OH **ORDER FROM: GPO** 55¢ **NTIS-PB** 197 892
17020FKB07/70	1702	**Advanced Wastewater Treatment Using Powdered Activated Carbon in Recirculating Slurry Contactor-Clarifiers** BY C. F. Garland, and R. L. Beebe, Infilco Tucson, AZ **ORDER FROM: GPO** 75¢ **NTIS-PB** 197 890
17020GDN07/71	1702	**Improving Granular Carbon Treatment** FMC Corporation Princeton, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 227 588
17030EOH01/70	1703	**Application of Hyperfiltration to Treatment of Municipal Sewage Effluents** Oak Ridge National Laboratory Oak Ridge, TN **ORDER FROM: GPO** 70¢ **NTIS-PB** 197 671
17030ESX04/70	1703	**Investigation of a High-Pressure Foam Wastewater Treatment Process** Garrett Research and Development Company, Incorporated LaVerne, CA **ORDER FROM: GPO** 45¢ **NTIS-PB** 197 863
17030FEB02/72	1703	**Fluidic Vortex Bubble Generator** Bowles Fluidics Corporation Silver Spring, MD **ORDER FROM: GPO** $1.00 **NTIS-PB** 210 808
17030FWH01/72	1703	**Filtration of Municipal Waste With a Moving Bed Contactor** BY F. O. Mixon, Environmental Studies Center, EPA Research Triangle Park, NC **ORDER FROM: GPO** 60¢ **NTIS-PB** 211 244

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17040---05/70	1704	**Renovation of Municipal Wastewater by Reverse Osmosis** Advanced Treatment Research Laboratory, Federal Quality Administration Cincinnati, OH **ORDER FROM: GPO** 65¢ **NTIS-PB** 199 067
17040---05/70	1704	**Study and Experiments in Waste Water Reclamation by Reverse Osmosis** Gulf General Atomic, Incorporated San Diego, CA **ORDER FROM: GPO** $1.25 **NTIS-PB** 198 092
17040DFC10/70	1704	**Feasibility Study of Regenerative Fibers for Water Pollution Control** Uniroyal, Incorporated Wayne, NJ **ORDER FROM: GPO** 75¢ **NTIS-PB** 208 821
17040DNM02/71	1704	**Feasibility of Treating Wastewater by Distillation** Florida, University of Gainesville, FL **ORDER FROM: GPO** $1.00 **NTIS-PB** 206 145
17040EEE12/71	1704	**Wastewater Demineralization by Ion Exchange** BY E. Kreusch, and K. Schmidt, Culligan International Company Northbrook, IL **ORDER FROM: GPO** $1.25 **NTIS-PB** 209 935
17040EFO06/70	1704	**Membrane Materials for Wastewater Reclamation by Reverse Osmosis** Gulf General Atomic, Incorporated San Diego, CA **ORDER FROM: GPO** 65¢ **NTIS-PB** 197 448
17040EFQ12/69	1704	**Reverse Osmosis Renovation of Municipal Wastewater** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** $1.50 **NTIS-PB** 197 659
17040EFQ02/71	1704	**Reverse Osmosis Renovation of Primary Sewage** Aerojet-General Corporation El Monte, CA **ORDER FROM: GPO** 65¢ **NTIS-PB** 207 645
17040EUE07/71	1704	**Amenability of Reverse Osmosis Concentrate to Activated Sludge Treatment** Rex Chainbelt, Incorporated Milwaukee, WI **ORDER FROM: NTIS-PB** 211 027 $9.25
17040EUN02/71	1704	**Demineralization of Wastewater by the Transport-Depletion Process** Southern Research Institute Birmingham, AL **ORDER FROM: GPO** 65¢ **NTIS-PB** 206 191
17050---07/68	1705	**Evaluation of Waste Treatment System Chemawa Indian School** BY B. D. Clark, and K. A. Dostal, Pacific Northwest Water Laboratory, FWPCA Corvallis, OR **ORDER FROM: NTIS-PB** 208 435 $3.00
17050---10/69	1705	**Photolysis Mechanisms for Pollution Abatement** IIT Research Institute Chicago, IL **ORDER FROM: NTIS-PB** 190 169 $3.00
17050---00/70	1705	**Characteristics and Kinetics of Biological Fixed Film Reactors** Clemson University Clemson, SC **ORDER FROM: NTIS-PB** 199 834 $3.00
17050DAL05/70	1705	**Granular Carbon Treatment of Raw Sewage** FMC Corporation Princeton, NJ **ORDER FROM: GPO** $1.00 **NTIS-PB** 197 864
17050DAM05/69	1705	**Municipal Sewage Treatment with a Rotating Biological Contactor** Allis-Chalmers Research Division Milwaukee, WI **ORDER FROM: NTIS-PB** 201 701 $3.00
17050DAM11/71	1705	**Application of Rotating Disc Process to Municipal Wastewater Treatment** Autotrol Corporation Milwaukee, WI **ORDER FROM: GPO** 75¢ **NTIS-PB** 211 463

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17050DDY12/71	1705	**Literature Search and Critical Analysis of Biological Trickling Filter Studies, Vol. I** Dow Chemical Company, Functional Products and Systems Department Midland, MI **ORDER FROM: GPO** $2.50 **NTIS-PB** 211 909
17050DDY12/71	1705	**Literature Search and Critical Analysis of Biological Trickling Filter Studies, Vol. II** Dow Chemical Company, Functional Products and Systems Department Midland, MI **ORDER FROM: GPO** $2.75 **NTIS-PB** 211 910
17050DHI09/70	1705	**Isolation of Lytic Agents Related to Sphaerotilus** BY D. J. Geason, Randolph-Mason Woman's College Lynchburg, VA **ORDER FROM: NTIS-PB** 211 186 $3.00
17050DJS05/71	1705	**Oxygen Consumption in Continuous Biological Culture** Kansas, University of, Center for Research, Incorporated Lawrence, KS **ORDER FROM: GPO** $1.25 **NTIS-PB** 208 349
17050DNW05/70	1705	**Investigation of the Use of High-Purity Oxygen Aeration in the Conventional Activated Sludge Process** Union Carbide Corporation, Linde Division Tonawanda, NY **ORDER FROM: NTIS-PB** 194 241 $3.00
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EHSD-71-45	R2-73-210	14-12-0818	670/2-73-070
EPA-000CX	R2-72-067	14-12-0818	670/2-73-073
GS-03S-38351	600/5-73-013	14-12-0818	670/2-73-075
10-12-0007	650/1-74-005	14-12-0830	R2-73-233
10-12-0019	650/2-74-001	14-12-0833	660/2-74-076
10-12-0023	650/2-73-022	14-12-0846	670/2-73-042
10-12-0040	650/4-74-027	14-12-0850	R2-73-096
10-12-0049	650/4-73-002	14-12-0870	R2-73-247a
10-12-0061	650/2-74-077	14-12-0870	R2-73-247b
10-12-0088	650/2-74-012	14-12-0887	R2-72-056
10-12-0134	650/1-74-006	14-12-0892	R2-73-144
10-12-0143	650/2-74-024	14-12-0896	R2-73-228
10-12-0162	650/2-74-022	14-12-0897	R2-72-069
10-12-0166	650/2-74-132	14-12-0899	R2-73-205
12-12-0097	650/1-74-001	14-12-0900	R2-73-199
12-12-0139	650/2-74-053	14-12-0908	R2-72-006
135-01-68	R2-73-086	14-12-0909	600/2-73-002
14-12-0001	R2-72-094	14-12-0911	R2-73-145
14-12-0024	660/2-74-050	14-12-0921	R2-72-081
14-12-0024	670/2-74-050	14-12-0921	R2-73-283
14-12-0148	R2-73-224	14-12-0922	660/2-74-036
14-12-0168	670/2-74-048	14-12-0926	R2-72-103
14-12-0179	670/2-73-076	14-12-0935	R2-73-138
14-12-0199	R2-73-282	14-12-0946	R2-73-176
14-12-0201	R2-72-047	22-68-0002	650/3-74-008
14-12-0402	R2-73-170	22-68-0028	R1-73-005
14-12-0441	R3-73-021	22-69-0064	650/3-73-001
14-12-0444	R2-73-240	24-12-0004	650/2-74-084
14-12-0505	670/2-73-047a	24-12-0015	650/2-73-049
14-12-0505	670/2-73-047b	24-12-0025	650/2-73-024
14-12-0508	R3-73-024	24-12-0027	650/2-73-023
14-12-0519	R2-73-149	24-12-0029	650/2-74-018
14-12-0532	R3-73-035	24-12-0045	650/2-74-017

PROJECT NO.	REPORT NO.	PROJECT NO.	REPORT NO.
35-12-0067	650/2-73-013	68-01-0191	R2-73-243
35-12-0067	650/2-74-010	68-01-0195	670/2-74-001
43-12-0142	650/1-74-007	68-01-0196	R5-73-016
68-01-0013	R2-73-165	68-01-0276	650/3-74-002
68-01-0014	R2-73-144	68-01-0279	650/2-73-002
68-01-0038	R2-72-010	68-01-0423	600/5-74-017
68-01-0049	R2-72-123	68-01-0426	600/5-74-009
68-01-0055	R2-73-152	68-01-0428	600/5-74-007
68-01-0058	R2-73-102	68-01-0438	600/2-74-004
68-01-0059	R2-73-221	68-01-0441	R4-73-027
68-01-0060	R2-72-077	68-01-0457	600/2-74-006
68-01-0062	R2-72-082	68-01-0470	600/5-73-004
68-01-0066	R2-73-156	68-01-0483	600/2-74-002
68-01-0067	670/2-73-084	68-01-0550	650/2-74-068
68-01-0068	670/2-73-063	68-01-0666	650/1-73-002
68-01-0069	R2-73-166	68-01-0703	600/5-74-004
68-01-0070	R2-72-049	68-01-0706	R2-72-125
68-01-0073	R2-73-263	68-01-0717	R5-73-023a
68-01-0076	660/3-73-006	68-01-0717	R5-73-023b
68-01-0082	R2-72-004	68-01-0728	600/5-74-010
68-01-0082	670/4-74-004	68-01-0729	600/5-73-003
68-01-0087	R2-72-043	68-01-0741	660/2-73-006a
68-01-0094	670/2-74-017	68-01-0741	660/2-73-006b
68-01-0095	670/2-74-004	68-01-0743	660/2-74-072
68-01-0100	R2-73-185	68-01-0743	660/2-74-073
68-01-0102	R2-73-179a	68-01-0744	600/5-73-008a
68-01-0102	R2-73-179b	68-01-0744	600/5-73-008b
68-01-0102	R2-73-179c	68-01-0744	600/5-74-014
68-01-0102	R2-73-179d	68-01-0753	600/5-73-005
68-01-0106	R2-73-251	68-01-0759	600/4-73-001a
68-01-0111	R4-73-026	68-01-0759	600/4-73-001b
68-01-0120	670/2-73-031	68-01-0759	680/4-74-002
68-01-0121	R2-73-280a	68-01-0759	680/4-74-003
68-01-0121	R2-73-280b	68-01-0763	670/2-74-002
68-01-0124	670/2-73-078	68-01-0777	660/2-74-056
68-01-0135	670/2-73-081	68-01-0782	660/3-74-019
68-01-0139	670/2-73-069	68-01-0788	600/5-74-008
68-01-0140	R2-72-007	68-01-0887	660/2-74-013
68-01-0144	R5-72-001	68-01-0904	660/3-74-022
68-01-0150	R2-73-215	68-01-1805	600/5-74-001
68-01-0161	R2-72-127	68-01-1818	R5-73-024
68-01-0166	R4-73-011	68-01-1818	600/5-74-006
68-01-0167	660/2-73-003	68-01-1818	600/5-74-023
68-01-0168	R2-73-238	68-01-1832	R4-73-023a
68-01-0171	660/2-73-004	68-01-1832	670/4-74-003a
68-01-0173	R2-73-139	68-01-1832	670/4-74-003b
68-01-0178	R2-73-289	68-01-1837	600/5-74-005
68-01-0186	R2-73-293	68-01-1842	600/5-74-019

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68-01-1850	600/5-74-033	68-02-0228	650/2-74-107
68-01-1859	600/5-74-032	68-02-0230	650/2-74-026
68-01-1870	670/2-74-052	68-02-0230	650/2-74-087
68-01-1871	600/5-74-002	68-02-0242	R2-73-229
68-01-1871	600/5-74-016	68-02-0242	R2-73-285
68-01-1882	600/5-74-030	68-02-0242	R2-73-286
68-01-1888	600/5-74-018	68-02-0246	650/2-74-054
68-01-1898	600/5-74-015	68-02-0247	650/2-74-071a
68-01-2114	600/2-74-001	68-02-0250	650/2-74-075
68-01-2203	600/5-74-025	68-02-0251	R2-73-084a
68-01-2203	600/5-74-026	68-02-0251	R2-73-084b
68-01-2637	600/5-74-028	68-02-0252	R2-73-291
68-02-0007	R2-73-172	68-02-0256	650/2-73-036
68-02-0007	650/2-74-064	68-02-0264	650/2-73-005
68-02-0010	650/4-74-037	68-02-0270	650/2-74-045
68-02-0014	R4-73-016a	68-02-0272	650/4-74-003
68-02-0014	R4-73-016b	68-02-0273	650/2-73-035
68-02-0014	R4-73-016c	68-02-0273	650/2-74-102
68-02-0017	650/2-74-047	68-02-0277	650/2-73-004
68-02-0018	650/2-73-047	68-02-0279	650/2-73-003
68-02-0020	650/2-73-026	68-02-0284	650/2-74-074
68-02-0022	650/2-73-015	68-02-0284	650/2-74-092
68-02-0025	650/2-74-085a	68-02-0285	650/2-74-093
68-02-0054	650/2-73-027	68-02-0286	650/2-74-004
68-02-0078	R5-73-022	68-02-0287	650/3-74-004a
68-02-0080	650/1-73-004	68-02-0293	650/2-73-041
68-02-0087	R2-73-275	68-02-0300	650/2-73-039
68-02-0095	650/5-73-001	68-02-0300	650/2-74-109
68-02-0205	650/2-73-001	68-02-0307	650/2-73-043
68-02-0206	650/2-73-042	68-02-0310	650/4-74-015
68-02-0213	650/5-73-002	68-02-0316	R2-73-252
68-02-0214	650/4-74-014	68-02-0320	R2-72-106
68-02-0216	650/2-73-033a	68-02-0324	R2-73-160
68-02-0216	650/2-73-033b	68-02-0329	650/1-73-003
68-02-0217	650/2-73-048a	68-02-0332	650/2-74-061
68-02-0217	650/2-73-048b	68-02-0335	650/4-74-012
68-02-0217	650/2-73-048c	68-02-0336	R4-73-012a
68-02-0217	650/2-73-048d	68-02-0336	R4-73-012b
68-02-0218	650/2-74-105	68-02-0336	R4-73-012c
68-02-0219	R2-73-180	68-02-0339	R4-73-030a
68-02-0220	R2-72-051	68-02-0339	R4-73-030b
68-02-0220	R2-73-051a	68-02-0339	R4-73-030c
68-02-0222	R2-73-292a	68-02-0339	R4-73-030d
68-02-0223	R4-73-025a	68-02-0339	R4-73-030e
68-02-0223	R4-73-025b	68-02-0339	R4-73-030f
68-02-0223	650/4-73-001	68-02-0339	R4-73-030g
68-02-0226	650/2-74-131	68-02-0341	R2-72-071a
68-02-0227	650/2-74-066	68-02-0341	R2-72-071b

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68-02-0543	650/2-73-037	68-02-0629	650/2-74-009b
68-02-0544	650/2-73-016	68-02-0629	650/2-74-009c
68-02-0545	650/2-74-040	68-02-0629	650/2-74-009d
68-02-0546	650/2-74-029	68-02-0630	650/2-74-076
68-02-0551	650/2-73-010	68-02-0634	650/2-74-002a
68-02-0553	650/4-73-003	68-02-0637	650/2-74-119a
68-02-0557	650/3-73-002	68-02-0647	650/2-74-025
68-02-0558	R2-73-197	68-02-0650	650/2-74-062
68-02-0561	650/2-73-025	68-02-0650	650/2-74-062a
68-02-0563	650/2-74-014	68-02-0652	650/4-74-020
68-02-0564	650/2-73-050	68-02-0653	650/2-74-069
68-02-0566	650/2-74-044	68-02-0654	650/4-74-017
68-02-0569	R2-73-218	68-02-0656	650/2-74-020
68-02-0570	650/2-73-040	68-02-0657	650/2-74-006
68-02-0574	650/4-74-009	68-02-0658	650/2-73-009
68-02-0575	650/2-74-094	68-02-0662	650/2-74-008a
68-02-0578	650/2-73-052	68-02-0665	650/4-74-049
68-02-0579	650/2-74-016	68-02-0680	650/4-74-010
68-02-0580	650/4-74-011	68-02-0713	650/1-74-013
68-02-0580	650/4-74-040	68-02-0716	650/2-74-055
68-02-0581	650/2-74-060	68-02-0742	650/2-74-089
68-02-0585	650/2-73-032	68-02-0745	650/4-74-042
68-02-0587	650/2-73-030	68-02-0757	650/2-74-046a
68-02-0588	650/2-73-008	68-02-0757	650/2-74-046b
68-02-0590	650/2-74-039	68-02-0760	650/4-74-051
68-02-0591	650/2-74-133	68-02-0778	650/2-74-056
68-02-0594	R2-73-219	68-02-0782	650/2-74-065
68-02-0595	650/1-74-003	68-02-0788	650/4-74-052
68-02-0598	R4-73-028a	68-02-0798	650/4-74-036
68-02-0598	R4-73-028b	68-02-0800	650/4-74-044
68-02-0598	R4-73-028c	68-02-0994	650/4-74-038
68-02-0600	650/2-73-007	68-02-1010	650/2-74-037a
68-02-0603	650/2-74-031a	68-02-1011	650/2-74-019
68-02-0603	650/2-74-031b	68-02-1015	650/4-74-007
68-02-0622	650/2-73-028	68-02-1068	650/2-74-106
68-02-0623	650/4-74-013	68-02-1074	650/2-74-078a
68-02-0623	650/4-74-021	68-02-1079	650/2-74-108
68-02-0623	650/4-74-024	68-02-1093	650/2-74-058
68-02-0623	650/4-74-025	68-02-1098	650/4-74-023
68-02-0625	650/2-74-103	68-02-1145	650/1-74-009
68-02-0626	650/4-74-022	68-02-1207	650/4-74-001
68-02-0626	650/4-74-026	68-02-1225	650/2-74-059
68-02-0626	650/4-74-028	68-02-1228	650/2-74-121
68-02-0626	650/4-74-029	68-02-1229	650/2-74-120
68-02-0626	650/4-74-033	68-02-1233	650/4-74-043
68-02-0626	650/4-74-039	68-02-1234	650/4-74-005a
68-02-0628	650/2-74-023	68-02-1234	650/4-74-005b
68-02-0629	650/2-74-009a	68-02-1234	650/4-74-005c

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68-02-1234	650/4-74-005d	68-02-2012	650/2-73-044
68-02-1234	650/4-74-005m	68-03-0006	670/2-73-052
68-02-1234	650/4-74-005L	68-03-0038	R2-72-059
68-02-1235	650/4-74-050	68-03-0047	670/5-74-003
68-02-1238	650/4-74-006	68-03-0049	670/2-73-006
68-02-1242	650/4-74-016	68-03-0050	670/2-73-066
68-02-1274	650/1-74-008	68-03-0059	R5-72-003
68-02-1303	650/2-74-079	68-03-0060	670/2-73-056
68-02-1303	650/2-74-114	68-03-0089	670/2-73-053A
68-02-1303	650/2-74-124	68-03-0089	670/2-73-053A-P
68-02-1306	650/2-74-085b	68-03-0089	670/2-73-053B
68-02-1306	650/2-74-086a	68-03-0089	670/2-73-053C
68-02-1306	650/2-74-086b	68-03-0089	670/2-73-053D
68-02-1308	650/2-74-028	68-03-0089	670/2-73-053E
68-02-1308	650/2-74-072	68-03-0089	670/2-73-053F
68-02-1308	650/2-74-098	68-03-0089	670/2-73-053G
68-02-1308	650/2-74-116	68-03-0089	670/2-73-053H
68-02-1308	650/2-74-127	68-03-0089	670/2-73-053I
68-02-1308	650/2-74-130	68-03-0089	670/2-73-053J
68-02-1310	650/4-74-035	68-03-0089	670/2-73-053K
68-02-1316	650/2-74-036	68-03-0089	670/2-73-053L
68-02-1316	650/2-74-043	68-03-0089	670/2-73-053M
68-02-1316	650/2-74-083	68-03-0089	670/2-73-053N
68-02-1318	650/2-74-091	68-03-0089	670/2-73-053O
68-02-1318	650/2-74-123	68-03-0089	670/2-73-053P
68-02-1319	650/2-74-033	68-03-0138	670/2-74-078
68-02-1320	650/2-74-021	68-03-0154	670/2-74-045
68-02-1320	650/2-74-041	68-03-0155	R2-73-261
68-02-1320	650/2-74-082	68-03-0156	670/2-73-086
68-02-1320	650/2-74-117	68-03-0183	670/2-74-068
68-02-1321	650/2-74-101	68-03-0233	660/2-73-026
68-02-1321	650/2-74-115	68-03-0260	670/2-74-082
68-02-1321	650/2-74-122	AP 01186	650/3-74-003
68-02-1323	650/2-74-052	AP-01269-02	650/2-74-005
68-02-1323	650/2-74-099	EC-0030-03	670/2-73-089A
68-02-1323	650/2-74-100	EC-0030-03	670/2-73-089B
68-02-1324	650/2-74-073	EP-00248	670/2-73-023
68-02-1325	650/2-74-097	EP-00250	670/2-73-063
68-02-1325	650/2-74-118	EP-00257	670/2-73-065
68-02-1328	650/2-74-112	EP-00259	670/2-73-072
68-02-1339	650/2-74-067	EP-00262-02	670/2-73-009
68-02-1348	650/2-74-090	EP-00265	670/2-73-083
68-02-1352	650/2-74-030	EP-00268	670/2-73-061
68-02-1353	650/2-74-088	EP-00274	670/2-73-090
68-02-1363	650/4-74-019a	EP-00276-04	670/2-73-005
68-02-1363	650/4-74-046	EP-00279	670/2-73-011
68-02-1480	650/2-74-129	EP-00302	670/2-73-051
68-02-1973	650/2-73-045	EP-00304	670/2-73-087

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EP-00316	670/2-73-041	11023 FWT	R2-73-124
EP-00329	660/2-73-038	11023 GSC	R2-72-008
EP-00329	670/2-73-038	11024 EVF	600/2-73-002
EP-00362	670/2-73-030	11024 FEJ	R2-73-170
EP-00386	670/2-73-049	11024 GRF	R2-72-082
EP-00393	670/2-73-021	11030 DNK	R2-73-139
EP-00500-01	670/2-74-014	11030 DSL	R2-73-242
UI-00509	670/2-73-057	11030 FLN	R2-72-068
WP 01351-01	660/3-74-014	11030 FUJ	R2-72-081
WP-01322-02	670/2-73-027	11034 FUJ	R2-73-283
WP-01398-01	R3-73-011a	11050 FOU	R2-73-270
WP-01398-01	R3-73-011b	11060 DLF	R2-73-236
WP-423-06	R3-73-006	11060 DRO	660/2-73-038
WPD 184-01-67	660/2-74-030	11060 DXX	R2-73-274
WPD-117	R2-73-223	11060 EZX	R2-73-231
WPD-211-02-68	R2-73-017	12010 DFS	R2-73-287
WPD-93-03	R2-73-025	12010 DMF	R2-73-044
WPRD 121-01-68	670/2-73-024	12010 DNF	660/2-74-050
WPRD 185-01-68	660/2-73-015	12010 DRH	660/2-73-033
WPRD 23-01-68	670/2-73-098	12010 EDY	R2-73-167
WPRD 242-01	670/2-73-092	12010 FNM	660/2-73-032
WPRD 247-01	670/2-74-061	12010 FPK	R2-73-247a
WPRD 3-01-68	660/2-74-035	12010 FPK	R2-73-247b
WPRD 30-01-0067	670/2-73-096	12020 EAS	R2-73-200
WPRD 4-01-67	670/2-74-077	12020 FER	R2-73-194
WPRD-191-01-68	R2-73-213	12040 DBD	R2-73-255
WPRD-244-01-68	R2-73-044	12040 DEH	660/2-74-069
WPRD-249-01	R2-73-242	12040 DKD	R2-73-141
WPRD-25-01	R2-73-209	12040 DRY	660/2-74-008
WPRD-5-01-67	R2-73-206	12040 DYD	R2-73-086
WPRD-5-01-67	R2-73-239	12040 EJU	R2-73-164
WP01398-01	R3-73-011c	12040 ESV	R2-73-232
01EP00829	660/2-74-081	12040 EXQ	R2-73-196
11010 ELP	670/2-73-024	12040 GQD	660/2-73-028
11010 ENK	670/2-73-103	12040 HAR	R2-73-184
11010 EZQ	670/2-73-098	12040 HDU	660/2-74-086
11010 FDI	R2-73-138	12050 DKF	R2-72-001
11010 FLQ	670/2-73-050	12050 EZG	R2-72-110
11010 FYM	670/2-73-033	12060 DFF	660/2-74-027
11010 GWI	600/2-73-004	12060 DQV	660/2-73-015
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