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ABSTRACT

Compiled are abstracts and indexes to selected print and non-print materials related to wastewater treatment and water quality education and instruction, as well as materials related to pesticides, hazardous wastes, and public participation. Sources of abstracted/indexed materials include all levels of government, private concerns, and educational institutions. Title, author(s), publication date, cross-references, descriptors, and availability are provided for each entry. Procedures are outlined by which instructors and curriculum developers in the water quality control field can locate instructional materials to meet general or highly specific requirements of their programs. Also included are an author and subject index. This publication supplements and does not replace "Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources" or IRIS supplements 1-28. (ML)

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Prepared by

Environmental Quality Instructional Resources Center
SMEAC Information Reference Center
The Ohio State University
1200 Chambers Road, Room 310
Columbus, OH 43212

ED282736

WATER QUALITY INSTRUCTIONAL
RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to
Water Quality and Water Resources Materials

Supplement 29, 1987.

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

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TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

March, 1987

SE 048 159

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

Environmental Quality Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 292-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The Environmental Quality Instructional Resources Center acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In few cases the Environmental Quality Instructional Resources Center is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

Environmental Quality (EQ) Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this supplement, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EQ Instructional Resources Center at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of the 1983 compilation and supplements that follow and (2) by computer.

The compilation produced in 1983 includes the original IRIS (1979) and Supplements 1-15. It is available for \$75.00.

Quarterly updates of the compilation are available by subscription on a yearly basis. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EQ Instructional Resources Center. A subscription to the quarterly supplements for 1985 is \$12.00 (within the U.S.). Price to Canada and Mexico is \$14.00. Prices in other Countries is \$18.00. Separate quarterly supplements are \$5.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched. The IRIS tapes are available for searching at The Ohio State University and will again be available for computer searching at other sites in the future.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not, contact the EQ Instructional Resources Center for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but users can access them through Dialog, BRS, CompuServe and Systems Development Corporation (Orbit). For the address of search services in your state that can search these databases, contact the:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EQ Instructional Resources Center for \$.06 per page plus \$1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EQ Instructional Resources Center.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. For prices and further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600

I. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered into ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

- a. IRIS NUMBER: EW006023
 - b. PUBLICATION DATE: FEB 81
 - c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
 - d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
 - e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES
 - f. DESCRIPTIVE NOTE: 30-33P.
 - g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.
 - h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2
- a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.
 - b. PUBLICATION DATE -- date material was published according to information on the material.
 - c. TITLE
 - d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.
 - e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

- f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed. The price of the material quoted is the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.
 - g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.
 - h. AVAILABILITY -- information in this field indicates where the material can be obtained.
2. Sample resume of material entered into ERIC (Resources in Education).

Items entered into ERIC (Resources in Education) will have a few additional data fields. See letter references "a" and "b" below.

IRIS ACCESSION NUMBER: EW006664
 PUBLICATION DATE: 80
 TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
 DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

- b. DESCRIPTIVE NOTE: EDRS PRICE: MFO1 PLUS POSTAGE--NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF WATERSHED LANDS. (ED 197 941)

- a. AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, 3900 Wheeler Avenue, Alexandria, VA 22304
- a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

- b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EQ Instructional Resources Center.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index or Author Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to Laboratory Techniques and to Wastewater Treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence, they are not listed in this index.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the sources to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about four times a year as information is available.

If you are not on the mailing list write to the EQ Instructional Resources Center for subscription information.

If you need information about IRIS you can also phone (614) 292-6717 with your questions.

V. Requests for Assistance in Using IRIS

If you need help in using the IRIS manuals, phone (614) 292-6717 or write to the EQ Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EQ Instructional Resources Center has developed or obtained some materials in these areas.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
The Ohio State University

National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabilitation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services

University of Michigan
School of Education, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings, theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary and Early Childhood Education

University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management

University of Oregon
Library, Room 108
1787 Agate Street
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children

Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education

George Washington University
One Dupont Circle, NW, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

- G. ERIC Clearinghouse on Information Resources
 Syracuse University
 School of Education
 Huntington Hall, Room 030
 150 Marshall Street
 Syracuse, New York 13210
 Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

- H. ERIC Clearinghouse for Junior Colleges
 University of California at Los Angeles (UCLA)
 Mathematical Sciences Building, Room 8118
 405 Hilgard Avenue
 Los Angeles, California 90024
 Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

- I. ERIC Clearinghouse on Languages and Linguistics
 Center for Applied Linguistics
 1118 "22nd" Street, NW
 Washington, DC 20037
 Telephone: (202) 429-9551

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English and speakers of other languages.

- J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teacher of English
 1111 Kenyon Road
 Urbana, Illinois 61801
 Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

- K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
 Box 3AP
 Las Cruces, New Mexico 88003
 Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

- L. ERIC Clearinghouse for Science, Mathematics and Environmental Education
The Ohio State University
 1200 Chambers Road - Room 310
 Columbus, Ohio 43212
 Telephone: (614) 292-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

- M. ERIC Clearinghouse for Social Studies/Social Science Education
 Indiana University
 Social Studies Development Center
 2805 East 10th St.
 Bloomington, IN 47405
 Telephone: (812) 335-3838

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

- N. ERIC Clearinghouse on Teacher Education
 American Association of Colleges for Teacher Education (AACTE)
 One Dupont Circle, NW, Suite 610
 Washington, DC 20036
 Telephone: (202) 293-2450

School personnel at all levels, all issues from selection through preservice and inservice preparation and training to retirement; curricula, educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

- O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
 Educational Testing Service (ETS)
 Rosedale Road
 Princeton, New Jersey 08541
 Telephone: (609) 734-5176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects of programs.

- P. ERIC Clearinghouse on Urban Education
 Teachers College, Columbia University
 Institute for Urban and Minority Education
 Box 40
 525 West 120th Street
 New York, New York 10027
 Telephone: (212) 678-3433

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences), education of urban, Puerto Rican and Asian American

populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics, structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

- Q. Educational Resources Information Center
Office of Educational Research and Improvement (OERI)
555 New Jersey, Ave. NW
Room 522
Washington, DC 20208
Telephone: (202) 626-9240

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

- A. A number of audiovisual materials can be obtained on a rental basis or purchased from the EQ Instructional Resources Center. Most items previously available from the NTOTC office are available from the EQ Instructional Resources Center at The Ohio State University. For further information write or call.
- B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

- C. The EQ Instructional resources Center will provide Xerox copies of materials that are not copyrighted for \$1.00 per document plus \$0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EQ Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

RESUME SECTION

IRIS ACCESSION NUMBER: EWØ

**TITLE: DESIGN HYDROGRAPHS
MODEL (DABRO).**

PERSONAL AUTHOR: GOLDING,

**DESCRIPTOR: BASIC LANGUAGE
PROGRAMS; *COMPUTER SOFTWARE**

NO. : PB86-199130/WEP

**ABSTRACT: THE INFECTIOUS
ON THE MANAGEMENT OF INFECTI
THE EPA PERSPECTIVE ON
MANAGEMENT PRACTICES. TOP I
INFECTIOUS WASTE AND RECO
TREATMENT, TRANSPORTATION,
WASTES. THE DOCUMENT ALSO
STATE REQUIREMENTS AND REGUL**

**AVAILABILITY: NATIONAL TEC
PORT ROYAL ROAD, SPRINGFIELD**

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013887

PUBLICATION DATE: JAN 86

TITLE: HANDLING PRACTICES AT HAZARDOUS WASTE SITES.

PERSONAL AUTHOR: WAGNER, K.; AND OTHERS

DESCRIPTOR: *COSTS; *DRUMS; *HAZARDOUS MATERIALS;
*WASTES; *MANUALS; *MATERIALS HANDLING; *RESEARCH
*TECHNIQUES; *WASTE DISPOSAL; *WASTE STORAGE

DESCRIPTIVE NOTE: 191P. PRICE CODE: PC A09/MF A01. ORDER
NO.: PB86-5362/WEP

ABSTRACT: THE PURPOSE OF THE RESEARCH EFFORT WAS TO PROVIDE
GUIDANCE ON PLANNING AND IMPLEMENTING SAFE AND
EFFECTIVE RESPONSE ACTIONS APPLICABLE TO HAZARDOUS
WASTE CONTAINING DRUMS. THE MANUAL PROVIDES DETAILED
GUIDANCE ON METHODS, PROCEDURES, AND EQUIPMENT
FOR REMOVING DRUMMED WASTES. INFORMATION IS
PROVIDED ON LOCATING BURIED DRUMS; EXCAVATION AND ONSITE
DRUM STAGING, OPENING, AND SAMPLING; WASTE
ISOLATION; AND TEMPORARY STORAGE AND SHIPPING. EACH OF
THE PROCEDURES IS DISCUSSED IN TERMS OF THE EQUIPMENT AND
METHODS USED IN CARRYING OUT SPECIFIC ACTIVITIES; HEALTH
AND SAFETY PROCEDURES; MEASURES FOR PROTECTING THE
ENVIRONMENT AND PUBLIC WELFARE; AND FACTORS AFFECTING COSTS.
THE MANUAL IS ALSO INCLUDED ON THE APPLICATIONS AND
METHODS OF THE FOLLOWING REMEDIAL MEASURES FOR
HAZARDOUS WASTE CONTAINING MIGRATION OF WASTES: SURFACE
WATER CONTROLS, GROUNDWATER PUMPING,
SLURRY WALLS, AND IN-SITU TREATMENT

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013888

PUBLICATION DATE: MAY 86

TITLE: BIOLOGY OF GROUNDWATER. 1978-APRIL 1986
(FROM THE LIFE SCIENCES COLLECTION DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
*MICROBIOLOGY; *WATER QUALITY

DESCRIPTIVE NOTE: 38P. PRICE CODE: PC N01/MF N01. ORDER
NO.: PB86-5522/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
THE OCCURRENCE, DISTRIBUTION, ACTIVITY, AND MOVEMENT OF
MICROORGANISMS. DETECTION OF MICROORGANISMS AND
EFFECTS UPON GROUNDWATER QUALITY ARE ALSO CONSIDERED.
THIS BIBLIOGRAPHY CONTAINS 72 CITATIONS, 19 OF WHICH ARE
NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013889

PUBLICATION DATE: MAY 86

TITLE: PULPING WASTEWATER TREATMENT: AERATION PROCESS
AND EQUIPMENT. 1976-APRIL 1986 (CITATIONS FROM THE
LITERATURE AND BOARD, PRINTING, AND PAPER INDUSTRY)

DESCRIPTOR: *AERATION PROCESS; *ANNOTATED BIBLIOGRAPHIES;
*COSTS; BIBLIOGRAPHIES; *EQUIPMENT; *INDUSTRIAL WASTEWATER
*OPERATIONS (WASTEWATER); *PAPER INDUSTRY; *PERFORMANCE
EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 52P. PRICE CODE: PC N01/MF N01.
NO.: PB86-867132/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
PLANT OPERATIONS AND METHODS, PILOT PLANT AND LABORATORY
TESTS, AND RESULTS OF PULPING MILL WASTEWATER TREATMENT
PROCEDURES. COMPOSITION OF EFFLUENT COMPONENTS INCLUDING
CONDENSATES, BLEACHING EFFLUENTS, AND SPENT LIQUOR
IS DISCUSSED. FOREIGN AND DOMESTIC PLANT EFFICIENCY
PERFORMANCE REPORTS, AND COST DATA ARE CONSIDERED. A
DESIGN, LAGOON TREATMENT SYSTEM UPGRADING CONSIDERATION
ENVIRONMENTAL ASPECTS ARE INCLUDED. (THIS BIBLIOGRAPHY
CONTAINS 119 CITATIONS, 21 OF WHICH ARE NEW ENTRIES TO
THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013890

PUBLICATION DATE: FEB 86

TITLE: UNITED STATES PRACTICE IN SLUDGE TREATMENT AND
DISPOSAL.

PERSONAL AUTHOR: FARRELL, J. B.

DESCRIPTOR: *COSTS; *PERFORMANCE EVALUATION; *OPERATIONS
(WASTEWATER); *SLUDGE; *SLUDGE TREATMENT; *WASTE DISPOSAL;
*WASTE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29P. PRICE CODE: PC A03/MF A01.
NO.: PB86-166006/WEP

ABSTRACT: SLUDGE TREATMENT AND DISPOSAL PROBLEMS AND
CONCERN HAVE GROWN WITH INCREASED CONCERN ABOUT THE QUALITY OF WASTEWATER
TREATMENT. AS STANDARDS FOR EFFLUENT QUALITY IN THE UNITED STATES
HAVE BECOME STRICTER, THE PROBLEMS OF SLUDGE TREATMENT AND DISPOSAL
HAVE GROWN DISPROPORTIONATELY. THE COSTS OF SLUDGE TREATMENT AND
DISPOSAL AT A METROPOLITAN SEWAGE TREATMENT PLANT REPRESENT ALMOST
THE COST OF WASTEWATER TREATMENT. SLUDGE PROBLEMS, ALL OF WHICH ARE
OF SERIOUS CONCERN EVERYWHERE, ARE DIFFERENT FOR DIFFERENT
LOCATIONS. THE APPROACH TO SLUDGE HANDLING AND THE SOLUTIONS

DEPENDS ON GEOGRAPHY, CLIMATE, POPULATION, AND NATURE OF INDUSTRIAL WASTES IN THE AND LOCAL DETAILS (E.G., PROXIMITY OF HILLS, DENCES, FARMLAND, LANDFILLS, STRIP-MINED LAND). SCANS U.S. PRACTICE AND IDENTIFIES THE AND MORE SUCCESSFUL APPROACHES TO SLUDGE DISPOSAL THAT HAVE DEVELOPED OVER THE YEARS.

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
AD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013891

PUBLICATION DATE: MAY 86

TITLE: PULPING MILL EFFLUENTS: ACTIVATED SLUDGE TREATMENT
976 - APRIL 1986 (CITATIONS FROM THE PAPER AND
NG, AND PACK

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
*ACTIVATED SLUDGE; *EFFLUENTS; *INDUSTRIAL WASTES;
(WASTEWATER); *PULP INDUSTRY; *WASTEWATER
PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 70P. PRICE CODE: PC N01/MF N01. ORDER
6977/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
IES, LABORATORY ANALYSES, FIELD APPLICATIONS,
EVALUATIONS, AND COST FACTORS OF PULPING MILL
DGE TREATMENT FACILITIES. MONITORING TECHNIQUES
VATED SLUDGE EFFLUENT TREATMENT PROCESS, AND
BLEMS AND SOLUTIONS ARE DISCUSSED. COMPUTERIZED
F ACTIVATED SLUDGE PLANTS ARE INCLUDED. (THIS
OGRAPHY CONTAINS 150 CITATIONS, 32 OF WHICH ARE
O THE PREVIOUS EDITION.)

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
AD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013892

PUBLICATION DATE: MAY 86

TITLE: RADIATION EXPOSURE: TOXICITY IN HUMANS. 1978-APRIL
NS FROM THE LIFE SCIENCES COLLECTION DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
*HEALTH EFFECTS; *OCCUPATIONAL HEALTH; *TOXIC

DESCRIPTIVE NOTE: 113P. PRICE CODE: PC N01/MF N01. ORDER
6837/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
OF CADMIUM ON HUMANS. BIOLOGICAL MONITORING OF
USED TO CADMIUM IS DISCUSSED IN DEPTH. THE
CADMIUM ON VISUAL-MOTOR PERFORMANCE, COMMUNITY
CHILD AND INFANT DEVELOPMENT ARE PRESENTED.
A CONTRIBUTING FACTOR IN RENAL, KIDNEY, LIVER

DISEASE, AND INFERTILITY IS DISCUSSED. THE EFFECTS OF
SMOKING ON CADMIUM RETENTION ARE MENTIONED. (CONTAINS
CITATIONS FULLY INDEXED AND INCLUDING A TITLE LIST.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013893

PUBLICATION DATE: MAY 86

TITLE: WASTEWATER TREATMENT. JUNE 1970-MAY 1986 (CITATIONS
FROM THE ENGINEERING INDEX DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
*INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *RECYCLING
*WASTEWATER TREATMENT; *EQUIPMENT

DESCRIPTIVE NOTE: 187P. PRICE CODE: PC N01/MF N01.
NO.: PB86-867850/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
TECHNIQUES AND EQUIPMENT FOR THE TREATMENT OF INDUSTRIAL
(EXCEPT MINING) EFFLUENT STREAMS. CONSIDERATION IS GIVEN TO
THE REMOVAL, RECLAMATION, AND RECYCLING OF VARIOUS
METALS, HEAVY-METALS, HYDROCARBONS, AND OILY WASTEWATER.
MEET REGULATORY AGENCY DISCHARGE OR INDUSTRIAL REUSE STANDARDS.
(THIS UPDATED BIBLIOGRAPHY CONTAINS 263 CITATIONS,
WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013894

PUBLICATION DATE: MAY 86

TITLE: ACTIVATED CARBON: UTILIZATION EXCLUDING INDUSTRIAL
WASTE TREATMENT. FEBRUARY 1983-APRIL 1986 (CITATIONS FROM
THE ENGINEERING INDEX DATABASE).

DESCRIPTOR: *ACTIVATED CARBON; *ANNOTATED BIBLIOGRAPHIES;
BIBLIOGRAPHIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 262P. PRICE CODE: PC N01/MF N01.
NO.: PB86-867744/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
THE COMMERCIAL UTILIZATION AND THEORETICAL STUDIES OF
ACTIVATED CARBON. TOPICS INCLUDE PERFORMANCE EVALUATION,
WATER TREATMENT PROCESSES, PREPARATION AND REGENERATION
TECHNIQUES, MATERIALS RECOVERY, AND PORE STRUCTURE STUDIES.
ADSORPTION CHARACTERISTICS FOR SPECIFIC MATERIALS ARE
DISCUSSED. STUDIES PERTAINING SPECIFICALLY TO INDUSTRIAL
WASTE TREATMENT ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY
CONTAINS 345 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE
PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ON NUMBER: EW013895
DATE: JUN 85

HAZARDOUS WASTE MANAGEMENT IN INSTITUTIONS AND

AUTHOR: KROFTA, M.; WANG, L. K.

*COLLEGES; *HAZARDOUS WASTES; *INSTITUTIONS;
*WASTE MANAGEMENT; *WASTES

NOTE: 43P. PRICE CODE: PC A03/MF A01. ORDER
NO.: PB86-867884/WEP

THE TOPICS INCLUDED: (A) CLASSIFICATION AND
OF HAZARDOUS WASTES FOR PROPER DISPOSAL OR
(B) DISPOSAL OF COMBUSTIBLE BUT NON-VOLATILE
WASTES; (C) DISPOSAL OF COMBUSTIBLE AND VOLATILE
WASTES; (D) DISPOSAL OF EXTREMELY HAZARDOUS ORGANIC
WASTES (DIOXIN ETC.) AND RADIO-ACTIVE WASTES; (E)
WASTEWATER OR SLUDGE CONTAINING TOXIC HEAVY
ELEMENTS; (F) DISPOSAL OF PATHOGENIC WASTES
(BACTERIA, VIRUSES, FUNGI, NEMATODES, ETC. (G)
(ION) OF ACID WASTES ALKALINE WASTES; (H)
WASTE OIL; (I) DISTILLATION OF WASTE SOLVENT;
WASTE RECOVERY; (J) HANDLING AND RECOVERY OF
METALS FROM COD WASTE; AND (L) SOLIDIFICATION OR
OF HAZARDOUS SLUDGE.

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ON NUMBER: EW013896

DATE: MAY 86

ACTIVATED CARBON: UTILIZATION EXCLUDING INDUSTRIAL
WASTE TREATMENT, JULY 1980-JANUARY 1983 (CITATIONS FROM THE
NTIS DATABASE)

*ACTIVATED CARBON; *ANNOTATED BIBLIOGRAPHIES;
*WATER TREATMENT

NOTE: 122P. PRICE CODE: PC N01/MF N01. ORDER
NO.: PB86-865854/WEP

THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
INDUSTRIAL UTILIZATION AND THEORETICAL STUDIES OF
ACTIVATED CARBON. TOPICS INCLUDE PERFORMANCE EVALUATIONS IN
WASTE TREATMENT PROCESSES, PREPARATION AND REGENERATION
OF CARBON MATERIALS RECOVERY, AND PORE STRUCTURE STUDIES.
CHARACTERISTICS FOR SPECIFIC MATERIALS ARE
STUDIES PERTAINING SPECIFICALLY TO INDUSTRIAL
WASTES ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY
CONTAINS 160 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE
PREVIOUS EDITION.)

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013897
PUBLICATION DATE: MAY 86

TITLE: WASTEWATER TREATMENT: LAGOONS. 1977-MAY
(CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS
DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
DESIGN; EQUIPMENT; *FACILITIES; *LAGOONS; *OPERATIONS;
(WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 154P. PRICE CODE: PC N01/MF N01.
NO.: PB86-867884/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
THE TREATMENT AND STORAGE OF WASTEWATER IN LAGOONS.
DESIGN, OPERATION, EQUIPMENT, AND PRETREATMENT PROCESSES
ARE DISCUSSED. THE TREATMENT OF WASTEWATER FROM BREWERIES,
TANNERIES, PAPER MILLS AND OTHER INDUSTRIAL OPERATIONS IS
CONSIDERED. DESCRIPTIONS AND EVALUATIONS OF SOME
FACILITIES ARE PROVIDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS
276 CITATIONS, 73 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS
EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013898

PUBLICATION DATE: MAY 86
TITLE: HAZARDOUS MATERIALS WASTE DISPOSAL. JUNE 1980-
1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
*HAZARDOUS MATERIALS; *WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 91P. PRICE CODE: PC N01/MF N01.
NO.: PB86-865854/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
THE DISPOSAL OF HAZARDOUS INDUSTRIAL AND MUNICIPAL WASTES,
CHEMICAL AGENTS, AND A VARIETY OF OTHER DANGEROUS
SUBSTANCES. TOPICS INCLUDE RESTORATION OPERATIONS,
CONTAMINATION ABATEMENT STUDIES, APPROPRIATE REGULATORY
LEGISLATION, AND REMEDIAL RESPONSE STRATEGIES. CONSIDERABLE
ATTENTION IS GIVEN TO WASTE DISPOSAL SITES AT MUNICIPAL
INSTALLATIONS AND TO INCINERATION OPERATIONS. CITATIONS
PERTAINING SPECIFICALLY TO RADIOACTIVE WASTE DISPOSAL ARE
EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 160 CITATIONS,
ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ON NUMBER: EW013899

DATE: MAY 86

DOUS MATERIALS WASTE DISPOSAL. FEBRUARY 1983-
ATIONS FROM THE NTIS DATABASE.).

*ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
ATERIALS; *WASTES; *WASTE DISPOSAL

NOTE: 216P. PRICE CODE: PC N01/MF N01. ORDER
55847/WEP

IS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
OF HAZARDOUS INDUSTRIAL AND MUNICIPAL WASTES,
ENTS, AND A VARIETY OF OTHER DANGEROUS
TOPICS INCLUDE RESTORATION OPERATIONS,
ABATEMENT STUDIES, APPROPRIATE REGULATION AND
AND REMEDIAL RESPONSE STRATEGIES. CONSIDERABLE
GIVEN TO WASTE DISPOSAL SITES AT MILITARY
AND TO INCINERATION OPERATIONS. CITATIONS
SPECIFICALLY TO RADIOACTIVE WASTE DISPOSAL ARE
IS UPDATED BIBLIOGRAPHY CONTAINS 226 CITATIONS,
H ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
AD, SPRINGFIELD, VA 22161

ON NUMBER: EW013900

DATE: MAY 86
ING: BIOLOGICAL EFFECTS. 1979-MAY 1986
FROM THE NTIS DATABASE).

*ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES;
EFFECTS; *DREDGING; *WASTE DISPOSAL

NOTE: 123P. PRICE CODE: PC N01/MF N01. ORDER
55839/WEP

IS UPDATED BIBLIOGRAPHY CONTAINS CITATIONS
HABITAT DEGRADATION AND DEVELOPMENT DUE TO
OPERATIONS AND DISPOSAL. TOPICS INCLUDE
IMPACT STUDIES, LONG-TERM EFFECTS, AQUATIC
PONSE STUDIES, AND BIOACCUMULATION OF MATERIALS
DREDGE SPOILS, OCEAN DISPOSAL OPERATIONS, AND
FORMED IN SPECIFIC AREAS ARE ALSO DISCUSSED.
ED BIBLIOGRAPHY CONTAINS 226 CITATIONS, 61 OF
W ENTRIES TO THE PREVIOUS EDITION.)

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
AD, SPRINGFIELD, VA 22161

ON NUMBER: EW013901

DATE: JAN 86

UTER ASSISTED PRELIMINARY DESIGN FOR DRINKING
ENT PROCESS SYSTEMS.

DESCRIPTOR: *COMPUTER APPLICATIONS; *DESIGN; *DR
WATER; *COSTS; *PERFORMANCE EVALUATION; *OPERATIONS (W
*WATER TREATMENT

DESCRIPTIVE NOTE: 279P. PRICE CODE: PC A13/MF A01.
NO.) PB06-101112/WEP

ABSTRACT: THE PURPOSE OF THE STUDY WAS TO DEVE
INTERACTIVE COMPUTER PROGRAM TO AID THE DESIGN ENGIN
EVALUATING THE PERFORMANCE AND COST FOR ANY PR
DRINKING WATER TREATMENT SYSTEM CONSISTING OF INDI
UNIT PROCESSES. THE 25 UNIT PROCESS MODELS CURRENTLY
PROGRAM INCLUDE BOTH CONVENTIONAL AND ADVANCED CONTA
REMOVAL PROCESSES AND VARIOUS SLUDGE HANDLING TECHN
TECHNOLOGY USED IN SIZING PROCESSES, ESTIMATING PERFOR
AND ESTIMATING TREATMENT IS THE BEST CURRENTLY AVAILAB
PRELIMINARY DESIGN. TO USE THE PROGRAM, THE DESIGNE
MUST PREPARE A FLOW DIAGRAM, INPUT THE RAW QUALIT
PROVIDE COST AND DESIGN DECISION PARAMETERS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013902

PUBLICATION DATE: AUG 85

TITLE: PROGRAM FOR CALCULATING THE PERFORMANCE AND C
DRINKING WATER TREATMENT SYSTEMS (FOR MICROCOMPUTERS)

PERSONAL AUTHOR: EILERS, R. G.; SMITH R.
DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SO
*COSTS; *DESIGN; *DRINKING WATER; *OPERATIONS (W
*PERFORMANCE EVALUATION; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: CP T99. ORDER NO.:
181120/WEP

ABSTRACT: THE COMPUTER PROGRAM IS WRITTEN IN BASIC P
ON THE IBM PC 128K MICROCOMPUTER. THE PROGRAM S
CONSISTS OF TWO STANDARD 5.25 INCH DISKETTES (DOUBLE
DOUBLE DENSITY, 40 TRACK, SOFT SECTORED). THE M
INTERACTIVE, REQUIRING THE USER TO SUPPLY INPUT U
RESPONSE TO SCREEN PROMPTS. THERE ARE 25 UNIT PROCESS
IN THE PROGRAM, WHICH ESTIMATE THE EXPECTED PERFORMA
ASSOCIATED COSTS FOR DRINKING WATER TREATMENT SYSTEMS
ON RAW WATER QUALITY AND DESIGN DECISION PARAMETERS S
BY THE USER. BY VARYING THE INPUT DATA, IT IS POSS
PERFORM SENSITIVITY ANALYSIS ON A PROPOSED DESIGN OR
THE PERFORMANCE AND COST OF ALTERNATIVE DESIGNS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013904

PUBLICATION DATE: MAY 86

TITLE: SUMMARY REVIEW OF THE HEALTH EFFECTS ASSOCIATI

TH ISSUE ASSESSMENT.

OR: BRUCE, R. M.

*CHEMICALS; *HEALTH EFFECTS; *PHENOL; *RISK
TOXIC SUBSTANCES

OTE: 44P. PRICE CODE: PC A03/MF A01. ORDER
8076/WEP

ARGER PRODUCTION VOLUME AND NATURAL SOURCES OF
ENZENE, GENERICALLY KNOWN AS PHENOL, MAKE
ELY. OCCUPATIONAL AND ENVIRONMENTAL EXPOSURE TO
ARGELY RESTRICTED TO SOURCE DOMINATED AREAS.
ED ON MONITORING DATA, AMBIENT LEVELS OF PHENOL
Y LOW COMPARED WITH THE PRESENT TLV (THRESHOLD
OF 5 PPM (19 MG/CU.M.). THE STEL (SHORT-TERM
EL) FOR PHENOL IS 10 PPM (38 MG/CU.M.). THE
LF-LIFE OF PHENOL IS 0.5 DAY, AND LESS THAN 1
POLLUTED ATMOSPHERES. THE ODOR RECOGNITION
PHENOL IS 0.05 PPM (0.19 MG/CU.M.), A LEVEL FAR
LEVELS WHERE TOXIC EFFECTS HAVE BEEN REPORTED.
BSORBED BY ANIMALS AND HUMANS AFTER ORAL,
OR DERMAL EXPOSURE. MUSCLE WEAKNESS,
AND COMA ARE THE PREDOMINANT SYMPTOMS AFTER
LETHAL CONCENTRATIONS. AFTER ABSORPTION,
ENOL IS METABOLIZED PRINCIPALLY BY THE LIVER,
OCCURS MAINLY VIA URINE.

NATIONAL TECHNICAL INFORMATION SERVICE, 5285
AD, SPRINGFIELD, VA 22161

N NUMBER: EW013905

ATE: MAR 86

DOUS WASTE TANKS RISK ANALYSIS.

*HAZARDOUS WASTES; *HEALTH; *TANKS;
*RISK ASSESSMENT; *STORAGE TANKS; *WASTE

OTE: 269P. PRICE CODE: PC A12/MF A01. ORDER
2937/WEP

E PURPOSE OF THIS ANALYSIS WAS TO ASSESS THE
RISKS ASSOCIATED WITH: (1) THE POPULATION OF
TE TANKS UNDER THE CURRENT REGULATORY APPROACH;
POPULATION OF HAZARDOUS WASTE TANKS UNDER THE
ULATORY STRATEGIES CONSIDERED BY EPA. THE
T TANKS CONSIDERED IN THIS ANALYSIS INCLUDED
S AND PERMITTED HAZARDOUS WASTE TANKS, 90-DAY
TANKS, AND SMALL QUANTITY GENERATOR INTERIM
MITTED OR 180-DAY ACCUMULATION TANKS. THE
TERNATIVES EXAMINED IN THIS ANALYSIS INCLUDED
FULL SECONDARY CONTAINMENT, PARTIAL SECONDARY
AND GROUND WATER MONITORING, LEAK TESTING AND
MONITORING, AND CORROSION PROTECTION. ANALYSIS
REGULATORY ALTERNATIVES ALLOWS FOR DIRECT
BETWEEN RISK PRESENTED BY HW TANKS UNDER
REGULATORY SCENARIOS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013906

PUBLICATION DATE: MAR 86

TITLE: DESIGN, CONSTRUCTION AND EVALUATION OF CLAY
OR WASTE MANAGEMENT FACILITIES. DRAFT TECHNICAL RE
DOCUMENT FOR PUBLIC

DESCRIPTOR: *CLAY LINERS; *CONSTRUCTION; *D
*FACILITIES; *LINERS; *MANAGEMENT; *PERFORMANCE EVALU
*WASTE MANAGEMENT; *WASTE DISPOSAL; *WASTE STORAGE

DESCRIPTIVE NOTE: 600P. PRICE CODE: PC A25/MF A01.
NO.: PB86-184496/WEP

ABSTRACT: THE TECHNICAL RESOURCE DOCUMENT IS A COMPI
OF ALL OF THE AVAILABLE INFORMATION ON THE D
CONSTRUCTION, AND EVALUATION OF CLAY LINERS FOR
LANDFILLS, SURFACE IMPOUNDMENTS, AND WASTEPILES.
INFORMATION IS PRESENTED FOR THE FIRST TIME IN THE DOC
THE BROAD TOPICS COVERED ARE: CLAYS, WITH EMPHASIS ON
COMPOSITION, FABRIC, AND HYDRAULIC CONDUCT
GEOTECHNICAL TEST METHODS AND SOIL PROPERTIES INCI
INDEX PROPERTIES, SOIL CLASSIFICATION, AND HYD
CONDUCTIVITY TESTING, AND CLAY CHEMICAL COMPATIBILITY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013907

PUBLICATION DATE: MAY 86

TITLE: ASBESTOS: CHRONIC HEALTH EFFECTS. 1978-APRIL
(CITATIONS FROM THE LIFE SCIENCES COLLECTION DATABASE)

DESCRIPTOR: *ASBESTOS; *ANNOTATED BIBLIOGRAPH
BIBLIOGRAPHIES; *CASE STUDIES; *HEALTH EFFECTS; *CHE
STUDIES; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 121P. PRICE CODE: PC N01/MF N01.
NO.: PB86-866332/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCE
LABORATORY AND CLINICAL STUDIES, AND CASE HISTORI
CHRONIC HEALTH EFFECTS RELATED TO ASBESTOS. TOPICS IN
DESCRIPTIONS OF DISEASE PROGRESSION, MORTALITY AND SUR
STUDIES, AND EPIDEMIOLOGICAL AND IMMUNOLOGICAL ASPEC
ASBESTOS-RELATED DISORDERS. SYNERGISTIC EFFECTS
CIGARETTE SMOKING ARE ALSO EXAMINED. (THIS UP
BIBLIOGRAPHY CONTAINS 301 CITATIONS, 41 OF WHICH AR
ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE,
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

NUMBER: EW013908

DATE: JAN 85

REPORT ON THE FEDERAL/STATE/LOCAL NONPOINT SOURCE FORCE AND RECOMMENDED NATIONAL NONPOINT SOURCE APPENDIX B.

*NONPOINT SOURCE POLLUTION; *POLICIES; *WATER QUALITY; *WATER POLLUTION CONTROL

NOTE: 231P. PRICE CODE: PC A11/MF A01. ORDER NO.: PB86-1911863/WEP

THE APPENDIX PRESENTS THE FULL TEXT OF AGENCY STRATEGIES DEVELOPED BY EACH FEDERAL AND SOME LOCAL AGENCIES PARTICIPATING ON THE FEDERAL/LOCAL NONPOINT SOURCE TASK FORCE. THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) CONVENED A FEDERAL/LOCAL NONPOINT SOURCE TASK FORCE IN MARCH 1984. ONE OF THE MANY AGENCIES INVOLVED IN MANAGING NONPOINT SOURCE (NPS) POLLUTION AND THE NEED FOR COORDINATION AMONG THESE AGENCIES. THE TASK FORCE DEVELOPED A RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND STRATEGIES TO CARRY OUT THE GOALS OF THE APPENDIX CONTAINS COPIES OF THESE IMPLEMENTATION STRATEGIES WHICH OUTLINE AGENCY-SPECIFIC ACTIVITIES TO BE FOLLOWED IN IMPLEMENTING THE NATIONAL NONPOINT SOURCE

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

NUMBER: EW013909

DATE: JAN 85

REPORT ON THE FEDERAL/STATE/LOCAL NONPOINT SOURCE FORCE AND RECOMMENDED NATIONAL NONPOINT SOURCE

*NONPOINT SOURCE POLLUTION; *POLICIES; *WATER QUALITY; *WATER POLLUTION CONTROL

NOTE: 58P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB86-195153/WEP

THE REPORT SUMMARIZES THE ACCOMPLISHMENTS OF THE FEDERAL/LOCAL NONPOINT SOURCE TASK FORCE. IN ONE OF THE MANY AGENCIES INVOLVED IN MANAGING NONPOINT SOURCE (NPS) POLLUTION AND THE NEED FOR COORDINATION AMONG THESE AGENCIES, THE U.S. ENVIRONMENTAL PROTECTION AGENCY CONVENED THE TASK FORCE IN MARCH 1984. THE TASK FORCE DEVELOPED A RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND IMPLEMENTATION STRATEGIES TO CARRY OUT THE GOALS OF THE APPENDIX. THE REPORT OF THE TASK FORCE PROVIDES A BRIEF SUMMARY OF THE NPS PROBLEM INCLUDING DEFINING NONPOINT SOURCE, THE NATURE AND SCOPE OF THE NPS PROBLEM; IT PROVIDES THE STEPS INVOLVED IN DEVELOPING AND IMPLEMENTING A NATIONAL NONPOINT SOURCE POLICY; AND IT CONTAINS A COPY OF THE RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND AGENCY IMPLEMENTATION STRATEGIES.

35

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013910

PUBLICATION DATE: DEC 85

TITLE: PRESSURE DOSED SEPTIC SYSTEMS: ELECTRIC COMPONENTS AND MAINTENANCE.

PERSONAL AUTHOR: HOUSE, C. H.; AND OTHERS

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; DESIGN; *ELECTRIC COMPONENTS; *MAINTENANCE; *OPERATIONS (WASTEWATER); PERFORMANCE EVALUATION; *PRESSURE SYSTEMS; *SEPTIC SYSTEMS; *SOIL; *PRESSURE DOSING; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENTS

DESCRIPTIVE NOTE: 35P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-191863/WEP

ABSTRACT: CONVENTIONAL SEPTIC SYSTEMS ARE SIMPLY AND INEXPENSIVE. RESEARCHERS HAVE DESIGNED SEVERAL ALTERNATIVE SYSTEMS FOR USE IN SOILS UNSUITABLE FOR CONVENTIONAL SEPTIC SYSTEMS. PRESSURE DOSING, THE MOST WIDELY USED SUCCESSFUL ALTERNATIVE TECHNIQUE IN NORTH CAROLINA, IMPROVES SEPTIC SYSTEM PERFORMANCE IN POOR SOILS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013911

PUBLICATION DATE: 84

TITLE: COST AND BENEFITS OF DRINKING WATER TREATMENT.

PERSONAL AUTHOR: CLARK, R. M.; AND OTHERS

DESCRIPTOR: *BENEFITS; COSTS; *DRINKING WATER; BENEFIT ANALYSIS; *HEALTH; *WATER TREATMENT

DESCRIPTIVE NOTE: 32P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-195153/WEP

ABSTRACT: THE ARTICLE DEVELOPS A FRAMEWORK FOR EVALUATING THE COSTS AND BENEFITS OF ENVIRONMENTAL CONTROL AND PREVENTIVE PUBLIC HEALTH PRACTICES AND ASKS THE RESEARCH QUESTION: HOW DO THE AUTHORS ACHIEVE THE BEST PROTECTION AGAINST INFECTIOUS DISEASE AND TOXIC CHEMICALS IN DRINKING WATER. COSTS AND BENEFITS OF CHLORINATION, FILTRATION, AND CARBON FILTRATION ARE ANALYZED RETROSPECTIVELY, AND THE RESULTS OF THE ANALYSIS ARE EXTENDED TO INCLUDE GRANULAR ACTIVATED CARBON FILTRATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

36

IRIS ACCESSION NUMBER: EW81
PUBLICATION DATE: JUN 86

**TITLE: AERIAL PHOTOGRAPHY;
COASTAL EROSION AND POLLU
FROM OCEANIC ABSTRACTS).**

**DESCRIPTOR: *AERIAL PHOTOGR
BIBLIOGRAPHIES; *COASTAL**

TECHNICAL REPORT # LABORATORY
(WASTEWATER); WASTEWATER TR

DESCRIPTIVE NOTE: 10P. PR
NO.: PB86-193885/WEP

ABSTRACT... SPONSORSHI
FEDERATION THE LABORATORY
AS OUTLINED IN THE 19
APHA/AWWA/WPCF STANDARD METH
AND WASTEWATER WAS SIMPL
LABORATORY PROCEDURES TASK
TREATMENT PLANT OPERATORS.
TREATMENT AND PRECIOUS

LEAGUE OF WOMEN VOTERS.
AVAILABILITY: NATIONAL TR
PORT ROYAL ROAD, SPRINGFIELD

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: SEP 86

WASTEWATER BIOLOGICAL PRO
THE SYSTEM PROVIDES ANALYT
PROCESSES, AND SAVES COSTS.

AVAILABILITY: WATER ENGINE

IRIS ACCESSION NUMBER: EW0

PUBLICATION DATE: SEP 86

TITLE: MODIFIED DITCH PR
EASE

**DESCRIPTOR: *DESIGN: *FAC
*OPERATIONS (WASTEWATER);
TREATMENT**

DESCRIPTIVE NOTE: 60-63P.

**ABSTRACT: DESCRIBED IS A
THAT PRODUCES IMPRESSIVE RE**

IRIS ACCESSION NUMBER: EW8
PUBLICATION DATE: FEB 86

TITLE: DEWATERING WASTEWATER
FREEZING: A BENCH-SCALE FE

PERSONAL AUTHOR: MOLAYEM,

DESCRIPTOR: *CLATHRATE FR
STUDIES; *FREEZING; *OPE
REPORTS; *SLUDGE; *SL
***WASTEWATER TREATMENT**

CENTER, 1200 CHAMBERS ROAD

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: OCT 86

TITLE: WESTERN WATER LAW

IRIS ACCESSION NUMBER: EWA
PUBLICATION DATE: OCT 86

TITLE: ARIZONA'S GROUNDWA

PERSONAL AUTHOR: FERRIS, I

DESCRIPTOR: *ARIZONA;
***LEGISLATION; *NATURAL**
CONSERVATION; *WATER REUSE
***WATER QUALITY**

DESCRIPTIVE NOTE: 79-84P.

***OPERATIONS (WASTEWATER);
DESCRIPTIVE NOTE: 24-27P.**

**ABSTRACT: THIS ARTICLE
OPERATION OF A SLUD
APPLICATIONS.**

AVAILABILITY: OPERATIONS

**DESCRIPTOR: *DESIGN;
*GROUNDWATER; *EQUIPMENT
*WATER QUALITY; *WATER WEL**

DESCRIPTIVE NOTE: 37-38P.

**ABSTRACT: PRESENTED ARE T
GROUND WATER SCIENTISTS AN
EXPERIENCE RELATED TO M
DESIGNED, MATERIALS USED,**

AVAILABILITY: GROUND WATE

PERSONAL AUTHOR: FALCE, D.
DESCRIPTOR: *BACTERIA;
***HOSPITALS; *HOT WATER; *W**

DESCRIPTIVE NOTE: 36-37P.

ABSTRACT: A CHLORINE IN
DANGEROUS BACTERIAL CO
HOSPITAL'S HOT WATER SUPPL

**ABSTRACT: THIS PUBLICATION
WASTE ELIMINATION OR RE
SEVERAL INDUSTRIES INCLU
BEVERAGE, (3) PLATING, (4)
TEXTILES AND (7) PULP AND**

**AVAILABILITY: LEWIS PUB
STREET, P.O. DRAWER 519, C**

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: JUL 86

CONTROL. POLLUTION TECHNO

PERSONAL AUTHOR: BOYLE, W

**DESCRIPTOR: *AERATION
*MAINTENANCE; *OPERATIO
EVALUATION; *TESTING; *WAS**

DESCRIPTIVE NOTE: 452P.

IRIS ACCESSION NUMBER: EW87
PUBLICATION DATE: DEC 85

TITLE: GREAT LAKES ENVIRONMENTAL
ANNUAL REPORT FY 1985.

DESCRIPTOR: *LAKES; *GREAT LAKES
***ENVIRONMENTAL SYSTEMS; *ENVIRONMENTAL**
REPORTS; *METEOROLOGY; *RIVER
QUALITY

DESCRIPTIVE NOTE: 55P.

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: 86

TITLE: GROUNDWATER ENGINE

PERSONAL AUTHOR: KASHEF,

PERSONAL AUTHOR: KASHEF,

**AVAILABILITY: FRESHWATER
BOX 98, NAVARRE, MN 55392**

IRIS ACCESSION NUMBER: EW.

PUBLICATION DATE: 86

TITLE: HUMAN ACTIVITY AND

**DESCRIPTOR: *CANADA; D.
ECONOMICS; *HUMAN ACTIVITY
MATERIALS; STATISTICS**

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: OCT 86

**TITLE: MICROCOMPUTERS AND
DECISION MAKERS.**

PERSONAL AUTHOR: HEIDTKE,

IRIS ACCESSION NUMBER: EW
PUBLICATION DATE: OCT 86

TITLE: EPA DESIGN INFORM
INSTRUMENTATION.

DESCRIPTOR: *EQUIPMENT; *P
EVALUATION; *MEASUREMENT
(WASTEWATER); *SELECTION; *

DESCRIPTIVE NOTE: 1005-100

ABSTRACT: THIS ARTICLE PR
SELECTION AND PROPER APPL

**DESCRIPTIVE NOTE: 536P.
OUTSIDE USA.**

**ABSTRACT: THIS PUBLICA
INFORMATION ON MANAGEMENT
INFORMATION IS INCLUD
MANAGEMENT, TRANSPORTATIO
PROCEDURES.**

PRESERVATION. A PROGNOS
WATERWAYS, POWER STATIONS
PROVIDED AS IS A 600
ABBREVIATIONS AND TERMS IN

AVAILABILITY: HALSTEAD PR
SONS, 605 THIRD AVENUE, NEW

IRIS ACCESSION NUMBER: EW8

PUBLICATION DATE: 85

IRIS ACCESSION NUMBER: EWA
PUBLICATION DATE: 86

TITLE: TREATMENT EFFICIENCY
SLUDGE PROCESS CONTROL

PERSONAL AUTHOR: ARTHUR, F

DESCRIPTOR: *ACTIVATED S

DESCRIPTIVE NOTE: 126P. AVAILABLE.

ABSTRACT: THIS DIRECTORY REDUCING COSTS. THE BROAD THERMAL PERFORMANCE/SOLAR AIR CONDITIONING, AND L. ACCOUNTING; AND MISCELLANEOUS MANAGEMENT, ECONOMICS, ET AL. TITLE, DESCRIPTION, TYPE, MINIMUM HARDWARE REQUIREMENTS, COSTS, AND CONTACT PERSON.

AVAILABILITY: BUREAU OF UNIVERSITY OF OREGON P O

STREET, ALEXANDRIA, VA . 2

IRIS ACCESSION NUMBER: E

PUBLICATION DATE: 86

TITLE: HANDBOOK OF CHLOR

**ABSTRACT: GROUNDWATER CO
NATIONAL PROBLEM. DESCR
CREATE PROBLEMS, TREAT
REDUCING PROBLEMS.**

AVAILABILITY: AMERICAN CI

IRIS ACCESSION NUMBER: EW

PUBLICATION DATE: NOV 86

TITLE: WATER SYSTEMS STAN

WASTEWATER TREATMENT STA
MODIFICATION OF THEIR S
SLUDGE DIGESTERS.

AVAILABILITY: PUBLIC WORK

DEVELOPMENT PROGRAMME AN
HISTORY, TECHNOLOGY, A
DIGESTION. THIS REPORT SU
STATUS AND PRACTICE OF
COUNTRIES AND PROVIDES
PRACTICAL DATA FOR BUILDIN

AVAILABILITY: THE WORLD
20013

IRIS ACCESSION NUMBER: EW.

PUBLICATION DATE: 86

APPLICATIONS; *COMPU
*MICROCOMPUTERS; *OPERAT
UTILITIES; *WATER TREATME

DESCRIPTIVE NOTE: 200P.
NONMEMBERS

ABSTRACT: THIS PUBLICAT
COMPUTERS WORK, USES F
MAKE A JOB EASIER. SECT

**WATER; *OPERATIONS (WATER
*WATER TREATMENT**

**DESCRIPTIVE NOTE: 768P.
NONMEMBERS.**

**ABSTRACT: MORE THAN 50 PA
TECHNOLOGY ARE INCLUDED IN
WATER QUALITY TECHNOLOGY CO
(1) ISOLATION OF LEGIONE
WATER AND WHIRLPOOL BATH
ANALYSIS; (3) COMPUTER WA
ON STANDARD METHODS 17TH
FORMAZIN AS A TURBIDITY S
AND CONTROL LEAD LEVELS IN**

**AVAILABILITY: BUTTERWORTH
STONEHAM, MA 02188**

IRIS ACCESSION NUMBER: EWA

PUBLICATION DATE: 85

DESCRIPTIVE NOTE: 207P. F

**ABSTRACT: THIS BOOK IS INT
CONTAINING PRACTICAL IM
PREVENTING VARIOUS PROBLEMS
WITH HVAC EQUIPMENT AND
INCLUDE WATER TREATMENT JU
SYSTEMS, ALGAECIDES/BIOCID
TREATMENT, CHEMICAL S
SPECIFICATIONS FOR EXISTI
EMPHASIS IS ON PRACTI
ILLUSTRATIONS AND REFERENCE**

**AVAILABILITY: MCGRAW-HILL
AMERICAS NEW YORK NY 100**

DESCRIPTIVE NOTE: PRICE: \$
ABSTRACT: THIS THIRD ED
CONFORM TO THE 16TH EDIT
SECTION ON MICROBIOLOGY A
REPORTING WORKSHEETS ARE INC

AVAILABILITY: WCPF, 2620
WASHINGTON, DC 20037

ERIC
Full Text Provided by ERIC
ARIS ACCESSION NUMBER: EW0

PERSONAL AUTHOR: SORG, T

**DESCRIPTOR: *DRINKING
*PLUMBING; *WATER PIP
QUALITY; *WATER TREATMENT**

DESCRIPTIVE NOTE: 182P.

**ABSTRACT: A REVIEW OF
PLUMBING MATERIALS ARE
INCLUDE PLASTIC PIPING
METALLIC PLUMBING MATERI.
OR WATER QUALITY ADJUS**



**POSTAL STATION "L", 473 C
CANADA**

IRIS ACCESSION NUMBER: EW

**ABSTRACT: THIS PUBLICATION
MAINTAINING AND IMPROVING
PROCEDURES FOR IDENTIFYING
ORGANISMS, CASE HISTORIES
OF VARIOUS TYPES, AND RESEARCH
ORGANISM IDENTIFICATION.**

**AVAILABILITY: RIDGELINE
LAYFAYETTE, CA 94549**

IRIS ACCESSION NUMBER: E

IRIS ACCESSION NUMBER: EV

PUBLICATION DATE: 81

TITLE: FERTIGATION.

DESCRIPTOR: *AUDIOVISUAL

PLANT WATER REQUIREMENTS
IRRIGATION CONTROL SE
PRINCIPLES AND A PRACTIC
TESTING. ALSO DEMONSTRATE
HYDRAULIC PRESS FOR THE EST
THIS PRESS DOES NOT REQ
SOURCE. THE MEASUREMENTS
GROWTH STAGES SHOULD PR
WATER STATUS AND CAN PE
INFORMATION FOR IMPROV
CONSEQUENTLY, INCREASING
TAPE IS AVAILABLE IN ENGLIS

SUSPENDED SOLIDS ENTERING THE FILTER PLAY A KEY-
GENERAL PERFORMANCE; THIS EMPHASIZES THE IMPORTANCE
THE PRIMARY TREATMENT IN DETERMINING FINAL EFFLUENT

Y: JOURNAL WATER POLLUTION CONTROL FEDERATION,

ION NUMBER: EW014134

DATE: NOV 86

RATIONS OF AIR DRIVE ROTATING BIOLOGICAL

THOR: SACK, W. A.; AND OTHERS

*AERATION; *BIOLOGICAL CONTACTORS; *EQUIPMENT;
(WASTEWATER); *PERFORMANCE EVALUATION; *ROTATING
CONTACTORS; *WASTEWATER TREATMENT

NOTE: 1050-1056P.

TWO CAUSES OF SLOW AND UNEVEN SHAFT ROTATION WERE
WATER TEMPERATURES AND LOW AIR RATES; SEVERAL
MEASURES WERE DETERMINED.

Y: JOURNAL WATER POLLUTION CONTROL FEDERATION;

ION NUMBER: EW014135

DATE: NOV 86

CESS CONTROL FUNDAMENTALS-PART VI: MICROSCOPIC
OF ACTIVATED SLUDGE AND CONTROL OF AERATION

THOR: HOBSON, TIM

*ACTIVATED SLUDGE; *AERATION RATES; *ANALYTICAL
*BIOLOGICAL INDICATORS; *MICROBIOLOGY;
(WASTEWATER); *PROCESS CONTROL; *WASTEWATER

NOTE: 22-27P.

THIS ARTICLE DESCRIBES THE EVALUATION OF THE
SLUDGE PROCESS AND CONTROL OF AERATION RATES BY
THE MIXED LIQUOR FOR MICROORGANISMS.

Y: OPERATIONS FORUM; V3 N11

ION NUMBER: EW014136

DATE: NOV 86

IAL REPORT: TREATMENT OF HAZARDOUS WASTES.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *CHEMICAL TREATMENT; *HAZARDOUS MA
*HAZARDOUS WASTES; *MICROBIAL DEGRADATION; *OP
(WASTES); *OXIDATION; *THERMAL TREATMENT; *TEC
*WASTE TREATMENT

DESCRIPTIVE NOTE: 29-44P.

ABSTRACT: THIS ARTICLE PROVIDES INFORMATION ON A VA
APPROACHES FOR TREATING HAZARDOUS WASTES. THE PROCES
DESCRIBED AND POLLUTANTS THAT CAN BE TREATED BY EACH
PROCESSES ARE INDICATED.

AVAILABILITY: POLLUTION ENGINEERING; V18 N11

IRIS ACCESSION NUMBER: EW014137

PUBLICATION DATE: NOV 86

TITLE: TEAM DEVELOPMENT FOR HIGH PERFORMANCE MANAGE

PERSONAL AUTHOR: SCHEREMERHORN, JOHN R., JR.

DESCRIPTOR: *MANAGEMENT; *MOTIVATION; *PER
EVALUATION; *PERSONNEL; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 38-41P.

ABSTRACT: FOR HIGH LEVELS OF INDIVIDUAL WORK PERFORM
BE ACHIEVED, PEOPLE MUST HAVE THE RIGHT ABILITIES, S
AND BE MOTIVATED. SOME PROCEDURES FOR IMPROVING PER
ARE PRESENTED.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V40

IRIS ACCESSION NUMBER: EW014138

PUBLICATION DATE: 85

TITLE: MASTERPLAN FOR RURAL WATER SUPPLY AND SANITA
THAILAND: FINAL REPORT.

DESCRIPTOR: *PLANNING; *RURAL AREAS; *SANITATION;
SUPPLY; *THAILAND

DESCRIPTIVE NOTE: 134P.

ABSTRACT: THIS IS THE FINAL REPORT OF A FOUR VOLUME
THE REPORT PRESENTS A COMPREHENSIVE SURVEY OF THE
WATER SUPPLY AND SANITATION SITUATION OF THE RURAL A
THAILAND, ANALYSIS OF THE CAUSES OF THE CURRENT PROBL
RECOMMENDATIONS TO ACHIEVE THE PHYSICAL TARGETS, OBJ
AND GOALS. STUDIES WERE MADE ON THE PHYSICAL, DEMOG
SOCIO-ECONOMIC, HEALTH AND SECTORAL INSTITUTION BAC
OF THE PROGRAM AREA, AND THE EXISTING CONDITIONS
RURAL WATER SUPPLY AND SANITATION SECTORS, BASED
FINDINGS AND ANALYSIS OF THE CURRENT SITUATION, TH
WATER SUPPLY AND SANITATION MASTERPLAN IS PROPOSE
INCLUDES RECOMMENDATIONS ON THE INSTITUTIONAL A

REQUIREMENTS AND INFORMATION DISSEMINATION. THE
INCLUDES THE PROJECT MANAGEMENT INFORMATION
INCORPORATES THE ESTABLISHMENT OF A DATABASE FOR
AND THE MONITORING AND EVALUATION OF THE PROGRAM.
139, Ø14 14Ø, AND Ø14 141 FOR OTHER VOLUMES OF

: ENSIC, AIT, P.O. BOX 2754, BANGKOK 1Ø5Ø1

ON NUMBER: EWØ14139

DATE: 85

ERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN
INAL REPORT, MAIN TEXT.

*PLANNING; *RURAL AREAS; *SANITATION;
WATER SUPPLY

NOTE: 331P.

HIS IS THE MAIN TEXT OF A FOUR VOLUME REPORT.
38, Ø14 14Ø, AND Ø14 141 FOR OTHER PARTS.

: ENSIC, AIT, PO BOX 2754, BANGKOK 1Ø5Ø1.

ON NUMBER: EVØ1414Ø

DATE: 85

ERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN
INAL REPORT, COMPUTER-BASED INFORMATION SYSTEM.

*PLANNING; *RURAL AREAS; *SANITATION;
WATER SUPPLY

NOTE: 27P.

HIS IS THE COMPUTER BASED INFORMATION, ONE
FOUR VOLUME REPORT. SE EW Ø14 138, Ø14 139, AND
OTHER PARTS.

: ENSIC, AIT, P.O. BOX 2754, BANGKOK 1Ø5Ø1.

ON NUMBER: EWØ14141

DATE: 85

ERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN
INAL REPORT, APPENDICES.

*PLANNING; *RURAL AREAS; *SANITATION;
WATER SUPPLY

NOTE: 2ØP.

ABSTRACT: THIS IS THE APPENDICES, ONE VOLUME OF
VOLUME REPORT. SEE EW Ø14 138, Ø14 139, Ø14 14Ø FC
PARTS.

AVAILABILITY: ENSIC, AIT, P.O. BOX 2754, BANGKOK
THAILAND

IRIS ACCESSION NUMBER: EWØ14142

TITLE: BASICS OF WELL CONSTRUCTION. OPERATOR'S GUID

DESCRIPTOR: *CONSTRUCTION; *DESIGN; *DRINKING
*GUIDES; *OPERATIONS (WATER); *INSTRUCTIONAL MAT
*WATER WELLS; *WELLS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: \$4.5Ø FOR AWWA MEMBERS, \$5
NONMEMBERS

ABSTRACT: THIS GUIDE CONSIDERS WELL DEVELOPMENT,
DESIGN, WELL DIAMETER AND SITING, AND AQUIFER AND HY
CHARACTERISTICS.

AVAILABILITY: AMERICAN WATER ASSOCIATION, COMPUTER S
DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 8Ø23

IRIS ACCESSION NUMBER: EWØ14143

TITLE: BASICS OF WELL CONSTRUCTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *
*INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *WATER
*WELLS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: \$5Ø.ØØ FOR AWWA MEMBERS,
FOR NONMEMBERS

ABSTRACT: THIS TRAINING PACKAGE CONSIDERS WELL DEVEL
INTAKE DESIGN, WELL DIAMETER AND SITING, AND AQUI
HYDRAULIC CHARACTERISTICS. INCLUDED ARE 25 SLIDES,
HANDOUTS, AND COURSE AND DISCUSSION GUIDES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION. C
SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENV
8Ø235

IRIS ACCESSION NUMBER: EWØ14144

TITLE: PUMPS-OPERATION AND MAINTENANCE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *EQUIPMENT; *INSTRU
MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER);
*TRAINING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: \$115.ØØ FOR INSTR
MATERIALS, \$25.ØØ FOR STUDENT WORKBOOK

ABSTRACT: THIS TRAINING PACKAGE FOCUSES ON THE OP
AND CONTROL OF PUMPS FOR WASTEWATER TREATMENT

CONSIDERED ARE (1) PUMP
(3) CENTRIFUGAL PUMPS, AND
INCLUDED IN THE INSTRUCT
TAPES, PROGRAM ADMINISTRATO

AVAILABILITY: WATER POLLUT
ST. ALEXANDRIA, VA 22314-1

**PRODUCTION-BASED CATEGORY
CONTRACT, OR SIMILAR MECHANISM
TO USE THE COMBINED
DEFINITIONS AND EXAMPLES.**

**AVAILABILITY: ENVIRONMENTAL
CENTER, 1200 CHAMBERS ROAD,**

IRIS ACCESSION NUMBER: EW0

**TITLE: TOUCHING ALL THE
HANDBOOK FOR YOUR WASTEWATER**

FUTURE CONTAMINATION. THIS PUBLICATION WAS ASSIST LOCAL GOVERNMENT OFFICIALS AND THEIR STAFFS. THE REFERENCE BOOK DESCRIBES THE POTENTIAL PUBLIC HEALTH AND GROUND-WATER SUPPLIES FROM THE USE OF MALFUNCTIONING, IMPROPERLY MAINTAINED, OR DEFECTIVE SEPTIC SYSTEMS, AND OFFERS IDEAS FOR IMPROVING SEPTIC SYSTEM MANAGEMENT PROGRAMS. A BRIEF OVERVIEW ENTITLED "SEPTIC SYSTEMS AND GROUND-WATER: AN EXECUTIVE'S GUIDE" ALSO IS AVAILABLE (EW 014). THIS GUIDE PROVIDES A QUICK DESCRIPTION OF THE RELATIONSHIP BETWEEN SEPTIC SYSTEM USE AND GROUND-WATER CONTAMINATION, AND DISCUSSES THE MAIN POINTS DISCUSSED IN THE "PROGRAM GUIDE AND REFERENCE BOOK".

BY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
120 J CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

ION NUMBER: EW014159

DATE: JUL 86

SEPTIC SYSTEMS AND GROUND-WATER PROTECTION. AN EXECUTIVE'S GUIDE.

*CONTAMINATION; *GROUNDWATER; *MANAGEMENT; *PUBLIC HEALTH; *ON-SITE DISPOSAL; *ON-SITE WASTEWATER; *SEPTIC TANKS; *SEPTIC SYSTEMS; *WASTEWATER; *WATER POLLUTION CONTROL; *WATER QUALITY; *TECHNOLOGY; *RURAL AREAS

NOTE: 16P. PRICE: \$1.96
THIS IS A BRIEF OVERVIEW (EXECUTIVE'S GUIDE) TO THE RELATIONSHIP BETWEEN SEPTIC SYSTEM USE AND GROUNDWATER CONTAMINATION AND DISCUSSES IMPORTANT IDEAS FOR MAKING IMPROVEMENTS IN SEPTIC SYSTEM MANAGEMENT PROGRAMS.

BY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
120 J CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

ION NUMBER: EW014160

DATE: OCT 86

COMBINED SEWER OVERFLOW ANALYSIS METHODOLOGY.

*ANALYTICAL TECHNIQUES; *CONTROL OPTIONS; *SEWERS; *COMBINED SEWER OVERFLOW; *OVERFLOW; *WASTEWATER COLLECTION; *WATER QUALITY; *WASTEWATER POLLUTION CONTROL

NOTE: 112P. PRICE: \$7.72

THE PURPOSE OF THIS REPORT IS TO PROVIDE ENVIRONMENTAL ENGINEERS AND PLANNERS WITH A SYSTEMATIC APPROACH TO ASSESSING WATER QUALITY IMPACTS FROM COMBINED SEWER FLOWS (CSOS) AND FOR EVALUATING THE EFFECT OF CONTROL MEASURES. THIS METHODOLOGY IS PRESENTED TOGETHER WITH CASE STUDIES AND DISCUSSION DESIGNED TO PROVIDE THE USER

WITH THE INFORMATION NECESSARY TO ACCOMPLISH THE FOLLOWING: (1) MAKE A PRELIMINARY ASSESSMENT OF THE RELATIVE IMPORTANCE OF CSOS ON A RECEIVING WATER; (2) IDENTIFY FEASIBLE CONTROL ALTERNATIVES; AND (3) MAKE EFFECTIVE USE OF AVAILABLE SPECIFIC DATA AND PUBLISHED LITERATURE VALUES, AND AVOID COSTLY AND TIME CONSUMING FIELD STUDIES IN SOME INSTANCES. THIS DOCUMENT IS NOT INTENDED TO PRESENT A COMPREHENSIVE METHOD OF WATER QUALITY ANALYSIS. ITS OBJECTIVE IS TO PROVIDE A PROCEDURE TO ACCOMPLISH THE FIRST STEP OF IDENTIFYING THE NATURE AND SIGNIFICANCE OF CSOS IMPACTS ON RECEIVING WATER, AND FOR SCREENING CONTROL ALTERNATIVES. IN SOME INSTANCES, USE OF THESE PROCEDURES MAY YIELD SUFFICIENT INFORMATION TO SELECT AN APPROPRIATE CONTROL STRATEGY. HOWEVER, THIS DOCUMENT DOES NOT PROVIDE A COMPREHENSIVE OVERVIEW OF DETERMINISTIC WATER QUALITY MODELS OR TREATMENT TECHNOLOGIES. IT IS EXPECTED THAT IN MOST CASES, A DETAILED ANALYSIS AND A MORE IN-DEPTH ASSESSMENT OF AVAILABLE TREATMENT TECHNOLOGIES WILL BE REQUIRED. IF A SUBSTANTIAL INVESTMENT IS MADE IN ADDRESSING CSOS PROBLEMS, REFERENCES ARE PROVIDED TO DIRECT THE USER TO SOURCE INFORMATION FOR THE MORE DETAILED AND COMPREHENSIVE PROCEDURES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 120 J CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212



AUTHOR INDEX

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ACKMAN, R. G.
EW 013 954

ADAMS, DONALD D.
EW 014 090

AMBROSE, WALLACE A.
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EW 013 949

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EW 014 011

LINNE MANN, STEPHEN M.
EW 013 929

LOMBARDO, PIO
EW 013 930



***ACCIDENT PREVENTION**

***ACCOUNTABILITY**

***ACCOUNTING**

***ACID DEPOSITION**

 ***ACID PRECIPITATION**

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***BIOLOGICAL EFFECTS**

***BIOLOGICAL INDICATORS**

***BIOLOGICAL PROCESSES**

***BIOLOGY**

***CHLORINE**

***CHLORINE DIOXIDE**

***CITIZEN ACTION**

***CLATHRATE FREEZING**

***CLAY LINERS**

***CLEANING TECHNOLOGY**

***CLEANUP**

***CONSERVATION
CONSERVATION**

***CONSTRUCTION**

***CONSTRUCTION GRANTS**

CONSTRUCTION INDUSTRY

*DECISION MAKING

*DELAWARE

DEMOGRAPHY

*DESALINATION

*DESIGN

DESIGN

ERIC
Full Text Provided by ERIC
*DEVELOPING COUNTRIES



*EMERGENCY RESPONSE
*EMERGENCY RESPONSE SYS

*EMPLOYEE EVALUATION

*EMPLOYEES

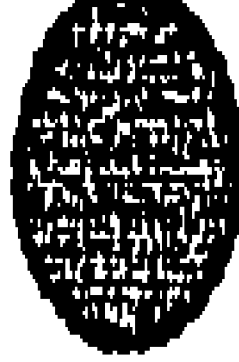
***FACILITIES**

FACILITIES

***FACILITY EXPANSION**

***FACILITY MODIFICATION**

***FAUCETS**



***FREEZING**

***FUELS**

***GEOLOGICAL CONCEPTS**

***GEOGRAPHY**

***HUMAN ACTIVITY**

***HUMAN ECOLOGY**

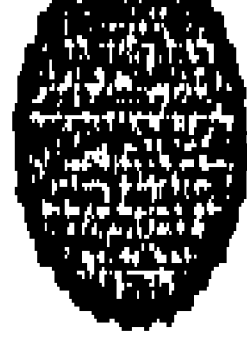
***HUMAN RESOURCE DEVELOPMENT**

***HUMAN RESOURCES DEVELOPMENT**

***HVAC EQUIPMENT**

***HVAC SYSTEMS**

***HYDRAULICS**



*** INNOVATIONS**

*** INNOVATIVE TECHNOLOGY**

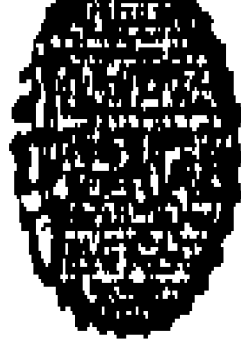
*** INSPECTION**

*** INSTITUTIONS**

***MAINTENANCE**

MAINTENANCE

***MANAGEMENT**



***MONITORING WELLS**

MONTANA

***MOTIVATION**

***ORGANIC CHEMICALS**

ORGANIC SOLVENTS

***OVERFLOW**

***OXIDATION**

***OXIDATION DITCHES**



***POLLUTION**

***POLLUTION CONTROL**

***POLLUTION PREVENTION**

***POLYETHYLENE COVERING**

***RATES**

***RAW SLUDGE**

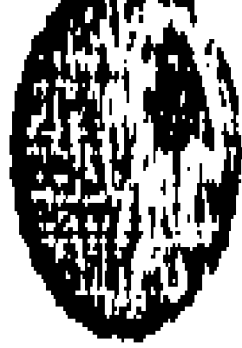
***RCRA**

***READINGS**

***RECLAIMED WASTEWATER**

***RECLAMATION**

***RECOMBINANT DNA**



***SAFETY
SAFETY**

***SALINITY**

SALTWATER INTRUSION

CTIONS	(2)	EW013934	EW013990					
	(1)	EW014027						
ELOPMENT	(5)	EW013922	EW013923	EW013924	EW014011	EW014137		
	(3)	EW014039	EW014153	EW014157				
E	(1)	EW013997						
	(1)	EW013999						
S	(1)	EW014073						
S	(1)	EW013998						
	(1)	EW014021						
PORTS	(1)	EW014130						
USTRY	(1)	EW014157						
ANKS	(3)	EW013905	EW013961	EW013993				
R	(1)	EW014066						
UNOFF	(1)	EW013167						
	(3)	EW013921	EW013959	EW014039				
	(1)	EW014073						
	(1)	EW013905						
INFORMATION CENTERS	(1)	EW014109						
Y	(19)	EW013936	EW013937	EW013938	EW013961	EW013972	EW013974	EW013974
		EW014018	EW014021	EW014064	EW014065	EW014067	EW014080	EW014083
		EW014136	EW014157	EW014158	EW014159			
Y	(2)	EW013925	EW014012					
ERS	(1)	EW014123						
	(1)	EW013975						
	(1)	EW014132						
	(1)	EW013970						
	(4)	EW014138	EW014139	EW014140	EW014141			
TREATMENT	(1)	EW014136						
	(1)	EW014033						
	(1)	EW013994						
	(1)	EW014061						
STANCES	(10)	EW013892	EW013904	EW013915	EW013918	EW013919	EW013920	EW013920
		EW014020	EW014023	EW014116				
	(5)	EW013921	EW013928	EW014001	EW014137	EW014144		

DIRECTORS	(1)	EWØ13921							
NEEDS	(1)	EWØ13928							
TATION	(2)	EWØ14Ø14	EWØ14Ø88						
T TECHNOLOGY	(1)	EWØ14153							
G	(1)	EWØ14Ø68							
ARTING	(1)	EWØ13953							
G FILTERS	(4)	EWØ13941	EWØ13997	EWØ13999	EWØ14119				
ETHANE	(2)	EWØ13932	EWØ14133						
HOOTING	(1)	EWØ13994							
Y	(2)	EWØ1399Ø	EWØ14Ø15						
	(1)	EWØ14Ø84							
TRATION	(1)	EWØ14Ø67							
ND STORAGE TANKS	(1)	EWØ13961							
INGDOM	(1)	EWØ14Ø88							
EAS	(2)	EWØ14Ø66	EWØ14Ø86						
RGES	(4)	EWØ13938	EWØ1394Ø	EWØ14152	EWØ14153				
LOGICAL SURVEY	(1)	EWØ1393Ø							
	(1)	EWØ14119							
S	(2)	EWØ13927	EWØ13944						
	(3)	EWØ14Ø69	EWØ14Ø79	EWØ14115					
CS	(1)	EWØ14Ø36							
PES	(1)	EWØ13925							
RY	(5)	EWØ1412Ø	EWØ14121	EWØ14122	EWØ14123	EWØ14124			
LLECTOR	(1)	EWØ14Ø33							
SPOSAL	(1)	EWØ14Ø17							
	(2Ø)	EWØ13881	EWØ13887	EWØ1389Ø	EWØ13898	EWØ13899	EWØ139ØØ		
		EWØ13931	EWØ13939	EWØ13979	EWØ14Ø15	EWØ14Ø17	EWØ14Ø2Ø	EWØ14Ø23	
		EWØ14Ø35	EWØ14Ø76	EWØ14Ø88	EWØ14Ø99	EWØ1411Ø			
SPOSAL	(1)	EWØ13913							
MANAGEMENT	(5)	EWØ13881	EWØ13895	EWØ139Ø6	EWØ1397Ø	EWØ13973			
DUCTION	(3)	EWØ13884	EWØ1397Ø	EWØ14Ø76					

DUCTION	(1)	EW013882							
	(4)	EW013881	EW013895	EW013898	EW013899				
ORAGE	(4)	EW013881	EW013887	EW013905	EW013906				
ORAGE	(1)	EW013979							
ANSPORT	(1)	EW013788							
EATMENT	(4)	EW013881	EW013890	EW014020	EW014136				
EATMENT	(1)	EW013979							
ER	(2)	EW013969	EW014099						
ER COLLECTION	(7)	EW013933	EW013949	EW014003	EW014022	EW014023	EW014066		
ER FLOW	(1)	EW014003							
ER PRETREATMENT	(1)	EW014157							
ER REUSE	(1)	EW014065							
ER STORAGE	(1)	EW014160							
ER TREATMENT	(67)	EW013808	EW013889	EW013890	EW013891	EW013893	EW013897		
		EW013916	EW013926	EW013927	EW013929	EW013930	EW013931	EW013932	
		EW013937	EW013938	EW013939	EW013940	EW013950	EW013951	EW013952	
		EW013964	EW013968	EW013971	EW013974	EW013975	EW014001	EW014002	
		EW014005	EW014006	EW014007	EW014008	EW014009	EW014010	EW014015	
		EW014024	EW014034	EW014037	EW014058	EW014059	EW014065	EW014066	
		EW014080	EW014089	EW014092	EW014096	EW014097	EW014099	EW014113	
		EW014131	EW014132	EW014133	EW014134	EW014135	EW014144	EW014152	
		EW014155	EW014157	EW014158	EW014159				
	(1)	EW013999							
LOCATION	(1)	EW013944							
NSERVATION	(6)	EW013946	EW013947	EW013969	EW013997	EW014123	EW014124		
TRIBUTION	(13)	EW013917	EW013956	EW013962	EW013963	EW013965	EW013966		
		EW013978	EW013995	EW014039	EW014040	EW014070	EW014094		
OW	(2)	EW013788	EW014040						
DUSTRY	(1)	EW014079							
W	(2)	EW013941	EW013944						
TERS	(2)	EW013978	EW014041						
PES	(6)	EW013917	EW013900	EW013977	EW014040	EW014070	EW014094		
LLUTION	(1)	EW013915							
LLUTION CONTROL	(16)	EW013908	EW013909	EW013912	EW013976	EW013982	EW013987		
		EW013991	EW014026	EW014060	EW014095	EW014097	EW014157	EW014158	
		EW014160							

ALITY	(36)	EWØ13886	EWØ13888	EWØ139ØØ	EWØ139Ø9	EWØ13917	EWØ13946
		EWØ13949	EWØ13959	EWØ13966	EWØ13967	EWØ13977	EWØ13982
		EWØ13995	EWØ14ØØ4	EWØ14Ø18	EWØ14Ø19	EWØ14Ø29	EWØ14Ø75
		EWØ14Ø82	EWØ14Ø94	EWØ14Ø97	EWØ1411Ø	EWØ14112	EWØ1412Ø
		EWØ14131	EWØ14157	EWØ14158	EWØ14159	EWØ1416Ø	
ALITY	(3)	EWØ13976	EWØ14Ø71	EWØ14Ø93			
TES	(1)	EWØ14Ø72					
SOURCES	(36)	EWØ13941	EWØ13942	EWØ13943	EWØ13944	EWØ13945	EWØ13946
		EWØ13969	EWØ1398Ø	EWØ13982	EWØ13991	EWØ13992	EWØ13997
		EWØ14Ø13	EWØ14Ø18	EWØ14Ø21	EWØ14Ø29	EWØ14Ø38	EWØ14Ø6Ø
		EWØ14Ø78	EWØ14Ø82	EWØ14Ø83	EWØ14Ø95	EWØ14111	EWØ14119
		EWØ14121	EWØ14122	EWØ14124	EWØ14142	EWØ14143	
SOURCES	(1)	EWØ13976					
USE	(7)	EWØ13946	EWØ13947	EWØ13969	EWØ14Ø83	EWØ14129	EWØ14131
GHTS	(2)	EWØ13942	EWØ13943				
DS	(1)	EWØ13949					
PLY	(41)	EWØ13917	EWØ13941	EWØ13942	EWØ13943	EWØ13944	EWØ13946
		EWØ13978	EWØ13991	EWØ13992	EWØ13997	EWØ14Ø12	EWØ14Ø13
		EWØ14Ø29	EWØ14Ø37	EWØ14Ø63	EWØ14Ø66	EWØ14Ø72	EWØ14Ø75
		EWØ14Ø83	EWØ14Ø95	EWØ14112	EWØ14119	EWØ1412Ø	EWØ14121
		EWØ14124	EWØ14129	EWØ14131	EWØ14132	EWØ14138	EWØ14139
		EWØ14142	EWØ14143				EWØ1414Ø
PLY	(2)	EWØ14Ø71	EWØ14155				
STEMS	(1)	EWØ14Ø85					
EATMENT	(3Ø)	EWØ13894	EWØ13896	EWØ139Ø1	EWØ139Ø2	EWØ13911	EWØ13928
		EWØ13966	EWØ13971	EWØ13974	EWØ13976	EWØ1399Ø	EWØ13995
		EWØ14Ø34	EWØ14Ø38	EWØ14Ø39	EWØ14Ø42	EWØ14Ø66	EWØ14Ø67
		EWØ14Ø75	EWØ14Ø84	EWØ14Ø85	EWØ14Ø94	EWØ14Ø95	EWØ14Ø96
EATMENT	(1)	EWØ14Ø71					
	(3)	EWØ13941	EWØ13944	EWØ14119			
LITIES	(1)	EWØ14Ø69					
LS	(7)	EWØ13959	EWØ1396Ø	EWØ13991	EWØ14Ø13	EWØ14111	EWØ14142
	(3)	EWØ14111	EWØ14142	EWØ14143			
	(1)	EWØ13999					
RDS	(1)	EWØ14146					
BLEMS	(4)	EWØ14Ø19	EWØ14Ø25	EWØ14Ø37	EWØ14Ø91		
	(2)	EWØ13918	EWØ13919				