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IDENTIFIERS Environmental Quality

ABSTRACT

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. 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. Each entry in the resume section of this document provides, where appropriate: (1) the title; (2) the publication date; (3) the name(s) of the author(s); (4) a set of descriptors assigned to the entry for the purpose of indexing; (5) the number of pages; (6) an abstract describing the entry; and (7) where the complete document is available. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials which meet general or highly specific requirements of their programs. Supplements to this publication will be issued periodically. (TW)

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ED284752

Prepared by

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

WATER QUALITY INSTRUCTIONAL
RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts Related to
Environmental Quality Resource Materials
With Emphasis on Water Quality

Supplement 30, 1987

SE048297

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

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Robert H. Howe

Howe

July, 1987

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

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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 a 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 1985 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 \$0.06 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

w to Use the Compilation

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: MF01 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.

. 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: EW013510
PUBLICATION DATE: DEC 86

PERSONAL COMPUTERS AND DATA COMMUNICATIONS.

AUTHOR: CHORAFAS, DIMITRIS N.

*COMPUTERS; *COMPUTING; *COMPUTER APPLICATIONS;
*SYSTEMS; *INSTRUCTIONAL MATERIALS;
*PERSONAL COMPUTERS; *MANAGEMENT

NOTE: 341P. PRICE: \$19.95

THIS TEXT PROVIDES THE INFORMATION NEEDED TO USE TECHNOLOGY EFFECTIVELY. IT COVERS THE USE OF COMPUTERS, MICROCOMPUTERS, TERMINALS, AND THE USE OF DATA COMMUNICATIONS NETWORKS. CONTENTS INCLUDE: THE OFFICE OF THE FUTURE; NEW KNOW-HOW; INFORMATION SYSTEMS; PERSONAL COMPUTING FOR MANAGEMENT; PROMOTING OFFICE AUTOMATION; SOFTWARE FOR EXPERT SYSTEMS; PREPARING FOR DECISION MAKING USING THE SPREADSHEET; DISTRIBUTED SYSTEMS IN BUSINESS AND MERCHANDIZING; CHALLENGES WITH MICROCOMPUTERS; BIOTECHNOLOGY AND THE BIOCHIP; INTERFACING THE MACHINE; VOICE INPUT/OUTPUT; DISC STORAGE; THE PC; EXPERTISE IN TELECOMMUNICATIONS; PROTOCOLS; KEY TOPICS IN DATA COMMUNICATIONS; NETWORK SHARING, MULTIPLEXING AND LINKING THE PC TO THE NETWORK; GOOD NEWS AND BAD NEWS ON THE PC-TO-MAINFRAME NETWORK.

AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N12
COMPUTER SCIENCE PRESS, INC., 1803 RESEARCH
ROCKVILLE, MARYLAND 20850

IRIS ACCESSION NUMBER: EW014161

PUBLICATION DATE: DEC 86

TITLE: DESIGN AND OPERATION OF A SLOW SAND FILTER.

AUTHOR: SEELAUS, TIMOTHY J.; AND OTHERS

*DESIGN; *DRINKING WATER; *GIARDIASIS;
*OPERATIONS (WATER); *SAND FILTERS; *SLOW SAND
FILTER TREATMENT

NOTE: 35-41P.

DESCRIBED IS A SLOW SAND FILTER THAT WAS USED FOR A SMALL MOUNTAIN COMMUNITY TO ELIMINATE GIARDIASIS.

AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78

IRIS ACCESSION NUMBER: EW014162
PUBLICATION DATE: DEC 86

TITLE: IMPLEMENTING DIRECT FILTRATION AND NATURAL FREEZING OF ALUM SLUDGE.

PERSONAL AUTHOR: FITCH, DAVID E.; ELLIOTT, C. MICHAEL

DESCRIPTOR: *DESIGN; *DRINKING WATER; *FACILITIES; *NPDES;
*OPERATIONS (WATER); *WATER TREATMENT; *NEW YORK

DESCRIPTIVE NOTE: 52-56P.

ABSTRACT: DESCRIBED ARE IMPROVEMENTS TO A WATER TREATMENT PLANT THAT DOUBLED CAPACITY AND MET NPDES RESTRICTIONS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N12

IRIS ACCESSION NUMBER: EW014163

PUBLICATION DATE: DEC 86

TITLE: NEWS OF THE FIELD.

PERSONAL AUTHOR: VISSCHER, JAN TEUN; GALVIS, GERARDO

DESCRIPTOR: *COSTS; *DESIGN; *DRINKING WATER; *DEVELOPING
COUNTRIES; *OPERATIONS (WATER); *PERFORMANCE EVALUATION;
*SAND FILTERS; *SLOW SAND FILTERS; *WATER TREATMENT

DESCRIPTIVE NOTE: 92-94P.

ABSTRACT: SLOW SAND FILTRATION IS RECLAIMING ITS PLACE AS A SIMPLE, RELIABLE, AND HIGHLY EFFICIENT WATER TREATMENT METHOD. THE SYSTEM HAS BEEN PARTICULARLY USEFUL IN DEVELOPING COUNTRIES. DESCRIBED ARE SOME OF THE DESIGN AND PERFORMANCE FEATURES OF SLOW SAND FILTERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N12

IRIS ACCESSION NUMBER: EW014164

PUBLICATION DATE: NOV 86

TITLE: ENVIRONMENTAL EMERGENCY RESPONSE TEAM PERSONAL PROTECTION PLAN GUIDELINES.

PERSONAL AUTHOR: POMAVILLE, DAVID; UTTERBACK, DAVID F.

DESCRIPTOR: *EMERGENCY RESPONSES; *EMERGENCY RESPONSE
TEAMS; *ENVIRONMENT; *GUIDELINES; *PROTECTIVE CLOTHING;
*RESPIRATORS; *SAFETY

DESCRIPTIVE NOTE: 140-144P.

ABSTRACT: ENVIRONMENTAL EMERGENCY RESPONSE TEAMS ARE BEING ESTABLISHED IN LOCAL HEALTH DEPARTMENTS THROUGHOUT THE

SET OF GUIDELINES IS PRESENTED FOR ESTABLISHING A
TECTION PLAN FOR THESE TEAMS INCLUDING CRITERIA
VE CLOTHING AND RESPIRATORS.

JOURNAL OF ENVIRONMENTAL HEALTH; V49 N3

ON NUMBER: EW#14165

DATE: NOV 86

ROLE OF ENVIRONMENTAL HEALTH PERSONNEL IN
TERIALS EMERGENCY RESPONSE (FROM THE FIELD).

OR: MERRYMAN, ROBERT E.

*CALIFORNIA; *EMERGENCY RESPONSES; *EMERGENCY
S; *HAZARDOUS MATERIALS

OTE: 145-147P.

IS PAPER DESCRIBES THE DEVELOPMENT OF A COUNTRY
TERIALS EMERGENCY RESPONSE PLAN.

JOURNAL OF ENVIRONMENTAL HEALTH; V49 N3

ON NUMBER: EW#14167

DATE: DEC 86

AL REPORT: HAZARDOUS MATERIALS AND SLUDGE

OR: CHEREMISINOFF, PAUL N.

*HAZARDOUS MATERIALS; *HAZARDOUS WASTES;
; *POLLUTION CONTROL; *SLUDGE; *SLUDGE
STES; *WASTE DISPOSAL; *WASTEWATER TREATMENT

OTE: 32-38P.

IS ARTICLE DISCUSSES INCINERATION OF HAZARDOUS
ND SLUDGE. TYPES OF INCINERATORS, DESIGN
LIMITATIONS ARE CONSIDERED.

POLLUTION ENGINEERING; V18 N12

ON NUMBER: EW#14168

DATE: DEC 86

EARCH FOR RELIABLE UNDERGROUND STORAGE.

OR: DONOVAN, BRIAN C.

*HAZARDOUS MATERIALS; *PETROLEUM; *POLLUTION
ORAGE TANKS; *TANKS; *UNDERGROUND STORAGE;
Y; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 48-43P.

ABSTRACT: THIS REPORT IS CONCERNED WITH RELIABLE STORAGE OF
PETROLEUM IN UNDERGROUND TANKS. VARIOUS TYPES OF TANKS AND
ADVANTAGES AND DISADVANTAGES OF EACH ARE CONSIDERED.

AVAILABILITY: POLLUTION ENGINEERING; V18 P12

IRIS ACCESSION NUMBER: EW#14169

PUBLICATION DATE: DEC 86

TITLE: FORMALIZING TREATMENT PLANT MAINTENANCE.

PERSONAL AUTHOR: PILLAI, AYYAPPAN; THOMAS, LEROY

DESCRIPTOR: *FLORIDA; *MAINTENANCE; *MAINTENANCE PROGRAMS;
*MANAGEMENT; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER);
*WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 23-25P.

ABSTRACT: DESCRIBED ARE A MAINTENANCE MANAGEMENT SYSTEM AND
APPRENTICESHIP PROGRAMS USED BY THE ST. PETERSBURG (FLORIDA)
PUBLIC UTILITIES DEPARTMENT.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14170

PUBLICATION DATE: DEC 86

TITLE: CAN A SMALL TOWN TREATMENT PLANT ESTABLISH NEW
STANDARDS?

PERSONAL AUTHOR: CLARK, ARLEN B.; CLARK, SIDNEY E.

DESCRIPTOR: *ALASKA; *COSTS; *DESIGN; *ENVIRONMENTAL
IMPACT; *FACILITIES; *TEMPERATURE EFFECTS; *WASTEWATER
TREATMENT

DESCRIPTIVE NOTE: 29-32P.

ABSTRACT: DESCRIBED IS THE DESIGN OF A SMALL TOWN
WASTEWATER TREATMENT PLANT IN JUNEAU, ALASKA. THE PLANT WAS
DESIGNED TO MEET SEVERE ENVIRONMENTAL CONSTRAINTS.

AVAILABILITY: PUBLIC WORKS; V117 N12

IRIS ACCESSION NUMBER: EW#14171

PUBLICATION DATE: DEC 86

TITLE: HIGH TECH APPROACH TO URBAN STORMWATER MANAGEMENT.

PERSONAL AUTHOR: PIMENTEL, DAVID V.; OSWALD, GEORGE E.

DESCRIPTOR: *MANAGEMENT; *MONITORING; *STORMWATER; *SURFACE

20

WASTEWATER COLLECTION; *URBAN AREAS

NOTE: 32-34P.

DESCRIBED ARE SOME OF THE SOPHISTICATED
DEVELOPED BY AUSTIN (TEXAS) TO MONITOR STORMWATER
DRAIN OF FLOODS.

TOPIC: PUBLIC WORKS; V117 N12

IRIS NUMBER: EW#14172

DATE: DEC 86

IMPROVED LAGOON PERFORMANCE THROUGH RETENTION-TIME

AUTHOR: RICH, LINVIL G.

*LAGOONS; *OPERATIONS (WASTEWATER); *WASTEWATER

NOTE: 38-39P.

LAGOON PERFORMANCE CAN BE IMPROVED BY RETENTION-
SUSPENDED SOLIDS REDUCTION IS IMPROVED BY
RETENTION TIME WITH TEMPERATURE.

PUBLIC WORKS; V117 N12

IRIS NUMBER: EW#14217

DATE: DEC 86

ANALYZING FINE BUBBLE BREAKDOWN.

AUTHOR: HOUCK, DANIEL H.

*AERATORS; *BUBBLE AERATORS; *EQUIPMENT;
*OPERATIONS (WASTEWATER); *WASTEWATER

NOTE: 18-21P.

THIS ARTICLE SUMMARIZES PROVEN TECHNIQUES FOR
OPERATION AND MAINTENANCE OF FINE BUBBLE AERATION

OPERATIONS FORUM; V3 N12

IRIS NUMBER: EW#14218

DATE: DEC 86

INDUSTRIAL LAB WORK.

AUTHOR: BOYED, J. W.; FARRILL, T. W.

DESCRIPTOR: *ANALYTICAL PROCEDURES; *COLORIMETRIC TESTING;
*LABORATORY PROCEDURES; *METALS; *OPERATIONS (WASTEWATER);
*WASTEWATER TREATMENT; *REPORTING

DESCRIPTIVE NOTE: 22-24P.

ABSTRACT: DESCRIBED ARE SOME LOW-COST PROCEDURES FOR DOING
COLORIMETRIC LABORATORY TESTING FOR METAL IONS AT WASTEWATER
TREATMENT PLANTS.

AVAILABILITY: OPERATIONS FORUM; V3 N12

IRIS ACCESSION NUMBER: EW#14219

PUBLICATION DATE: DEC 86

TITLE: SLUDGE WASTING. FUNDAMENTALS PROCESS CONTROL PART
VII.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *OPERATIONS (WASTEWATER); *PROCESS CONTROL;
*SLUDGE; *SLUDGE WASTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 25-29P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR DETERMINING AND
CONTROLLING SLUDGE WASTING RATES.

AVAILABILITY: OPERATIONS FORUM; V3 N12

IRIS ACCESSION NUMBER: EW#14220

PUBLICATION DATE: DEC 86

TITLE: RETHINKING THE WORKSHOP.

PERSONAL AUTHOR: LADD, CAROLYN

DESCRIPTOR: *INSTRUCTION; *RECOMMENDATIONS; *TRAINING;
*TRAINING PROCEDURES; *WORKSHOPS

DESCRIPTIVE NOTE: 42-44P.

ABSTRACT: DESCRIBED ARE VARIOUS TYPES OF TRAINING
TECHNIQUES AND TRAINING APPROACHES THAT MAY CHANGE TRAINING
PROCEDURES, PRIMARILY USE OF TRADITIONAL WORKSHOPS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V4# N12

IRIS ACCESSION NUMBER: EW#14221

PUBLICATION DATE: DEC 86

TITLE: BEHAVIOR MODELING FOR RESULTS.

PERSONAL AUTHOR: HULTMAN, KENNETH E.

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*BEHAVIOR MODELING; INSTRUCTION; SUPERVISORS;
NOTE: 68-63P.
DESCRIBED ARE EFFECTIVE CAUSES OF BEHAVIOR
SUPERVISORY TRAINING AND HOW TO CONDUCT
TRAINING SESSIONS AND SITUATIONS,
TRAINING AND DEVELOPMENT JOURNAL: V8 N12

IRIS NUMBER: EW014222
DATE: JUL 86

A COMPILATION OF ABSTRACTS TO WATER QUALITY
SOURCES MATERIALS, SUPPLEMENT 226, 1986.
*AUDIOVISUAL AIDS; CITIZEN PARTICIPATION;
MATERIALS; INDEXES; INFORMATION DISSEMINATION;
L MATERIALS; PESTICIDES; POSTSECONDARY
EDUCATION; TECHNOLOGY; WASTE DISPOSAL; WASTEWATER;
POLLUTION; WATER QUALITY; WATER RESOURCES;
TREATMENT; WASTEWATER TREATMENT
NOTE: 97P. PRICE: SUBSCRIPTION \$12.00.

COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED
NON-PRINT MATERIALS RELATED TO WASTEWATER
AND WATER QUALITY EDUCATION AND INSTRUCTION, AS
WELL AS MATERIALS RELATED TO PESTICIDES, HAZARDOUS WASTES,
CITIZEN PARTICIPATION, SOURCES OF ABSTRACTED/INDEXED
MATERIALS, AND EDUCATIONAL INSTITUTIONS. TITLE AUTHOR(S),
DATE, CROSS-REFERENCES, DESCRIPTORS, AND
ABSTRACTS ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE
GIVEN WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN
WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL
MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC
NEEDS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR
INDEX, THIS PUBLICATION SUPPLEMENTS AND DOES NOT
REPLACE QUALITY INSTRUCTIONAL RESOURCES INFORMATION
SERIES; A COMPILATION OF ABSTRACTS TO WATER QUALITY
SOURCES OR IRIS SUPPLEMENTS; -25.

ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, ROOM 118, COLUMBUS, OH 43212
IRIS NUMBER: EW014224
DATE: DEC 86

STRICTLY ENFORCED SHOULD WAIVE FROM SECONDARY
WPCF ISSUE PAPER.
*DISCHARGE WAIVERS; EFFLUENT; ISSUES; MARINE
POLLUTION; OPERATIONS (WASTEWATER); REGULATIONS;
TREATMENT

DESCRIPTIVE NOTE: 1101-1110.

ABSTRACT: THIS PAPER CONSIDERS ISSUES RELATED TO MARINE
WASTEWATER WAIVERS FROM SECONDARY TREATMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V8 N2

IRIS ACCESSION NUMBER: EW014225
PUBLICATION DATE: DEC 86

TITLE: PRETREATMENT: ARE WE HEADED IN THE RIGHT DIRECTION?
WPCF COMMITTEE VIEWPOINT.

DESCRIPTOR: *ISSUES; *INDUSTRIAL WASTES; *OPERATIONS
(WASTEWATER); *PRETREATMENT; *REGULATIONS; *WASTEWATER
TREATMENT; *WPCF

DESCRIPTIVE NOTE: 1106-1110P.

ABSTRACT: THIS ARTICLE IS PUBLISHED TO PRESENT - A WPCF
COMMITTEE VIEWPOINT ON PRETREATMENT OF INDUSTRIAL WASTES
DISCHARGED TO MUNICIPAL TREATMENT SYSTEMS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V8 N2

IRIS ACCESSION NUMBER: EW014226
PUBLICATION DATE: DEC 86

TITLE: RE-EVALUATION OF LAUNDERS IN RECTANGULAR
SEDIMENTATION BASINS.

PERSONAL AUTHOR: KAWAMURA, SUSUMU; LANG, J. W.

DESCRIPTOR: *BASINS; *OPERATIONS (WASTEWATER); *PERFORMANCE
EVALUATION; *TURBIDITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1124-1130P.

ABSTRACT: THE EFFECTIVENESS OF LONG LAUNDERS IN RECTANGULAR
SEDIMENTATION BASINS IS QUESTIONABLE, AND THEIR USE SHOULD
BE CLOSELY SCRUTINIZED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V8 N2

IRIS ACCESSION NUMBER: EW014227
PUBLICATION DATE: DEC 86

TITLE: HYDRAULIC STUDIES AND CLEANLINESS EVALUATIONS OF
ULTRAVIOLET DISINFECTION UNITS.

PERSONAL AUTHOR: KREFT, PETER; AND OTHERS



*CLEANING; *DESIGN; *DISINFECTION; *OPERATIONS
*PERFORMANCE EVALUATION; *ULTRAVIOLET;
UNITS; *WASTEWATER TREATMENT

NOTE: 1129-1137P.

ST QUARTZ-TUBE UNITS ARE EQUIPPED WITH
CLEANING DEVICES; HOWEVER, BOTH THESE AND POLYMER
SHOULD BE DESIGNED WITH RECIRCULATING CHEMICAL
EMS.

JOURNAL. WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW814 228

DATE: DEC 86

RECYCLES PROCESS AND HYDRAULIC ENERGY.

AUTHOR: THOMAS, DON

*ECONOMICS; *ENERGY; *ENERGY CONSERVATION;
*HEAT; *ELECTRICITY; *OPERATIONS (WASTEWATER);
*RECOVERY; *WASTEWATER TREATMENT

NOTE: 29-38P.

DESCRIBED ARE WASTEWATER TREATMENT FACILITIES IN
CALIFORNIA. THESE FACILITIES CAPTURE AND USE
DIGESTER GAS AND ALSO FROM THE FLOW OF EFFLUENT.

JOURNAL. WATER ENGINEERING AND MANAGEMENT; V133 N12

NUMBER: EW8142 29

DATE: DEC 86

ASSUMPTIONS KEY TO EGG-SHAPED DIGESTER COSTS.

AUTHOR: GARVIN, JOHN P.

*ANAEROBIC DIGESTERS; *DIGESTERS; *DESIGN;
*OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

NOTE: 31-34P.

DESCRIBED ARE EGG-SHAPED ANAEROBIC DIGESTERS AND
DESIGN ASSUMPTIONS THAT INFLUENCE OPERATING

JOURNAL. WATER ENGINEERING AND MANAGEMENT; V133 N12

NUMBER: EW814230

DATE: DEC 86

AIR LIFT SYSTEM OPTIMIZED DURING PLANT UPGRADE.

DESCRIPTOR: *CALIFORNIA; *DEWATERING; *EQUIPMENT;
*FACILITIES; *OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER
TREATMENT

DESCRIPTIVE NOTE: 35-36P.

ABSTRACT: DESCRIBED ARE DEWATERING PROBLEMS AND SOLUTIONS
AT A SAN FRANCISCO, CALIFORNIA WASTEWATER TREATMENT PLANT.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N12

IRIS ACCESSION NUMBER: EW814323

PUBLICATION DATE: JAN 87

TITLE: SAVANNAH DEMONSTRATES VALUE OF PREVENTIVE SEWER
SYSTEM MAINTENANCE.

DESCRIPTOR: *EQUIPMENT; *GEORGIA; *MAINTENANCE; *PREVENTIVE
MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER
COLLECTION

DESCRIPTIVE NOTE: 51-53P.

ABSTRACT: NEW MACHINES ASSIST SEWER LINE PREVENTIVE
MAINTENANCE IN A GEORGIA COMMUNITY.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW814324

PUBLICATION DATE: JAN 87

TITLE: RECENT ADVANCES IN WATER TREATMENT PROCESSES.

PERSONAL AUTHOR: KAWAMURA, SUSUMU

DESCRIPTOR: *CHEMICALS; *FACILITIES; *OPERATIONS
(WASTEWATER); *RECENT ADVANCES; *TECHNOLOGY; *WASTEWATER
TREATMENT

DESCRIPTIVE NOTE: 63-65, 184P.

ABSTRACT: DESCRIBED ARE RECENT ADVANCES IN WATER TREATMENT
PROCESSES.

AVAILABILITY: PUBLIC WORKS; V118 N1

IRIS ACCESSION NUMBER: EW814325

PUBLICATION DATE: JAN 87

TITLE: EVALUATING AND SELECTING FINE BUBBLE DIFFUSERS.

PERSONAL AUTHOR: HOUCK, DANIEL H.

DESCRIPTOR: ACTIVATED SLUDGE; BUBBLE DIFFUSERS; *BUBBLE
AERATION SYSTEMS; *DESIGN; *MAINTENANCE; *INSTALLATION;

23

(WASTEWATER); *PERFORMANCE EVALUATION;
*WASTEWATER TREATMENT

NOTE: 67-70, 104P.

PRESENTED IS AN IN-DEPTH EXAMINATION OF BUBBLE
WASTEWATER TREATMENT.

PUBLIC WORKS; V118 N1

ON NUMBER: EW#14326

DATE: JAN 87

TRACKING TO WATER QUALITY.

OR: MORIARTY, WILLIAM B.; MCCARTY, ROBERT

*DESIGN; *CONSTRUCTION; *FACILITIES; *TEXAS;
*TREATMENT

NOTE: 75-78P.

DESCRIBED IS THE EXPANSION OF A WASTEWATER
PLANT IN TEXAS. ALTERNATIVES WERE REVIEWED AND
DEVELOPED IN A SHORT PERIOD OF TIME.

PUBLIC WORKS; V118 N1

ON NUMBER: EW#14327

DATE: AUG 86

OBIC WASTEWATER TREATMENT - ATTACHED GROWTH AND
T PROCESS.

OR: VIGNESWARAN, S.; AND OTHERS

*ANAEROBIC TREATMENT; *DESIGN; *EQUIPMENT;
*OPERATIONS (WASTEWATER); *TECHNOLOGY;
*TREATMENT

NOTE: 1-101P.

DISCUSSED ARE VARIOUS ASPECTS OF ANAEROBIC
TREATMENT. SECTIONS INCLUDED ARE: (1) ANAEROBIC
TREATMENT; (2) ANAEROBIC DOWNFLOW STATIONARY FIXED-
BED; (3) ANAEROBIC EXPANDED/FLUIDIZED BED
(4) UPFLOW ANAEROBIC SLUDGE BLANKET TREATMENT;
COMPARISON OF HIGH-RATE ANAEROBIC WASTEWATER
TREATMENT.

ENVIRONMENTAL SANITATION REVIEWS; N19/20

IRIS ACCESSION NUMBER: E#14329

PUBLICATION DATE: JAN 87

TITLE: TRAINING PANELISTS FOR THE FLAVOR PROFILE ANALYSIS
METHODS.

PERSONAL AUTHOR: BARTELS, JEROEN H. M.; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER;
*FLAVOR PROFILE ANALYSIS METHOD; *ODOR; *OPERATIONS (WATER);
*TASTE; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 26-32P.

ABSTRACT: DESCRIBED IS THE TRAINING OF VOLUNTEER STUDENTS
AT DREXEL UNIVERSITY FOR EVALUATING TASTE AND ODOR OF WATER.
THE ARTICLE PRESENTS A GENERAL INTRODUCTION ABOUT TRAINING
PANELISTS FOR THE FLAVOR PROFILE ANALYSIS (FPA) METHOD.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N1

IRIS ACCESSION NUMBER: EW#14330

PUBLICATION DATE: JAN 87

TITLE: PREVENTING THE FORMATION OF TRIHALOMETHANES IN
FLORIDA GROUNDWATER.

PERSONAL AUTHOR: THOMPSON, JOHN C.; AMENO, JULES J.

DESCRIPTOR: *COLOR; *DRINKING WATER; *FLORIDA;
*GROUNDWATER; *OPERATIONS (WATER); *TRIHALOMETHANES; *THM;
*WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 38-42P.

ABSTRACT: WATER TREATMENT METHODS WERE CHANGED TO MEET THM
AS WELL AS COLOR REGULATIONS FOR A FLORIDA COMMUNITY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N1

IRIS ACCESSION NUMBER: EW#14331

PUBLICATION DATE: JAN 87

TITLE: DEVELOPING HALOFORM FORMATION POTENTIAL TESTS.

PERSONAL AUTHOR: BATCHELOR, BILL; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER;
*HALOFORM FORMATION POTENTIAL; *LABORATORY PROCEDURES;
*OPERATIONS (WATER); *PROCESS CONTROLS; *TRIHALOMETHANE;
*WATER TREATMENT

DESCRIPTIVE NOTE: 50-55P.

ABSTRACT: THERE IS A NEED FOR ACCURATE, RAPID, AND EASILY



PROXIMATE PARAMETERS FOR THM FORMATION POTENTIAL TO THE CONTROL OF WATER TREATMENT PLANTS. THIS ARTICLE IS THE RESULT OF A RESEARCH PROJECT TO TEST IODINE IN THE TEST. RESULTS ARE REPORTED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL, V79

IRIS ACCESSION NUMBER: EW014332

PUBLICATION DATE: JAN 87

TITLE: BECOMING A STATE-OF-THE-ART PRESENTER.

PERSONAL AUTHOR: BURRY, SUSAN E.; GARMSTON, ROBERT J.

DESCRIPTOR: *GROUP DYNAMICS; *INSTRUCTION; *PRESENTATIONS; *TECHNIQUES

DESCRIPTIVE NOTE: 19-23P.

ABSTRACT: THIS ARTICLE PROVIDES SUGGESTIONS FOR IMPROVING EFFECTIVE TRAINING EVALUATION PROCEDURES. SUGGESTIONS INCLUDE AUDIENCE ANALYSIS, TECHNIQUES, AND "PEOPLE SKILLS."

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW014333

PUBLICATION DATE: JAN 87

TITLE: WHEN TO LOOK FOR WHEN YOU BUY TRAINING.

PERSONAL AUTHOR: TARTELL, ROSS

DESCRIPTOR: *CONTRACTING; *CRITERIA; *TRAINING

DESCRIPTIVE NOTE: 28-38P.

ABSTRACT: THIS ARTICLE PRESENTS SEVEN CRITERIA TO USE WHEN BUYING.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW014334

PUBLICATION DATE: JAN 87

TITLE: STRATEGIES FOR EMPLOYEE DEVELOPMENT.

PERSONAL AUTHOR: VINTON, DONNA

DESCRIPTOR: *DELEGATION; *EMPLOYEE DEVELOPMENT; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 65-67P.

ABSTRACT: SUGGESTIONS ARE GIVEN FOR DELEGATING TO IMPROVE

EMPLOYEES' JOB SATISFACTION, ORGANIZATIONAL COMMITMENT, AND KNOWLEDGE.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW014335

PUBLICATION DATE: JAN 87

TITLE: MEASURING TRAINING RESULTS: KEY TO MANAGERIAL COMMITMENT.

PERSONAL AUTHOR: BELL, JAMES D.; KERR, DEBORAH L.

DESCRIPTOR: *EVALUATION; *MANAGEMENT; *PROGRAM EVALUATION; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 70-73P.

ABSTRACT: THIS ARTICLE PROVIDES A CASE STUDY OF AN EFFECTIVE TRAINING EVALUATION PROGRAM.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N1

IRIS ACCESSION NUMBER: EW014336

PUBLICATION DATE: JAN 87

TITLE: BIOLOGICAL TESTING TO CONTROL TOXIC WATER POLLUTANTS.

PERSONAL AUTHOR: WALL, THOMAS M.; HANMER, REBECCA W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGICAL TESTING; *DISCHARGE LIMITS; *EFFLUENT MONITORING; *PRIORITIES; *REGULATIONS; *TOXIC SUBSTANCES; *USEPA; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 7-12P.

ABSTRACT: TOXICITY TESTING CAN IMPROVE THE ASSESSMENT AND CONTROL OF TOXIC WATER POLLUTANTS; THE PROCEDURES HAVE BEEN USED SUCCESSFULLY FOR A VARIETY OF PURPOSES. IN THE NEXT SEVERAL YEARS, USEPA WILL PUSH FOR INCREASED USE TO CONTROL WASTEWATER DISCHARGES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V59 N1

IRIS ACCESSION NUMBER: EW014337

PUBLICATION DATE: JAN 87

TITLE: DEVELOPMENT OF A RATIONALLY BASED DESIGN PROTOCOL FOR THE ULTRAVIOLET LIGHT DISINFECTION PROCESS.

PERSONAL AUTHOR: SCHEIBLE, D. KARL

25

DISINFECTION; *MODELS; *OPERATIONS
*ULTRAVIOLET RADIATION; *WASTEWATER TREATMENT
TE: 25-3 1P.

DESCRIBED IS A MODEL THAT CAN TEST THE EFFECTS OF
LIGHT DISPERSION, AND FLOW VELOCITY.
JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW#14338
TE: JAN 87

OF ORGANIC COMPOUNDS IN LAND APPLICATION OF
MUNICIPAL SLUDGE.
R: DEMIRCIAN, Y. A.; AND OTHERS

COSTS; CONTAMINATION; *GROUNDWATER; *LAND
*MUNICIPAL SLUDGE; *ORGANIC COMPOUNDS; *WASTE
WATER TREATMENT; *PERFORMANCE EVALUATION
TE: 32-30P.

CYCLING CONTAMINATED GROUNDWATER THROUGH SLUDGE
BY ISOLATION AND LAND APPLICATION OF THE
A COST-EFFECTIVE TREATMENT.
JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW#14339
TE: JAN 87

OXIDATION OF ANAEROBICALLY DIGESTED SLUDGE.
WU, Y. C.; AND OTHERS

PERATIONS (WASTEWATER); *PERFORMANCE
SLUDGE; *SLUDGE MANAGEMENT; *TEMPERATURE;
TMENT; *WET AIR OXIDATION
TE: 39-46P.

TEMPERATURE WAS THE MOST SIGNIFICANT PARAMETER;
AS IMPROVED FOR A VARIETY OF SLUDGE TYPES.
JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW#14340
TE: JAN 87

REAMS IN WASTEWATER TREATMENT PLANTS.

DESCRIPTOR: DESIGN; MASS BALANCE; *OPERATIONS (WASTEWATER
TREATMENT); *PERFORMANCE EVALUATION; *SIDESTREAMS;
*WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 54-59P.

ABSTRACT: THIS REPORT ADDRESSES HANDLING OF RECYCLE FLOWS
AND LOADS, SOURCES AND CHARACTERISTICS OF SIDESTREAMS,
POTENTIAL ADVERSE IMPACTS OF SIDESTREAMS ON PLANT
PERFORMANCE, DESIGN AND OPERATION PROCEDURES THAT CAN REDUCE
SIDESTREAM IMPACT, AND USE OF A MASS BALANCE TO ASSESS
SIDESTREAM IMPACTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V69 N1

IRIS ACCESSION NUMBER: EW#14341

PUBLICATION DATE: JAN 87

TITLE: CLARIFIER TUNE-UP.

PERSONAL AUTHOR: ESLER, JOHN K.; MILLER, TIMOTHY J.

DESCRIPTOR: *CLARIFIERS; *EQUIPMENT; *MAINTENANCE;
*OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 7-11P.

ABSTRACT: DISCUSSED ARE OPERATION AND MAINTENANCE
PROCEDURES TO KEEP CLARIFIERS PERFORMING EFFECTIVELY.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14342

PUBLICATION DATE: JAN 87

TITLE: A BAFFLING SOLUTION.

PERSONAL AUTHOR: SEYMOUR, DAN

DESCRIPTOR: *BAFFLES; *EQUIPMENT; *OPERATIONS (WASTEWATER);
*PERFORMANCE EVALUATION; *SETTLING TANKS; *TROUBLESHOOTING;
*WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 12-13P.

ABSTRACT: DESCRIBED IS THE USE OF BAFFLES TO IMPROVE THE
OPERATION OF FINAL SETTLING TANKS.

AVAILABILITY: OPERATIONS FORUM; V4 N1

IRIS ACCESSION NUMBER: EW#14343

PUBLICATION DATE: JAN 87

TITLE: MORE ON SLUDGE WASTING.



AUTHOR: HOBSON, TIM
: *MANAGEMENT; *OPERATIONS (WASTEWATER); *PROCESS
SLUDGE; *SLUDGE WASTING; *WASTEWATER TREATMENT

NOTE: 14-19P.

THIS IS THE EIGHTH ARTICLE OF A SERIES ON PROCESS
THIS ARTICLE PROVIDES ADDITIONAL INFORMATION ON
TING AND HOW TO CONTROL IT.

TY: OPERATIONS FORUM; V4 N1

SION NUMBER: EW#14344

DATE: JAN 87

UNDERSTANDING CHEMICAL HAZARDS.

AUTHOR: NIEDRINGHAUS, LANDON; NIEDRINGHAUS, LINDA

*ACCIDENT PREVENTION; *CHEMICAL HAZARDS;
*MATERIALS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES;
; *OPERATIONS (WASTEWATER); *SPILLS; *WASTEWATER

NOTE: 2#-24P.

DISCUSSED ARE A VARIETY OF CHEMICAL HAZARDS AND
ARE PROVIDED FOR ACTION TO PREVENT PROBLEMS OR
ROBLEMS IF THEY SHOULD OCCUR.

Y: OPERATIONS FORUM; V4 N1

ON NUMBER: EW#14345

DATE: JAN 87

ENVIRONMENTAL SOFTWARE REVIEW - 1987.

AUTHOR: CHEREMISINOFF, NICHOLAS P.

AIR POLLUTION CONTROL; AIR QUALITY; *COMPUTER
*COMPUTER APPLICATIONS; HAZARDOUS WASTES;
*OPERATIONS (WASTEWATER); SOLID WASTES;
TREATMENT; *DATA MANAGEMENT; *ENVIRONMENT; TOXIC

NOTE: 3#-43P.

THIS ARTICLE SUMMARIZES ENVIRONMENTAL SOFTWARE
S A DETAILED LOOK AT SOME SOFTWARE PACKAGES FOR
ON, WATER TREATMENT PLANT CONTROL, AND HAZARDOUS
SITE DATA MANAGEMENT. A LIST OF PUBLISHERS OF THE
GRAMS IS INCLUDED.

POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14346
PUBLICATION DATE: JAN 87

TITLE: THE NEW SUPERFUND: SUMMARY OF ITS REAUTHORIZATION.

PERSONAL AUTHOR: STEINWAY, DANIEL M.

DESCRIPTOR: *CLEANUP; *HAZARDOUS WASTES; *FUNDING;
*LEGISLATION; *POLLUTION CONTROL; *REGULATIONS; *SUPERFUND;
*SUPERFUND REAUTHORIZATION; *TOXIC SUBSTANCES; *USEPA

DESCRIPTIVE NOTE: 46-49P.

ABSTRACT: PRESENTED IS A SUMMARY OF THE SUPERFUND
REAUTHORIZATION LEGISLATION.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14347

PUBLICATION DATE: JAN 87

TITLE: TAKING SERIOUSLY THE REDUCTION OF HAZARDOUS WASTE.

PERSONAL AUTHOR: HIRSCHHORN, JOEL S.; OLDENBURG, KIRSTEN U.

DESCRIPTOR: *FEDERAL REPORTS; *HAZARDOUS WASTES; FEDERAL
ROLE; *POLLUTION CONTROL; *REGULATIONS; TOXIC SUBSTANCES;
*WASTE REDUCTION; WASTE DISPOSAL; *RECOMMENDATIONS

DESCRIPTIVE NOTE: 5#-51P.

ABSTRACT: SUMMARIZED ARE SOME OF THE FINDINGS REPORTED IN A
RECENT REPORT (SERIOUS REDUCTION OF HAZARDOUS WASTE) BY THE
OFFICE OF TECHNOLOGY ASSESSMENT OF THE U.S. CONGRESS. A
MAJOR THEME OF THE REPORT IS THAT THE PRODUCTION OF
HAZARDOUS WASTES NEEDS TO BE REDUCED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS ACCESSION NUMBER: EW#14348

PUBLICATION DATE: JAN 87

TITLE: MANAGEMENT OF ENVIRONMENTAL INFORMATION.

PERSONAL AUTHOR: BOWER, JAMES

DESCRIPTOR: *DATABASES; *DESIGN; *ENVIRONMENT; *INFORMATION
SYSTEMS; *MANAGEMENT; *OPERATIONS

DESCRIPTIVE NOTE: 52-55P.

ABSTRACT: THIS ARTICLE PROVIDES AN OUTLINE FOR DESIGN
CRITERIA FOR A SUCCESSFUL ENVIRONMENTAL DATABASE AND
DESCRIBES SUGGESTIONS FOR AVOIDING OR REDUCING OPERATIONAL
PROBLEMS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N1

IRIS NUMBER: EW#14349
PUBLICATION DATE: JAN 87

TITLE: FIT ENDS GAS LOSSES.

PERSONAL AUTHOR: ZUEHLKE, KARL R.

DESCRIPTOR: *COSTS; *DIGESTERS; *ENERGY; *GAS CAPTURE
*FACILITIES; *RECYCLING; *RESOURCE RECOVERY;
*TREATMENT; *METHANE; *WISCONSIN

DESCRIPTIVE NOTE: 2#-22P.

ABSTRACT: DESCRIBED IS A METHANE GAS CAPTURE SYSTEM AT A
WASTEWATER TREATMENT PLANT. THE SYSTEM IS EXPECTED
TO BE OPERATIONAL IN ABOUT 4# MONTHS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS NUMBER: EW#14350

PUBLICATION DATE: JAN 87

TITLE: TUNING PROCESS LEADS TO SUCCESS.

DESCRIPTOR: *ADVANCED WASTEWATER TREATMENT; *BUBBLE
*AERATION SYSTEMS; *COSTS; *FACILITIES;
*WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 23, 33P.

ABSTRACT: DESCRIBED IS A CERAMIC FINE-BUBBLE DIFFUSION
SYSTEM IN A CONNECTICUT WASTEWATER TREATMENT

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS NUMBER: EW#14351

PUBLICATION DATE: JAN 87

TITLE: PRIVATIZATION IS WORKING IN AUBURN, ALABAMA.

DESCRIPTOR: *ALABAMA; *COSTS; *FACILITIES; *FINANCING;
*OPERATIONS (WASTEWATER); *PRIVATIZATION;
*TREATMENT

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED IS A PRIVATIZATION PROGRAM IN AN
CITY THAT PROVIDES WASTEWATER TREATMENT
OPERATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14352
PUBLICATION DATE: JAN 87

TITLE: CONTRACT OPS SOLVE NEW PLANT'S PROBLEMS.

PERSONAL AUTHOR: JACKSON, R. KEITH; HORTON, DOUGLAS W.

DESCRIPTOR: *CONTRACT AGREEMENTS; *COSTS; *MANAGEMENT;
*OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION;
*TRAINING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 3#-33P.

ABSTRACT: DESCRIBED IS A CONTRACT PROGRAM FOR OPERATING A
TENNESSEE WASTEWATER TREATMENT FACILITY.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N1

IRIS ACCESSION NUMBER: EW#14353

PUBLICATION DATE: JAN 87

TITLE: THE DIRECTION OF LIGHT: CAMERA MOVES.

PERSONAL AUTHOR: SHAMAN, HARREY

DESCRIPTOR: *AUDIOVISUAL AIDS; *CAMERAS; *LIGHTING; *LIGHT;
*PHOTOGRAPHY

DESCRIPTIVE NOTE: 1#-25P.

ABSTRACT: THIS ARTICLE IS A PART OF A SERIES THAT REVIEW
LIGHT AND LIGHTING TECHNIQUES. THIS ARTICLE DESCRIBES WHAT
HAPPENS WHEN THE CAMERA MOVES WHILE THE SUBJECT AND THE
LIGHT SOURCE REMAIN STATIONARY. REFERENCES ARE PROVIDED TO
PREVIOUS ARTICLES IN THE SERIES.

AVAILABILITY: TECHNICAL PHOTOGRAPHY; V19 N1

IRIS ACCESSION NUMBER: EW#14354

PUBLICATION DATE: 87

TITLE: HOW DRILLING FLUIDS AND GROUTING MATERIALS AFFECT
THE INTEGRITY OF GROUND WATER SAMPLES FROM MONITORING WELLS.

PERSONAL AUTHOR: GIBB, JAMES P.

DESCRIPTOR: *DRILLING FLUIDS; *GROUNDWATER; *GROUTING
MATERIALS; *MONITORING WELLS; *RECOMMENDATIONS; *WELL
DRILLING

DESCRIPTIVE NOTE: 33-42P.

ABSTRACT: DESCRIBED ARE THE EFFECTS OF DRILLING FLUIDS AND
GROUTING MATERIALS ON GROUND WATER AND MONITORING WELLS.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V7 N1

ON NUMBER: EW#14355

DATE: WIN 87

EUROPEAN PERSPECTIVES ON PREVENTION OF LEAKS
AND UNDERGROUND PETROLEUM STORAGE SYSTEMS.

AUTHOR: MOREAU, MARCEL

*LEAK PREVENTION; *LEAK DETECTION; EUROPE;
*OIL; *PETROLEUM; RECOMMENDATIONS; REGULATIONS;
*TRENDS; *UNDERGROUND STORAGE TANKS; WATER

NOTE: 45-48P.

PROVIDED ARE SOME PERSPECTIVES ON THE PREVENTION
OF UNDERGROUND PETROLEUM STORAGE SYSTEMS BASED ON
OBSERVATIONS AND DISCUSSIONS RELATED TO PRACTICES IN FOUR
COUNTRIES.

GROUND WATER MONITORING REVIEW; V7 N1

ON NUMBER: EW#14356

DATE: WIN 87

CHANGING TRENDS IN GROUND WATER QUALITY AT
SEVERAL SITES.

AUTHOR: LOFTIS, JIM C.; AND OTHERS

*ANALYTICAL TECHNIQUES; *GROUNDWATER;
*SAMPLING; *STATISTICS; *WATER QUALITY

NOTE: 72-76P.

PRESENTED IS A GENERAL APPROACH FOR ANALYZING
GROUND WATER QUALITY DATA. THE SUGGESTED APPROACH ACCOUNTS FOR
VARIATION IN BACKGROUND WATER QUALITY THROUGH
OBSERVATIONS. THE LIMITING OF QUARTERLY SAMPLING
TO SMALL CHANGES IN QUALITY OVER A SHORT TIME
PERIOD IS DISCUSSED.

GROUND WATER MONITORING REVIEW; V7 N1

ON NUMBER: EW#14357

DATE: 86

HAZARDOUS WASTE CONTINGENCY PLANNING.

AUTHOR: SHIELDS, J.; AND OTHERS

*ACCIDENT PREVENTION; *CONTINGENCY PLANNING;
*HAZARDOUS WASTES; *ENVIRONMENT; *MANAGEMENT; *PUBLIC
*OPINION; *PRIORITIES

NOTE: 334-341P.

ABSTRACT: CONTINGENCY PLANNING, USING THE BROADEST
DEFINITION, MAY BE DEFINED AS THE PLANNING FOR EMERGENCIES
AND DISASTERS THAT OCCUR NATURALLY AS A RESULT OF HUMAN
ACTIVITY. THIS PAPER CONSIDERS ONE METHOD USED TO ASSIGN
PRIORITIES FOR CONTINGENCY PLAN DEVELOPMENT BASED ON EVENT
COST AND PROBABILITY OF OCCURRENCE INFORMATION OBTAINED FROM
AN ENVIRONMENTAL AUDIT. THIS TYPE OF APPROACH FOCUSES ON
THOSE AREAS HAVING THE HIGHEST PROBABILITIES FOR OCCURRENCE
AND IS ORIENTED TOWARD MINIMIZING OCCURRENCE AND SUBSEQUENT
IMPACTS OF EMERGENCIES INVOLVING HAZARDOUS WASTE.

AVAILABILITY: ENVIRONMENTAL PROFESSIONAL; V8 N4

IRIS ACCESSION NUMBER: EW#14358

PUBLICATION DATE: FEB 87

TITLE: USING COST-EFFECTIVE WASTEWATER OPTIONS.

PERSONAL AUTHOR: LOMBARDO, PIO

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *COSTS; *CONSTRUCTION;
*INNOVATIVE TECHNOLOGY; *OPERATIONS (WASTEWATER);
*REHABILITATION; *TECHNOLOGY; *WASTEWATER COLLECTION;
*WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 28-34P.

ABSTRACT: DESCRIBED ARE OPTIONS FOR WASTEWATER COLLECTION
AND TREATMENT THAT CAN FREQUENTLY REDUCE COSTS OF
CONSTRUCTION AND OPERATION.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14359

PUBLICATION DATE: FEB 87

TITLE: WASTEWATER RATES RISING AS REQUIREMENTS INCREASE.

DESCRIPTOR: *COSTS; *WASTEWATER TREATMENT RATES;
*WASTEWATER TREATMENT; *SURVEYS; *TRENDS

DESCRIPTIVE NOTE: 37-39P.

ABSTRACT: REPORTED ARE DATA FROM A 1986 NATIONAL WASTEWATER
RATE SURVEY. DATA INDICATE WASTEWATER RATES ARE RISING AS
REQUIREMENTS FOR COLLECTION AND TREATMENT INCREASE.

AVAILABILITY: AMERICAN CITY AND COUNTY; V1#2 N2

IRIS ACCESSION NUMBER: EW#14360

PUBLICATION DATE: FEB 87

TITLE: WASTE DISPOSAL ISSUES SURVEYED.

PERSONAL AUTHOR: SCHWARZ, STEPHEN; SHELSTAD, MERLIN J.

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*OPINION POLLS ; ECONOMICS; *SOLID WASTES;
*SURVEYS; *RESOURCE RECOVERY; *WASTE DISPOSAL;
*TRENDS; ENVIRONMENT; REGULATIONS

NOTE: 42-48P.

REPORTED ARE THE RESULTS OF A DELPHI POLL OF 39
EXPERTS RELATED TO THE FUTURE ISSUES OF SOLID WASTE

AMERICAN CITY AND COUNTY; V102 N2

IRIS NUMBER: EW014361

DATE: FEB 87

IS AVAILABLE FOR CHEMICAL QUERIES.

EDITOR: ALFORD, PAULA N.

*ACCIDENT PREVENTION; *CHEMICALS; *COMMUNITY
AND EMERGENCY RESPONSE; *EMERGENCY RESPONSE;
*RESPONSE PLANS; *PLANNING; *HAZARDOUS MATERIALS;
*TOXIC SUBSTANCES

NOTE: 50-53P.

DISCUSSED ARE VARIOUS PLANNING EFFORTS AND
AVAILABLE FOR CHEMICAL EMERGENCY RESPONSES.

AMERICAN CITY AND COUNTY; V102 N2

IRIS NUMBER: EW014362

DATE: FEB 87

PLANNING WATER TREATMENT FACILITIES.

EDITOR: MONK, ROBERT D. G.; WILLIS, JOHN F.

*COSTS; *DESIGN; *FACILITIES; *OPERATIONS
FOR TREATMENT

NOTE: 45-57P.

MOST-EFFECTIVE DESIGN INCORPORATING MODERN
AND OPERATING PRACTICES REQUIRES OPTIMIZATION OF
DESIGN OF THE WATER TREATMENT TRAIN.

AMERICAN WATER WORKS ASSOCIATION JOURNAL; V72

IRIS NUMBER: EW014363

DATE: FEB 87

PREVENTING COPPER PITTING THROUGH WATER TREATMENT.

PERSONAL AUTHOR: COHEN, ARTHUR; MYERS, JAMES R.

DESCRIPTOR: *CORROSION CONTROL; *CORROSION; *CORROSION
PREVENTION; *COPPER PIPES; *DRINKING WATER; *OHIO; *PIPES;
*WATER DISTRIBUTION; *WATER PIPES; *WATER TREATMENT; *WATER
QUALITY; *WATER SUPPLY; *SODIUM CARBONATE

DESCRIPTIVE NOTE: 60-61P.

ABSTRACT: TREATMENT OF WELL WATER WITH SODA ASH TO MAINTAIN
A PH OF 8.1 TO 8.3 HALTED CORROSION OF COPPER PIPING IN
RESIDENCES IN OHIO.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V72 N2

IRIS ACCESSION NUMBER: EW014364

PUBLICATION DATE: FEB 87

TITLE: CORROSION MONITORING AND CONTROL IN THE PACIFIC
NORTHWEST.

PERSONAL AUTHOR: REIBER, STEVE H.; AND OTHERS

DESCRIPTOR: *CORROSION; *CORROSION CONTROL; *CORROSION
PREVENTION; *CHLORINE; *CHLORINE RESIDUAL; *COPPER PIPES;
*PH; *PIPES; *WATER PIPES; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 71-74P.

ABSTRACT: AN 18-MONTH MONITORING PROGRAM FOUND SIGNIFICANT
RELATIONSHIPS BETWEEN PH AND FREE CHLORINE RESIDUAL IN
TREATED WATER AND THE RATE OF COPPER CORROSION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V72 N2

IRIS ACCESSION NUMBER: EW014366

PUBLICATION DATE: JAN 87

TITLE: THE DEVELOPMENT OF STATE POLICIES AND SYSTEMS FOR
TOXIC SUBSTANCE MANAGEMENT.

PERSONAL AUTHOR: WALKER, BAILUS, JR.; LI, VIVIEN

DESCRIPTOR: *CHEMICALS; *HAZARDOUS MATERIALS; *POLICIES;
*MANAGEMENT; *MASSACHUSETTS; *STATE ROLE; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 202-206P.

ABSTRACT: THIS PAPER EXPLORES THE ROLE OF STATES IN
DEVELOPING POLICIES AND PROGRAMS TO DEAL WITH CHEMICAL
EXPOSURE. TO BE EFFECTIVE, STATES NEED TO DEVELOP MORE
EXPERTISE IN THE ASSESSMENT OF CHEMICALS AND IN THE
IMPLEMENTATION AND ENFORCEMENT OF CHEMICAL REGULATIONS,
TRAINING OF PERSONNEL, AND THE ESTABLISHMENT OF LABORATORIES
AND OTHER SERVICES. EFFORTS BY MASSACHUSETTS TO DEVELOP DATA
SYSTEMS AND OTHER ELEMENTS FOR MANAGING EXPOSURE TO
HAZARDOUS MATERIALS ARE DESCRIBED.

JOURNAL OF ENVIRONMENTAL HEALTH; V49 N4

ON NUMBER: EW#14367

DATE: FEB 87

ING THE GROUNDWATER MONITORING PIECES TOGETHER.

R: COHEN, DONALD K; SMIRIGLIO, SERGIO A.

*GROUNDWATER; *MONITORING; *POLLUTION CONTROL;
*WATER RESOURCES

OTE: 24-26P.

SCRIBED ARE PROCEDURES FOR MONITORING

WATER ENGINEERING AND MANAGEMENT; V134 N2

ON NUMBER: EW#14368

ATE: FEB 87

PPPLICATION FOR A TRIED TECHNOLOGY.

R: VARANI, ANNETTE

*COLORADO; *DRINKING WATER; *ION EXCHANGE;
*WATER); *RADIATION; *URANIUM; *WATER TREATMENT;
*CONTROL; *PUBLIC HEALTH

OTE: 27-29P.

SCRIBED IS AN ION EXCHANGE PROCESS FOR REMOVING
DRINKING WATER. THE PROCESS IS USED TO TREAT
A COLORADO SCHOOL DISTRICT.

WATER ENGINEERING AND MANAGEMENT; V134 N2

NUMBER: EW#14369

ATE: FEB 87

NG BELT CONVEYING SYSTEMS IN TREATMENT PLANTS.

R: CRAVEN, CHARLES G.

*BELT CONVEYING SYSTEMS; *EQUIPMENT;
*OPERATIONS (WASTEWATER); *TECHNOLOGY;
*TREATMENT

OTE: 3#-31P.

SCRIBED IS THE APPLICATION OF BELT CONVEYING
GY TO WASTEWATER TREATMENT OPERATIONS.

WATER ENGINEERING AND MANAGEMENT; V134 N2

IRIS ACCESSION NUMBER: EW#14375
PUBLICATION DATE: FEB 87

TITLE: 1986 NEEDS SURVEY REPORT TO CONGRESS. ASSESSMENT OF
NEEDED PUBLICLY OWNED WASTEWATER TREATMENT FACILITIES IN THE
UNITED STATES.

DESCRIPTOR: *COMPLIANCE; *CURRENT NEEDS; *CLEAN WATER ACT;
*COSTS; *FACILITIES; *FUNDING; *FINANCING; *FUTURE NEEDS;
*FEDERAL ROLE; *NEED ASSESSMENT; *OPERATIONS (WASTEWATER);
*PLANNING; *STATE ROLE; *SURVEYS; *WASTEWATER TREATMENT;
*WATER QUALITY

DESCRIPTIVE NOTE: 72P. PRICE: \$2.00

ABSTRACT: THIS REPORT PROVIDES THE USEPA'S DETAILED
ESTIMATE OF THE CAPITAL COSTS NEEDED TO BUILD PUBLICLY OWNED
MUNICIPAL WASTEWATER TREATMENT FACILITIES TO COMPLY WITH THE
CLEAN WATER ACT. IN ADDITION DATA ARE PRESENTED ON (1)
FACILITIES WITH DOCUMENTED PROBLEMS, (2) TYPES OF TREATMENT,
AND (3) NEEDS OF FACILITIES NOT IN COMPLIANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14393

PUBLICATION DATE: FEB 87

TITLE: ALTERNATING AEROBIC AND ANAEROBIC OPERATION OF AN
ACTIVATED SLUDGE PLANT.

PERSONAL AUTHOR: GONZALEZ-MARTINEZ, SIMON; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; *AEROBIC OPERATIONS;
*ANAEROBIC OPERATIONS; *FACILITIES; *OPERATIONS
(WASTEWATER); *PERFORMANCE EVALUATION; *SECONDARY TREATMENT;
*WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 65-71P.

ABSTRACT: ADDING AERATION TANKS INTO OR TAKING THEM FROM
SERVICE IS A MEANS OF CONSERVING BIOLOGICAL ENERGY WHEN THAT
ENERGY IS SCARCE AND USING THE MICROORGANISM POPULATION
EFFICIENTLY. SLUDGE ACTIVITY IS NOT AFFECTED WHEN STORED
ANAEROBICALLY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V59 N2

IRIS ACCESSION NUMBER: EW#14394

PUBLICATION DATE: FEB 87

TITLE: EVALUATION OF A PULSED BED FILTER FOR FILTRATION OF
MUNICIPAL PRIMARY EFFLUENT.

PERSONAL AUTHOR: BROWN, DONALD S.

*DESIGN; *FILTERS; *FILTRATION; *OPERATIONS
*PERFORMANCE EVALUATION; *PRIMARY EFFLUENT;
*FILTERS; *WASTEWATER TREATMENT

NOTE: 72-78P.

OPERATION OF THE FILTER UNIT WAS GENERALLY
AT ROUTINE CLEANING IS ESSENTIAL FOR PREVENTING
TIME, CEMENTING OF SAND, OR SAND LOSS.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW#14395

DATE: FEB 87

VERSION OF SMALL MUNICIPAL WASTEWATER TREATMENT
SEQUENCING BATCH REACTORS.

AUTHOR: MELCER H.; AND OTHERS

*DESIGN; *FACILITIES; *OPERATIONS (WASTEWATER);
*EVALUATION; *SEQUENCING BATCH REACTORS; *SMALL
*WATER TREATMENT

NOTE: 79-85P.

SMALL PLANTS SEQUENCING BATCH REACTORS CAN
EXHIBIT VARIATIONS IN HYDRAULIC LOADING, AND REQUIRE
A DIFFERENT DESIGN APPROACH THAN CONTINUOUS INFLOW SYSTEMS.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW#14396

DATE: FEB 87

RECYCLING HEAVY METAL SLUDGE DEWATERING
SYSTEMS BY RECYCLING PREFORMED SLUDGE SOLIDS.

AUTHOR: KNOCKE, WILLIAM R.; KELLEY, ROY T.

*HEAVY METALS; *METALS; *OPERATIONS
*SLUDGE; *SLUDGE TREATMENT; *WASTEWATER

NOTE: 86-91P.

RECYCLING SLUDGE SOLIDS PRODUCED FLOCS THAT WERE
DENSE, AND THE RATE AND EXTENT OF DEWATERING
WAS IMPROVED.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

IRIS ACCESSION NUMBER: EW#14397

PUBLICATION DATE: FEB 87

TITLE: PLANNING A CHEMICAL HANDLING SYSTEM.

PERSONAL AUTHOR: MEHTA, HARENDRA; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *CHLORINE;
*EQUIPMENT; *FACILITIES; *HAZARDOUS MATERIALS; *MAINTENANCE;
*OPERATIONS (WASTEWATER); *SAFETY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 16-17P.

ABSTRACT: DESCRIBED ARE PROCEDURES AND FACILITIES FOR
HANDLING CHLORINE. THE PROCEDURES DESCRIBED ARE FOR
WASTEWATER TREATMENT OPERATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW#14398

PUBLICATION DATE: FEB 87

TITLE: DESIGNING AN EFFECTIVE SAFETY PROGRAM.

PERSONAL AUTHOR: FORSMAN, J. PARKER

DESCRIPTOR: *ACCIDENT PREVENTION; *OPERATIONS (WASTEWATER);
*PLANNING; *SAFETY; *SAFETY PROGRAM; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 18-20P.

ABSTRACT: DESCRIBED ARE THE CHARACTERISTICS AND THE DESIGN
OF AN EFFECTIVE SAFETY PROGRAM FOR WASTEWATER TREATMENT
OPERATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

IRIS ACCESSION NUMBER: EW#14399

PUBLICATION DATE: FEB 87

TITLE: OXYGEN: HOW LOW CAN YOU GO?

PERSONAL AUTHOR: HICKMAN, DONALD L.

DESCRIPTOR: *ACCIDENT PREVENTION; *OXYGEN LEVELS; *SAFETY;
*REGULATIONS; *OPERATIONS (WASTEWATER); *WASTEWATER
TREATMENT

DESCRIPTIVE NOTE: 21-23P.

ABSTRACT: DESCRIBED ARE SOME SAFETY CONDITIONS THAT CREATE
OR RESULT IN LOW OXYGEN LEVELS AND OXYGEN LEVELS THAT SHOULD
BE CONSIDERED DANGEROUS.

AVAILABILITY: OPERATIONS FORUM; V4 N2

NUMBER: EW014400
DATE: FEB 87

SLUDGE FLOW CONTROL. FUNDAMENTALS PROCESS
IX.

AUTHOR: HOBSON, TIM

*ACTIVATED SLUDGE PROCESS; *MANAGEMENT;
(WASTEWATER); *PROCESS CONTROL; *RETURN SLUDGE
WATER TREATMENT

NOTE: 24-29P.

THIS ARTICLE IS THE FOURTH IN A SERIES ON THE
SLUDGE PROCESS. THIS ARTICLE IS CONCERNED WITH
RATES.

OPERATIONS FORUM; V4 N2

NUMBER: EW014401

DATE: FEB 87

HAZARDOUS WASTE TREATMENT.

AUTHOR: CHEREMISINOFF, PAUL N.

*ENVIRONMENT; PUBLIC HEALTH; *HAZARDOUS WASTES;
*TECHNOLOGY; *WASTE DISPOSAL; *WASTE TREATMENT;
*COMPLIANCE

NOTE: 42-49P.

THIS REPORT EXAMINES SOME ADVANCES AND ISSUES IN
TREATMENT AND DISPOSAL SYSTEMS FOR HAZARDOUS

POLLUTION ENGINEERING; V19 N2

NUMBER: EW014402

DATE: FEB 87

AND CORROSION SCIENCE.

AUTHOR: CIGNATTA, JOHN V.

*COMPLIANCE; *CORROSION; *CORROSION CONTROL;
*POLLUTION CONTROL; *STORAGE TANKS;
*STORAGE TANKS; *WATER QUALITY; WATER POLLUTION

NOTE: 52-56P.

THIS ARTICLE CONSIDERS UNDERGROUND STORAGE TANKS
METHODS OF CORROSION. STANDARDS AND PROCEDURES FOR
COMPLIANCE ARE DISCUSSED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW014403

PUBLICATION DATE: FEB 87

TITLE: AUTOMATED POLYMER FEEDING REPLACES SETTLING PONDS.

PERSONAL AUTHOR: WATTS, MARVIN

DESCRIPTOR: *COAL WASHING; COAL; COSTS; *COAL INDUSTRY;
*OPERATIONS (WATER); *PERFORMANCE EVALUATION; *WATER
TREATMENT; *RECYCLING; *WATER POLLUTION CONTROL; *WATER
REUSE

DESCRIPTIVE NOTE: 58-59P.

ABSTRACT: DESCRIBED IS A PROCESS FOR TREATING WATER FROM
COAL-WASHING OPERATIONS TO REMOVE THE SOLIDS. THE PROCEDURE
ELIMINATES THE USE OF OUTDOOR PONDS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW014404

PUBLICATION DATE: FEB 87

TITLE: CRISIS MANAGEMENT: PREPARATION CHECKLIST.

PERSONAL AUTHOR: RICH, GERALD A.

DESCRIPTOR: *ACCIDENT PREVENTION; *CRISIS MANAGEMENT;
*EMERGENCIES; *HAZARDOUS MATERIALS; *ENVIRONMENT;
*MANAGEMENT; *PLANNING; *PUBLIC HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 62-64P.

ABSTRACT: THIS ARTICLE PRESENTS A CRISIS MANAGEMENT
PREPARATION LIST. THE INTENT OF THE PLAN IS PROVIDE PLANNING
FOR WAYS TO AVOID CRISIS AND WHAT TO DO BEFORE, DURING, AND
AFTER A CRISIS OCCURS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N2

IRIS ACCESSION NUMBER: EW014405

PUBLICATION DATE: FEB 87

TITLE: VACUUM VOC'S FROM SOIL.

PERSONAL AUTHOR: BENNEDSEN, MB

DESCRIPTOR: *CHEMICALS; *CHEMICAL SPILLS; *CLEANUP;
*EMERGENCIES; *ORGANIC CHEMICALS; *SOILS; *TECHNOLOGY;
*VACUUM TECHNOLOGY; *SOIL GAS VAPOR EXTRACTION SYSTEMS;
*VOLATILE ORGANIC COMPOUNDS; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 66-68P.

DESCRIBED ARE VACUUM TECHNIQUES FOR REMOVING
TOXIC ORGANIC COMPOUNDS FROM SOIL.

POLLUTION ENGINEERING; V19 N2

ON NUMBER: EW#144#6

DATE: FEB 87

ING QUALITY CONTROL THEORIES WORKABLE.

OR: DUMAS, ROLAND A.; AND OTHERS

*MANAGEMENT; *QUALITY CONTROL; *RESEARCH

OTE: 3#-33P.

ROVIDED ARE SUGGESTIONS FROM RECENT RESEARCH FOR
Y CONTROL THEORIES WORK.

TRAINING AND DEVELOPMENT JOURNAL; V41 N2

N NUMBER: EW#144#7

ATE: FEB 87

RMANCE APPRAISAL INTERVIEWING FOR TANGIBLE

OR: MALINAUSKAS, BARBARDA K.; CLEMENT, RONALD

*INTERVIEWING TECHNIQUES; *PERFORMANCE
STAFF DEVELOPMENT

OTE: 74-79P.

ROVIDED ARE SOME SUGGESTIONS FOR MANAGERS FOR
OVE EMPLOYEE PERFORMANCE THROUGH THEIR OWN
TECHNIQUES.

TRAINING AND DEVELOPMENT JOURNAL; V41 N2

NUMBER: EW#144#9

ATE: SEP 85

CE MANUAL FOR IMPLEMENTING TOTAL TOXIC
PRETREATMENT STANDARDS.

MONITORING; *MANAGEMENT; *INDUSTRIAL WASTES;
UALS; *REPORTING; *ORGANICS; *PRETREATMENT;
S; *STANDARDS; *USEPA; *WASTEWATER TREATMENT

ATE: 86P. PRICE: \$6.16

S MANUAL WILL BE USEFUL TO BOTH PUBLICLY OWNED

TREATMENT WORKS AND THEIR INDIRECT DISCHARGERS/INDUSTRIAL
USERS. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1)
INTRODUCTION, (2) REPORTING REQUIREMENTS, (3) INDUSTRIAL
CATEGORIES WITH TTO REQUIREMENTS, (4) GUIDANCE FOR THE
PREPARATION OF A TOXIC ORGANIC MANAGEMENT PLAN, (5) USE OF
THE COMBINED WASTESTREAM FORMULA, (6) REMOVAL CREDITS, AND
(7) TTO MONITORING GUIDANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#1441#

PUBLICATION DATE: SEP 85

TITLE: RCRA INFORMATION ON HAZARDOUS WASTES FOR PUBLICLY
OWNED TREATMENT WORKS.

DESCRIPTOR: *COMPLIANCE; *HAZARDOUS WASTES; *HAZARDOUS
WASTE GENERATORS; *HAZARDOUS WASTE TRANSPORTERS; *INDUSTRY;
*PRETREATMENT; *RCRA; *OPERATIONS (WASTEWATER); *TOXIC
SUBSTANCES; *TOXIC WASTES; *REGULATIONS; *WASTEWATER
TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 113P. PRICE: \$7.7#

ABSTRACT: THIS MANUAL PROVIDES GUIDANCE TO MUNICIPAL
PERSONNEL IN UNDERSTANDING HAZARDOUS WASTE REQUIREMENTS OF
THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) AND THE
IMPLICATIONS OF THESE RCRA REQUIREMENTS FOR THE WASTEWATER
TREATMENT OPERATIONS AND FOR LOCAL INDUSTRIES SERVED BY
TREATMENT PLANTS. THE MANUAL FOCUSES ON (1) RCRA OBLIGATIONS
FOR GENERATORS AND TRANSPORTERS OF HAZARDOUS WASTE, (2) POTW
AUTHORITY TO REGULATE TOXIC WASTE DISCHARGERS UNDER THE
GENERAL PRETREATMENT REGULATIONS, AND (3) RCRA REQUIREMENTS
FOR POTWS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14411

PUBLICATION DATE: JUL 85

TITLE: GUIDANCE MANUAL FOR PREPARATION AND REVIEW OF
REMOVAL CREDIT APPLICATIONS.

DESCRIPTOR: *CREDIT APPLICATIONS; *FUNDING; *GUIDANCE
MANUALS; *FACILITIES; *PRETREATMENT; *STANDARDS; *USEPA;
*WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 115P. PRICE: \$7.9#

ABSTRACT: THIS MANUAL IS INTENDED TO EXPLAIN THE FINAL
REMOVAL CREDITS RULE AND PROVIDE DEMONSTRATIONS, SUGGESTIONS
AND GUIDANCE FOR POTWS IN THE PREPARATIONS OF AN ACCEPTABLE
REMOVAL CREDITS APPLICATION AS OF JULY, 1985. THE MANUAL
ALSO PRESENTS GUIDANCE FOR THE APPROVAL AUTHORITY REVIEW OF
A REMOVAL CREDITS APPLICATION TO ENSURE CONSISTENCY IN
REVIEW AND APPROVAL OF APPLICATIONS, AND THE CONTINUED

34

OF REMOVAL CREDITS IMPLEMENTATION AFTER APPROVAL.
ALSO CONTAINS APPENDICES.

Y: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

ION NUMBER: EW#14412

DATE: SEP 85

ICIPAL WASTEWATER SLUDGE COMBUSTION TECHNOLOGY.
LICATION.

*CONFERENCE PROCEEDINGS; *COMBUSTION SYSTEMS;
*OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE
*TECHNOLOGY; *WASTEWATER TREATMENT; *WASTE

NOTE: 188P. PRICE: \$12.28

THIS PUBLICATION CONTAINS MATERIAL PREPARED IN
WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S
CONFERENCE ON THERMAL CONVERSION OF MUNICIPAL
CONFERENCE WAS HELD IN HARTFORD, CONNECTICUT.
THE PUBLICATION DESCRIBES AND EVALUATES VARIOUS
SLUDGE COMBUSTION SYSTEMS. THE PUBLICATION
BUT DOES NOT REPLACE USEPA TECHNOLOGY TRANSFER

ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, COLUMBUS, OH 43212

ON NUMBER: EW#14414

DATE: JUN 85

ESSFUL STATE COST REDUCTION PROCEDURES FOR
STEWATER TREATMENT FACILITIES.

*COSTS; *COST REDUCTION; *CONSTRUCTION;
*DESIGN; *PROGRAM DESCRIPTIONS; *STATE ROLE;
*WASTEWATER TREATMENT

NOTE: 25P. PRICE: \$2.50

THE PURPOSE OF THE REPORT IS TO INFORM STATE AND
CONSTRUCTION GRANTS PERSONNEL ABOUT SUCCESSFUL COST
PROCEDURES USED BY STATES TO REDUCE MUNICIPAL
TREATMENT COSTS. A SURVEY OF STATES INDICATED
THAT SEVERAL STATES WERE IMPLEMENTING COST REDUCTION PROGRAMS AT
THE TIME THIS REPORT WAS WRITTEN. THIS REPORT PROVIDES
INFORMATION ON THESE STATE PROGRAMS, AND
HOW A STATE CAN DEVELOP A COST REDUCTION PROGRAM.
THE REPORT PROVIDES MORE DETAILED INFORMATION ON THE
STEPS AT WHICH IN-PROGRESS DESIGN REVIEWS ARE
MADE AND THE SPECIFIC COST-REDUCING PROCEDURES USED BY
THE STATES.

ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14415

PUBLICATION DATE: MAR 85

TITLE: OVERVIEW OF STATE GROUND-WATER PROGRAM SUMMARIES,
VOLUME 1.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *MONITORING;
*STATE PROGRAMS; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 69P. PRICE: \$5.14

ABSTRACT: THIS REPORT (VOLUME 1 OF TWO VOLUMES) PRESENTS
INFORMATION USEPA COMPILED FROM AVAILABLE SOURCES ON THE
BASIC ELEMENTS OF GROUNDWATER PROGRAMS AND ACTIVITIES IN THE
50 STATES AND SELECTED TERRITORIES. THIS IS NOT A
COMPREHENSIVE SUMMARY OF ALL STATE GROUNDWATER PROGRAMS.
SECTIONS ARE INCLUDED ON (1) GROUNDWATER USES AND
CONTAMINATION AND (2) STATE ACTIVITIES AIMED AT PROTECTING
GROUNDWATER.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 120# CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14417

PUBLICATION DATE: NOV 86

TITLE: COST-EFFECTIVE OPERATION AND MAINTENANCE: SIX
CITIES SAVE OVER ONE MILLION DOLLARS.

DESCRIPTOR: *COST REDUCTION; *COSTS; *MANAGEMENT;
*MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE
EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 15P. PRICE: \$1.50

ABSTRACT: THIS PUBLICATION PROVIDES COST-EFFECTIVE
OPERATIONS AND MAINTENANCE IDEAS FOR WASTEWATER TREATMENT
FROM SEVERAL CITIES. THE GOOD IDEAS SUGGESTED WERE PRIMARILY
IN THREE CATEGORIES: (1) GOOD MANAGEMENT; (2) THRIFTY,
SKILLFUL OPERATIONS; AND (3) EFFECTIVE MAINTENANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 120# CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14418

PUBLICATION DATE: FEB 86

TITLE: COSTS OF AIR POLLUTION ABATEMENT SYSTEMS FOR SEWAGE
SLUDGE INCINERATORS.

PERSONAL AUTHOR: ANNAMRAJU, GOPAL; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *COSTS; *EQUIPMENT;
*INCINERATORS; *OPERATIONS (WASTEWATER); *PERFORMANCE
EVALUATION; *SLUDGE DISPOSAL; *SLUDGE INCINERATION;
*WASTEWATER TREATMENT

NOTE: SEP. PRICE: \$4.90

CAPITAL AND ANNUAL COSTS WERE CALCULATED FOR DIFFERENT AIR POLLUTION CONTROL SYSTEMS TO SEWAGE SLUDGE INCINERATORS THAT WERE USING TH FURNACES. THE SYSTEMS INVOLVED THREE TYPES OF AIR POLLUTION EQUIPMENT--WET SCRUBBERS, ESPS, AND ELECTROSTATIC PRECIPITATORS--APPLIED TO DIFFERENT PLANT SIZES (PLANTS INCINERATING 36, 72, AND 144 DRY SLUDGE PER DAY IN ONE, TWO, AND EIGHT TH FURNACES, RESPECTIVELY). THE SIX OPTIONS WERE: (1) VENTURI/TRAY SCRUBBER WITH A 40-INCH PRESSURE DROPS FILTER SYSTEM OPERATING AT 500 DEGREES FARENHEIT EQUIPPED WITH AN UPSTREAM TEMPERATURE CONTROL SYSTEM OPERATING AT 500 DEGREES FARENHEIT WITH A HEAT EXCHANGER AND A SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (2) VENTURI/TRAY SCRUBBER WITH A HEAT EXCHANGER AND A SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (3) VENTURI/TRAY SCRUBBER WITH A HEAT EXCHANGER AND A SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (4) ELECTROSTATIC PRECIPITATOR (ESP) WITH TEMPERATURE AND HUMIDITY CONTROL. (5) SAME AS (4) BUT WITH AN ADDITIONAL DOWNSTREAM WET SCRUBBER FOR SULFUR DIOXIDE REDUCTION. (6) ESP WITH UPSTREAM TEMPERATURE CONTROL AND A SULFUR DIOXIDE SCRUBBER. TECHNICAL STUDIES INDICATED THAT ALL THREE TYPES OF SYSTEMS WOULD ACHIEVE A TOTAL PARTICULATE REMOVAL OF 99 PERCENT. THE VENTURI/TRAY SCRUBBER OPTION HAD THE LOWEST CAPITAL COST, BUT ANNUAL COSTS WERE HIGH DUE TO HIGH PRESSURE DROPS AND INCREASED ENERGY USE.

ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1209 CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14419

PUBLICATION DATE: FEB 86

TITLE: PLANT DEMONSTRATION OF THE HYPERBARIC OXYZOSYNTHESIS PROCESS.

PERSONAL AUTHOR: *HYPERBARIC OXYZOSYNTHESIS FACILITIES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *SLUDGE; *SLUDGE CONDITIONING; *WASTEWATER TREATMENT

DESCRIPTOR: *HYPERBARIC OXYZOSYNTHESIS; *PLANT DEMONSTRATION; *WASTEWATER TREATMENT; *SLUDGE; *SLUDGE CONDITIONING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 84P. PRICE: \$6.84

THREE-MONTH FIELD DEMONSTRATION STUDY WAS CONDUCTED AT THE MONROE, MICHIGAN WASTEWATER TREATMENT FACILITY. THE PROCESS INVOLVED STABILIZATION OF SLUDGE UNDER PRESSURE, AND AT REDUCED TEMPERATURES, WITH OXYGEN AND OZONE FOR PERIODS OF UP TO 4 HOURS. THE PRIMARY OBJECTIVE OF THIS STUDY WAS TO DETERMINE THE EFFECT OF ENVIRONMENTAL VARIABLES ON SLUDGE STABILIZATION AS MEASURED BY THE BUCHNER FUNNEL SPECIFIC GRAVITY. THE PROCESS HAD BEEN DEMONSTRATED PREVIOUSLY AT THE MONROE WASTEWATER TREATMENT FACILITY. THE PRESENT STUDY CONFIRMED THAT ADVANTAGE, AND THE ABILITY TO REDUCE ODORS. THE FINDINGS OF THE STUDY INDICATE THAT THE OXYZOSYNTHESIS PROCESS DID NOT ACHIEVE ANY SIGNIFICANT REDUCTION IN SLUDGE DEWATERABILITY, BUT ACTUALLY DECREASED DEWATERABILITY SOMEWHAT. ALSO, THE PROCESS DID NOT ACHIEVE ANY SIGNIFICANT REDUCTION IN SLUDGE VOLATILE SOLIDS OR TOTAL CHEMICAL OXYGEN

55

DEMAND. COMMENTS RECEIVED AFTER COMPLETION OF THE PROJECT FROM OZONICS CORPORATION, WHO PRESENTLY HAS LICENSE RIGHTS TO THE PROCESS, ARE INCLUDED IN THE APPENDIX TO THE REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1209 CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14420

PUBLICATION DATE: FEB 87

TITLE: FACTORS AFFECTING BIOAVAILABILITY OF CADMIUM.

PERSONAL AUTHOR: COREY, R. B.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CADMIUM; *ANALYTICAL TECHNIQUES; *METALS; *PLANTS; *SEWAGE SLUDGE; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 321P. PRICE: \$20.26

ABSTRACT: A PROJECT WAS UNDERTAKEN TO EXAMINE REACTIONS OF METALS WITH SOILS AND SOLUBLE ORGANICS AND TO CHARACTERIZE PLANT UPTAKE BY CADMIUM (CD). THE PROJECT ADDRESSED THREE COMPONENTS OF THE SEWAGE SLUDGE-SOIL-PLANT SYSTEM RELATED TO THE BIOAVAILABILITY OF CD. THESE WERE THE MECHANISMS CONTROLLING CD ACTIVITY IN SLUDGE-AMENDED SOIL, THE ROLE OF SOLUBLE ORGANICS IN MAINTAINING HIGH SOLUTION LEVELS OF CD, AND FACTORS AFFECTING PLANT UPTAKE OF CD AT LOW, SUSTAINED LEVELS OF FREE CD IONS IN SOLUTION. THIS INFORMATION IS NECESSARY IF PLANT UPTAKE OF CD IS TO BE SIMULATED SUCCESSFULLY WITH A SOLUTE TRANSPORT MODEL. A LARGE PART OF THE RESEARCH INVOLVED METHODS DEVELOPMENT. ANALYTICAL PROCEDURES WERE DEVELOPED AND CHECKED FOR METAL ANALYSES OF PLANT TISSUE AND SOIL EXTRACTS BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY AND GRAPHITE FURNACE ATOMIC ABSORPTION. THESE PROCEDURES WERE USED TO DEVELOP METHODS FOR DETERMINING SPECIATION OF CD AND OTHER METALS IN SOIL SOLUTIONS AND IN SOIL SUSPENSIONS. THE METHODS WERE THEN USED TO STUDY THE EFFECTS OF ENVIRONMENTAL VARIABLES ON METAL SPECIATION. A RESIN-CONTROLLED, HYDROPONIC SYSTEM DEVELOPED TO CONTROL METAL ACTIVITIES AT LOW LEVELS SHOWED CD AND ZN COMPETITION FOR PLANT UPTAKE AND DEPENDENCE OF UPTAKE RATE ON THE FREE ION ACTIVITY IN SOLUTION.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1209 CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14423

PUBLICATION DATE: SEP 86

TITLE: REDUCING SOIL EROSION: OFFSITE BENEFITS.

PERSONAL AUTHOR: RIBAUDO, MARC O.

DESCRIPTOR: *CONSERVATION; *EROSION; *SOILS; *SOIL CONSERVATION; *SOIL EROSION; *OFFSITE BENEFITS; *OFFSITE DAMAGES; *POINT SOURCE POLLUTION; *NONPOINT SOURCE POLLUTION; *WATER POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

56

NOTE: 29P. MICROFICHE COPIES \$5.95 EACH

IL EROSION IS ESTIMATED TO CAUSE OVER \$7 DAMAGES WHICH OCCUR OFF THE FARM (OFFSITE) EACH ER-BASED RECREATION, NAVIGATION, WATER STORAGE MUNICIPAL AND INDUSTRIAL WATER USERS, WATER SYSTEMS, AND FROM INCREASED FLOODING. SOIL PROGRAMS WHICH REDUCE EROSION ALSO REDUCE THESE GES. THIS REPORT IS THE FIRST KNOWN ATTEMPT AT THE NATIONAL OFFSITE BENEFITS FROM SOIL THIS REPORT EXAMINES THE OFFSITE DAMAGES FROM THE NATIONAL AND REGIONAL LEVELS, ESTABLISHES A BETWEEN WATER-INDUCED EROSION AND DAMAGES, AND OFFSITE BENEFITS FROM REDUCED SOIL EROSION.

SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT
E, WASHINGTON, D.C. 20482

NUMBER: EW814424

TE: SEP 86

ANCE WITH PROFESSIONAL STANDARDS BY THE EPA
RAL.

GENERAL ACCOUNTING OFFICE; *INTERNAL AUDITS;
SSMENT REVIEWS; *OFFICE OF INSPECTOR GENERAL;
VALUATION; *RECOMMENDATIONS; *USEPA

TE: 77P. FIRST 5 COPIES FREE, ADDITIONAL

EPA OFFICE OF INSPECTOR GENERAL (OIG)
COMPLIED WITH 20 OF THE 23 AUDIT AND
STANDARDS GAO USED IN ASSESSING THE OIG'S
COMMENDATIONS FOR IMPROVING COMPLIANCE WITH
OF THREE STANDARDS ARE INCLUDED.

U.S. GENERAL ACCOUNTING OFFICE, POST OFFICE
ERSBURG, MARYLAND 20877

NUMBER: EW814425

TE: SEP 86

OGY OF LAKE ST. CLAIR WETLANDS: A COMMUNITY

HERDENDORF, CHARLES E.; AND OTHERS

OLOGY; *ECOLOGY; *LAKE ST. CLAIR;
VIRONMENTAL IMPACT; *RESEARCH REPORTS; WATER
DS

TE: 205P.

REPORT ON LAKE ST. CLAIR WETLANDS IS ONE OF
COMMUNITY PROFILES THAT DEAL WITH MARINE AND
BITATS OF ECOLOGICAL IMPORTANCE. THE
THIS REPORT IS INTENDED TO PROVIDE A BASIC

UNDERSTANDING OF THE ECOLOGICAL RELATIONSHIPS WITHIN THE LAKE ST. CLAIR WETLANDS AND THE IMPACT OF NATURAL AND MAN-INDUCED DISTURBANCES ON THE COASTAL MARSH COMMUNITY. REFERENCES ARE PROVIDED AND AN APPENDIX LISTS THE DIMENSIONS AND OWNERSHIP OF THE MAJOR MARSHES AND THE IMPORTANT BIOLOGICAL SPECIES OF ALGAE, MACROPHYTES, INVERTEBRATES, FISH, AMPHIBIANS, REPTILES, BIRDS, AND MAMMALS OCCURRING IN THE COASTAL MARSHES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT
PRINTING OFFICE, WASHINGTON, D.C. 20482

IRIS ACCESSION NUMBER: EW814426

PUBLICATION DATE: JUN 86

TITLE: REPORT TO EPA: MUNICIPAL COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM.

DESCRIPTOR: *CLEAN WATER ACT; *COMPLIANCE; *FEDERAL ROLE;
*STATE ROLE; *LOCAL ROLE; *RECOMMENDATIONS; *MUNICIPAL
COMPLIANCE; *NATIONAL POLLUTANT DISCHARGE ELIMINATION
SYSTEM; USEPA; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THIS REPORT ENCOMPASSES A NUMBER OF SUBJECT SECTIONS THAT LEAD TO A SERIES OF RECOMMENDATIONS TO BE CONSIDERED FOR IMPROVED COMPLIANCE. DESCRIBED ARE THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE STATUS OF MUNICIPAL COMPLIANCE. RECOMMENDATIONS FOR IMPROVING COMPLIANCE ARE INCLUDED.

AVAILABILITY: EPA CONSTRUCTION GRANTS PROGRAM, OFFICE OF MUNICIPAL POLLUTION CONTROL, WASHINGTON, D.C. 20288

IRIS ACCESSION NUMBER: EW814427

PUBLICATION DATE: 86

TITLE: AN INTRODUCTION TO SEWAGE TREATMENT.

DESCRIPTOR: *PRELIMINARY TREATMENT; *PRIMARY TREATMENT;
*OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; *TERTIARY
TREATMENT; *WASTEWATER TREATMENT; *WASTE DISPOSAL; *UNITED
KINGDOM; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 51P. PRICE: \$6.88 NON-MEMBERS, \$4.88
IWPC MEMBERS.

ABSTRACT: FIRST PUBLISHED IN 1968 THIS BOOK WAS REVISED FOR A SECOND EDITION IN 1968 AND HAS BEEN COMPLETELY REVISED FOR THIS THIRD EDITION. THE BOOK OUTLINES THE REASONS FOR SEWAGE TREATMENT AND THE MAIN PROCESSES. THE PROCESSES INCLUDE PRELIMINARY AND PRIMARY TREATMENT; SECONDARY TREATMENT BY BIOLOGICAL FILTRATION AND THE ACTIVATED SLUDGE PROCESS; TERTIARY TREATMENT; SLUDGE TREATMENT AND DISPOSAL; AND UTILISATION OF THE PRODUCTS OF SEWAGE TREATMENT. THE FINAL SECTION SUMMARISES THE ADMINISTRATION OF SEWAGE TREATMENT IN THE UNITED KINGDOM.

37

INSTITUTE OF WATER POLLUTION CONTROL, 53
MAIDSTONE, KENT ME16 8JH

IRIS NUMBER: EW014434

PUBLICATION DATE: SEP 86

TITLE: THE NATION'S WATER: KEY UNANSWERED QUESTIONS ABOUT
RIVERS AND STREAMS.

DESCRIPTOR: *CONSTRUCTION GRANTS PROGRAM; *POLICIES; USGAO;
*ARCHIVE REVIEWS; *TRENDS; *WATER QUALITY; *WATER
CONTROL; *POLLUTION SOURCES; *RECOMMENDATION;
*TREATMENT; *RESEARCH METHODOLOGY

NOTE: 165P. FIRST FIVE COPIES FREE AS LONG AS
ADDITIONAL COPIES \$2.00

ABSTRACT: TO ASSIST THE CONGRESS AND THE ADMINISTRATION IN
THE FUTURE OF THE NATIONAL WATER-QUALITY PROGRAM,
GAO DID AN INFORMATION SYNTHESIS OF FIVE RECENT
STUDIES THAT ASSESSED THE TECHNICAL STRENGTH OF THE
METHODS THEY USED TO REACH THEIR CONCLUSIONS. GAO
IDENTIFIED THE GAPS IN CURRENT KNOWLEDGE ABOUT THE NATION'S
WATER. IN EXAMINING THE FIVE STUDIES, GAO PURSUED
FOUR QUESTIONS: (1) WHAT IS THE PRESENT CONDITION
OF THE NATION'S WATER QUALITY? (2) HOW HAS THE NATION'S
WATER QUALITY CHANGED OVER TIME? (3) WHAT POLLUTION SOURCES
AFFECT WATER QUALITY? AND (4) WHAT HAS BEEN THE EFFECT OF
CONSTRUCTION GRANTS PROGRAM ON WATER QUALITY? GAO DID
NOT DRAW ANY GENERALIZABLE CONCLUSIONS ON ANY OF THE
QUESTIONS AND CONCLUDED THAT LITTLE CONCLUSIVE
EVIDENCE IS AVAILABLE TO THE CONGRESS TO USE IN POLICY
DECISIONS ON THE NATION'S WATER QUALITY.

U.S. GENERAL ACCOUNTING OFFICE, PO BOX 6015,
BETHESDA, MARYLAND 20877

IRIS NUMBER: EW014437

PUBLICATION DATE: 86

TITLE: MANUAL FOR TRAINING RECLAMATION INSPECTORS IN THE
FIELD OF HYDROLOGY.

AUTHOR: CURTIS, WILLIE R.; AND OTHERS

DESCRIPTOR: *DRAINAGE; *EROSION; *HYDROLOGY; *MONITORING;
*EDUCATION; *RECLAMATION; *TRAINING MANUALS;
*INSPECTION; *SURFACE MINING; *WATER QUALITY;
*WATER CONTROL; *MINING

NOTE: 62P. PRICE: \$6.00

ABSTRACT: THIS HANDBOOK IS INTENDED TO BE A DESK REFERENCE
FOR HYDROLOGISTS WHO WISH TO ACHIEVE A BASIC UNDERSTANDING OF
WHAT IT RELATES TO SURFACE MINING AND RECLAMATION.
IT DESCRIBES CLUES AND INDICATIONS OF POTENTIAL
PROBLEMS AND BEST WAYS TO PREVENT OR MITIGATE THEM, AND
THE BEST OBSERVATION AND SAMPLING TECHNIQUES.

AVAILABILITY: SOIL CONSERVATION SOCIETY OF AMERICA, 7515 NE
ANKENY ROAD, ANKENY, IOWA 50021-9764

IRIS ACCESSION NUMBER: EW014439

PUBLICATION DATE: 86

TITLE: THE SELF-HELP HANDBOOK.

PERSONAL AUTHOR: SCHAUTZ, JANE W.

DESCRIPTOR: *COST REDUCTION; COSTS; CONSTRUCTION;
*FACILITIES; *GUIDELINES; EQUIPMENT; MANAGEMENT; PLANNING;
*OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *LOCAL ROLE;
*SMALL COMMUNITIES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 199P.

ABSTRACT: THIS HANDBOOK IS AN INTEGRAL PART OF A NEW
PROGRAM IN NEW YORK SPONSORED BY THE DEPARTMENTS OF STATE,
ENVIRONMENTAL CONSERVATION, AND HEALTH. IT FOCUSES ON
IMPROVING OR CREATING WATER AND WASTEWATER SYSTEMS IN SMALL
LOCALITIES AND REDUCING CONSTRUCTION OR RECONSTRUCTION COSTS
TO AFFORDABLE LEVELS. SELF-HELP IS BASED ON THE PRINCIPLE
THAT EACH LOCALITY MUST OPTIMIZE ITS OWN RESOURCES AND
MOTIVATE ITS PEOPLE TO RECOGNIZE THE PROBLEM AND PROVIDE A
SOLUTION. THE BOOK CAN GIVE INSIGHTS TO THOSE INVOLVED IN
LOCAL WASTEWATER TREATMENT DILEMMAS AND OFFER GUIDELINES FOR
DEALING WITH THOSE PROBLEMS.

AVAILABILITY: THE RENSSELEARVILLE INSTITUTE,
RENSSELEARVILLE, NY 12147

IRIS ACCESSION NUMBER: EW014440

PUBLICATION DATE: 86

TITLE: PROCEEDINGS OF THE THIRD ANNUAL EASTERN GROUNDWATER
CONFERENCE.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CONTAMINATION;
*GROUNDWATER; *MANAGEMENT; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 681P. PRICE: \$35.00 NWA MEMBERS,
\$43.75 NON-MEMBERS

ABSTRACT: THE CONFERENCE COVERED MANY TOPICS INCLUDING:
LOCAL, STATE, AND FEDERAL GROUNDWATER MANAGEMENT STRATEGIES,
PESTICIDE CONTAMINATION OF GROUNDWATER, GROUNDWATER
DEVELOPMENT, AND DECONTAMINATION IN WELLS. IN ALL, 42 PAPERS WERE
PRESENTED AT THE CONFERENCE WHICH WAS CO-SPONSORED BY THE
NATIONAL WATER WELL ASSOCIATION, THE MAINE GEOLOGICAL
SURVEY, THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION,
AND THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL
COMMISSION.

AVAILABILITY: NATIONAL WATER WELL ASSOCIATION, 6375
RIVERSIDE DR., DUBLIN, OH 43017

ON NUMBER: EW014441
DATE: 86

L WATER SYSTEM TREATMENT COSTS.

AUTHOR: GUMERMAN, ROBERT C.; AND OTHERS

*COSTS; *DRINKING WATER; *CONSTRUCTION;
*MANAGEMENT; *OPERATIONS (WATER); *SMALL
*UNIT PROCESSES; *WATER TREATMENT

NOTE: 17P. PRICE: \$40.00

COST DATA FOR UNIT PROCESSES CAPABLE OF REMOVING
INCLUDED IN THE NATIONAL PRIMARY DRINKING
ATIONS, FROM SMALL WATER SYSTEMS--SYSTEMS WITH A
OF LESS THAN 1 MGD ARE PRESENTED IN THIS BOOK.
AND OPERATION AND MAINTENANCE COST DATA ARE
OR 45 CENTRALIZED TREATMENT UNIT PROCESSES
TO BE ESPECIALLY APPLICABLE TO CONTAMINANT
THE TREATMENT AND DISPOSAL OF SLUDGE OR BRINES
HE TREATMENT PROCESSES. IN ADDITION FIVE POINT-
MENT TECHNIQUES, AND THEIR COST DATA, ARE ALSO

NOYES PUBLICATIONS, MILL ROAD AT GRAND AVE.,
J 07656

ON NUMBER: EW014442

DATE: SEP 86

POLLUTION BY FERTILIZERS AND PESTICIDES.

*AGRICULTURE; *ENVIRONMENT; *ANIMAL WASTES;
*FERTILIZERS; *MANAGEMENT; *PESTICIDES; *POLICIES;
*RESEARCH REPORTS; *WATER QUALITY; *WATER POLLUTION

NOTE: 144P. PRICE: \$12.00

THIS REPORT REFLECTS THE GROWING CONCERN ON THE
AGRICULTURAL AND ENVIRONMENTAL EXPERTS THAT
ANIMAL WASTES, AND PESTICIDES ARE CAUSING WATER
TO EXCEED ACCEPTABLE LEVELS IN OECD COUNTRIES.
LOOKS AT THE CHARACTERISTICS OF THE POLLUTANTS,
THEIR CYCLES AND PROCESSES, THE POTENTIAL
THEY POSE TO HEALTH, AND THEIR IMPACT ON THE
ENVIRONMENT. IT ALSO PROPOSES PREVENTIVE MEASURES AND
RESEARCH NEEDS, CHANGES IN PRACTICE AND
MANAGEMENT, AS WELL AS POLICY MEASURES ON THE PART
OF GOVERNMENTS TO REVERSE THIS TREND.

OECD PUBLICATIONS AND INFORMATION CENTER,
1800 MANNING AVE., N.W., SUITE 1207, WASHINGTON, DC

IRIS ACCESSION NUMBER: EW014444
PUBLICATION DATE: 86

TITLE: REVIEWS IN ENVIRONMENTAL TOXICOLOGY.

PERSONAL AUTHOR: HODGSON, E.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL IMPACT;
*PUBLIC HEALTH; *RESEARCH REVIEWS; *TOXICOLOGY

DESCRIPTIVE NOTE: 354P. PRICE: \$92.50

ABSTRACT: THIS SECOND VOLUME IN THE SERIES CONTAINS REVIEWS
ON TOPICS RANGING FROM THE EFFECTS OF METALS IN THE
ENVIRONMENT TO THE TRICHOHECENE MYCOTOXINS. THIS VOLUME
RECOGNIZES THE NUMBER OF DISCIPLINES INCLUDED IN THE
ENVIRONMENTAL TOXICOLOGY FIELD, AS WELL AS THE DIVERSITY
AMONG PROFESSIONALS WORKING IN THE FIELD.

AVAILABILITY: ELSEVIER SCIENCE PUBLISHERS, BOX 211, 1000
AE, AMSTERDAM, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW014445

PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL SOFTWARE GUIDE.

DESCRIPTOR: *COMPUTER SOFTWARE; *COMPLIANCE; *ENVIRONMENT;
*GUIDES; *MANAGEMENT; *MODELING

DESCRIPTIVE NOTE: PRICE: \$79.95 NONMEMBERS, FREE TO
MEMBERS

ABSTRACT: THE GUIDE COVERS BOTH COMMERCIAL AND GOVERNMENT
SOURCES OF SOFTWARE IN THE FIELDS OF DATA MANAGEMENT FOR
COMPLIANCE, ATMOSPHERIC MODELLING, SOLID WASTE MANAGEMENT
AND OTHER APPLICATIONS OF INTEREST TO ENVIRONMENTAL AND
SAFETY ENGINEERS AND MANAGERS.

AVAILABILITY: CAE CONSULTANTS, INC., 41 TRAVERS AVE.,
YONKERS, NY 10705

IRIS ACCESSION NUMBER: EW014446

PUBLICATION DATE: 86

TITLE: METHODS FOR COLLECTION AND ANALYSIS OF WET
DEPOSITION, CONTRACT REPORT NO. 331.

PERSONAL AUTHOR: PEDEN, MARK E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ACID DEPOSITION;
*LABORATORY PROCEDURES; *MONITORING; *SAMPLING; *QUALITY
CONTROL

DESCRIPTIVE NOTE: 267P. PRICE: \$25.00

ABSTRACT: THIS IS AN ANALYTICAL METHODS MANUAL FOR USE IN

STUDIES. DETAILED METHODS FOR DOCUMENTING INORGANIC CONSTITUENTS IN WET DEPOSITION AS WELL AS FOR THE COLLECTION, PRESERVATION, AND HANDLING ARE PRESENTED. REPRESENTATIVE PRECISION AND BIAS PROVIDED FOR EACH METHODOLOGY AS WELL AS QUALITY CONTROL PROTOCOLS TO ENSURE ACCURATE

PRINCIPAL INVESTIGATOR: ILLINOIS STATE WATER GRIFFITH DRIVE, CHAMPAIGN, IL 61820

IRIS NUMBER: EW014447

PRIMER FOR COMPUTERIZED WASTEWATER APPLICATIONS.

*CASE HISTORIES; *COMPUTER APPLICATIONS; *MANUALS; *TECHNOLOGY; *OPERATIONS *REFERENCE MATERIALS; *WASTEWATER TREATMENT

NOTE: PRICE: \$26.00 MEMBERS, \$35.00 NONMEMBER

THIS MANUAL CAN SERVE AS A PRIMER TO THOSE WHO ARE INTERESTED IN LEARNING ABOUT COMPUTER APPLICATIONS IN WASTEWATER TREATMENT. THIS BOOK INCLUDES INFORMATION ON: (1) STARTING UP YOUR SYSTEM; (2) CASE HISTORIES FROM VARIOUS PLANTS; (3) GLOSSARY OF TERMS; AND (4) LIST OF REFERENCES.

WATER POLLUTION CONTROL FEDERATION, 601 WYTHE AVENUE, VA 22314-1994

IRIS NUMBER: EW014448

DATE: 06

AUTHORS: MITSCH, WILLIAM J.; GOSSELINK, JAMES G.

*CONSERVATION; *WETLANDS *ECOLOGY; *ENVIRONMENT;

NOTE: 539P. PRICE: \$44.95

THIS VOLUME PRESENTS A DUAL PICTURE OF WETLANDS SHOWING THEIR STRUCTURE AND FUNCTION ALONG WITH THEIR CHARACTERISTICS AND SIGNIFICANCE, INCLUDING PHYSICAL FUNCTION, AND MANAGEMENT OF THESE IMPORTANT WETLANDS. THE AUTHORS DISCUSS GENERAL CHARACTERISTICS OF WETLANDS, SUCH AS DEFINITION, HYDROLOGY, WETLAND SUCCESSION, AND SPECIFIC TYPES OF WETLAND ECOSYSTEMS. A CHECKLIST IS GIVEN TO WETLANDS IN THE U.S.

WILEY-INTERSCIENCE, JOHN WILEY & SONS, INC., VAN NOSTRAND REINHOLD, 115 FIFTH AVENUE, NEW YORK, NY 10003

IRIS ACCESSION NUMBER: EW014449

PUBLICATION DATE: 86

TITLE: COLD CLIMATE UTILITIES MANUAL.

PERSONAL AUTHOR: SMITH, DANIEL W.

DESCRIPTOR: *CLIMATE; *COLD TEMPERATURES; *MANAGEMENT; *MANUALS; *PLANNING; *UTILITIES; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *WASTEWATER COLLECTION; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 888P. PRICE: \$60.00

ABSTRACT: THIS MANUAL INCLUDES PLANNING AND PRELIMINARY CONSIDERATIONS FOR COLD CLIMATE UTILITIES, WATER SOURCE DEVELOPMENT, TREATMENT, STORAGE, AND DISPOSAL AND WASTEWATER COLLECTION, TREATMENT, AND DISPOSAL. TWELVE APPENDICES ARE PROVIDED.

AVAILABILITY: CANADIAN SOCIETY FOR CIVIL ENGINEERING, 700-2850 MANSFIELD STREET, QUEBEC, CANADA H3A 1Z2

IRIS ACCESSION NUMBER: EW014450

TITLE: DIRECTORY OF CERTIFICATION AND TRAINING CONTACTS.

DESCRIPTOR: *ABC; *ASSOCIATION OF BOARDS OF CERTIFICATION; *CERTIFICATION; *DIRECTORIES; *INDUSTRIAL WASTES; *OPERATORS; SOLID WASTES; *TRAINING; *WATER; *WASTEWATER; *HAZARDOUS WASTES

DESCRIPTIVE NOTE: PRICE: \$10.00

ABSTRACT: THE LATEST EDITION OF THIS DIRECTORY LISTS THE NAMES, ADDRESSES, AND PHONE NUMBERS FOR THE CERTIFICATION AND TRAINING CONTACT PERSONS FOR OVER 100 WATER, WASTEWATER, INDUSTRIAL WASTE, SOLID WASTE, AND HAZARDOUS WASTE CERTIFYING AUTHORITIES.

AVAILABILITY: ABC, PO BOX 786, AMES, IA 50010

IRIS ACCESSION NUMBER: EW014451

TITLE: MIDDLE EAST AND WORLD WATER DIRECTORY.

DESCRIPTOR: *AFRICA; *CONTRACTORS; *DIRECTORIES; *CONSULTANTS; *MANUFACTURERS; *MIDDLE EAST; *UTILITIES; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE: \$110.00

ABSTRACT: THE 1986/1987 EDITION OF THIS TWO VOLUME SET IS AN IMPORTANT GUIDE TO LOCAL AND NATIONAL FIRMS SERVING THE WATER AND SEWAGE INDUSTRY OF THE MIDDLE EAST AND AFRICA, INCLUDING INTERNATIONAL MANUFACTURERS, EXPORTERS, CONSULTANTS, CONTRACTORS, AND OTHER FIRMS INVOLVED IN SELLING AND WORKING WITH THE WATER INDUSTRY OF THIS REGION. OVER 6,000 PURCHASERS OF WATER EQUIPMENT IN THE MIDDLE EAST



ARE LISTED IN VOLUME I, WHILE VOLUME II PROVIDES ON THOSE COMPANIES THAT SELL WATER AND EQUIPMENT, PIPES, VALVES, PUMPS, DESALINATION DEVICES, INSTRUMENTS, AND SO FORTH.

BY: MONA CHATJLA, SERVICE DEPARTMENT, ARAB WATER BOARD, BOX 13 5121, BEIRUT, LEBANON

CONFERENCE NUMBER: EW#14452

TOPICS: LIXIVANTS AND LEACHATE.

*CONFERENCE PROCEEDINGS; *LEACHATE; *LINERS; *MANAGEMENT; *SOLID WASTES; *TECHNOLOGY; *WASTE POLLUTION CONTROL

NOTE: PRICE: \$38.00 NONMEMBERS, \$25.00 MEMBERS.

THIS CONFERENCE DEVOTED TWO DAYS TO PAPERS THAT DESCRIBE THE DESIGN AND THE MANAGEMENT OF LEACHATE FROM SOLID WASTE DISPOSAL FACILITIES. THE PROCEEDINGS COVER: LIXIVANTS ON LINER TECHNOLOGIES; THE FORMATION, TREATMENT, AND MANAGEMENT OF LEACHATE; AND TECHNOLOGIES AND PRACTICES.

BY: NATIONAL CONFERENCE ON GOVERNMENTAL REFUSE COLLECTION AND DISPOSAL, P.O. BOX 7219, SILVER SPRING, MD 20918

CONFERENCE NUMBER: EW#14454

PUBLICATION DATE: 86

TOPICS: CHLORINATED DIOXINS AND DIBENZOFURANS IN

AUTHOR: RAPPE, CHRISTOFFER; AND OTHERS

*ANALYTICAL TECHNIQUES; *CHEMICALS; *DIOXINS; *DIOXINS; *CONFERENCE PROCEEDINGS; *DIBENZOFURANS; *PUBLIC HEALTH; *ENVIRONMENTAL IMPACT; *TOXIC SUBSTANCES

NOTE: 570P.

THIS BOOK PROVIDES DATA ON HUMAN EXPOSURE AND TECHNIQUES DEVELOPED IN THE CONTINUING EFFORT TO REDUCE CONTAMINATION BY CHLORINATED DIOXINS AND DIBENZOFURANS. THE INFORMATION WAS COMPILED FROM PROCEEDINGS OF A SYMPOSIUM HELD AT THE 189TH NATIONAL MEETING OF THE CHEMICAL SOCIETY.

BY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, ANN ARBOR MI 48116

IRIS ACCESSION NUMBER: EW#14455

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT: REDUCING THE RISK.

PERSONAL AUTHOR: GODMAN, BENJAMIN A.; AND OTHERS

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *FACILITIES; *MANAGEMENT; *TECHNOLOGY; *WASTE MANAGEMENT; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 336P. PRICE: CLOTH-\$64.95, PAPER-\$34.95

ABSTRACT: IN THIS WORK, FACTS AND STRATEGIES NEEDED FOR SELECTING RESPONSIBLE HAZARDOUS WASTE MANAGEMENT ARE PROVIDED. GUIDELINES ARE GIVEN FOR COMPARING FACILITIES ON THE BASIS OF SITE, MANAGEMENT, AND TECHNOLOGY. TEN OF THE LARGEST COMMERCIAL HAZARDOUS WASTE MANAGEMENT FIRMS ARE EVALUATED AND RANKED.

AVAILABILITY: ISLAND PRESS, BOX 7, COVELO, CA 95428

IRIS ACCESSION NUMBER: EW#14456

PUBLICATION DATE: 86

TITLE: REMOVAL OF VOLATILE ORGANIC CHEMICALS FROM POTABLE WATER.

DESCRIPTOR: *CHEMICALS; *COSTS; *DRINKING WATER; *OPERATIONS (WATER); *ORGANIC CHEMICALS; *SAFE DRINKING WATER ACT; *TECHNOLOGY; *WATER TREATMENT; *VOLATILE ORGANIC CHEMICALS

DESCRIPTIVE NOTE: PRICE: \$36.00

ABSTRACT: THIS VOLUME REVIEWS TECHNOLOGIES TO REMOVE VOLATILE ORGANIC CHEMICALS FROM POTABLE WATER AND PROVIDES COST ESTIMATES FOR THESE TECHNOLOGIES. THE INFORMATION IS INTENDED TO ASSIST IN IDENTIFYING THE BEST TREATMENT METHODS AVAILABLE AT A REASONABLE COST AND PURSUANT TO THE SAFE DRINKING WATER ACT.

AVAILABILITY: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC., NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW#14457

PUBLICATION DATE: 86

TITLE: THE ROLE OF THE OCEANS AS A WASTE DISPOSAL OPTION.

PERSONAL AUTHOR: KULLENBERG, G.

DESCRIPTOR: *MANAGEMENT; *POLICIES; *ECOLOGY; *ECONOMICS; *LEGISLATION; *OCEANOGRAPHY; *NATO; *RESEARCH; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 736P. PRICE: \$117.00

65

66

41

THE PAPERS INCLUDED IN THIS VOLUME DEAL WITH MARINE SCIENCES, ENGINEERING, ECOLOGY, FRESHWATER ECONOMY, LEGISLATION AND PUBLIC PERCEPTION. OVERVIEWS COVER EXAMPLES OF NEW WASTE DISPOSAL AND THE OPTIONS AVAILABLE TO DEAL WITH THEM; THE DISCOVERING EFFECTS OF WASTE DISPOSAL OF VARIOUS ECOLOGICAL SYSTEMS CHARACTERIZED BY VERY DIFFERENT DISTRIBUTIONS AS A FUNCTION OF FREQUENCY; A SUITE OF MANAGEMENT OPTIONS AND POLICY-MAKING APPROACHES. A PART OF THE DISTRIBUTION, PRODUCTION AND USE OF SEA WATER AND SOIL RESOURCES ILLUSTRATES THE USE OF THE DEEP SEA AS AN OPTION FOR WASTE DISPOSAL. CONTRIBUTIONS DEAL WITH GENERIC QUESTIONS IN WASTE DISPOSAL OF SEWAGE, SEWAGE SLUDGE, ORGANIC NUTRIENTS, CONSIDERING COMPARISONS BETWEEN A GLOBAL BASIS, AS WELL AS SOME PARTICULAR DETAIL. DISPOSAL OF RADIOACTIVE WASTES IS ALSO COVERED WITH APPRAISALS OF OPTIONS OF DISPOSAL AND BETWEEN PROJECTED EFFECTS OVER VARIOUS TIME PERIODS. VARIOUS TECHNIQUES FOR INVESTIGATING AND MEASURING BIOLOGICAL EFFECTS OF WASTE DISPOSAL ARE COVERED MAINLY THE MARINE ENVIRONMENT. IN ADDITION, CONTAINMENT VERSUS DISPERSION OF WASTE IS COVERED AS A SEPARATE THEME.

WILEY-INTERSCIENCE PUBLISHING CO., 101 PHILIP DRIVE, JOHN WILEY & SONS, INC., NEW YORK, NY 10017

IRIS NUMBER: EW014450

INTELLIGIBLE PUMPING SYSTEMS: THE MODERN AND SAFE

*COSTS; *AUDIOVISUAL AIDS; *DESIGN; *EQUIPMENT; *FILM SLIDES; *SUBMERSIBLE PUMPS; *MAINTENANCE;

NOTE: 73 COLOR SLIDES & TAPE, VIEWED FOR 2-DAYS, PURCHASED-\$100.00

INCLUDES 73 COLOR SLIDES AND A PROFESSIONALLY PREPARED WHICH DESCRIBES PUMP AND SYSTEM DESIGN, SAFETY ADVANTAGES, CONSTRUCTION, MAINTENANCE AND COST INFORMATION.

THE SUBMERSIBLE WASTEWATER PUMP ASSOCIATION, 600 N. LAUREL STREET, CHICAGO, IL 60605

IRIS NUMBER: EW014459

TOXICOLOGY HANDBOOK.

*ENVIRONMENT; *PUBLIC HEALTH; *HANDBOOKS; *REPORTS; *RESEARCH DESIGN; *RISK ASSESSMENT;

NOTE: 216P. SOFTCOVER, ALSO AVAILABLE ON MICROFILM

THIS HANDBOOK INCLUDES CHAPTERS ON: (1)

EXTRAPOLATIONS OF TOXICOLOGICAL DATA FROM ANIMALS TO HUMANS; (2) THE FUNDAMENTAL CONCEPTS OF TOXICOLOGY; (3) DOSE-RESPONSE RELATIONSHIPS; (4) IMPORTANT PARAMETERS IN TOXICITY ASSESSMENTS; (5) PROTOCOLS USED IN TOXICOLOGICAL STUDIES; AND (6) EXPOSURE AND RISK ASSESSMENT.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., DEPT. TS, 966 HUNGERFORD DRIVE, #24, ROCKVILLE, MD 20858

IRIS ACCESSION NUMBER: EW014460

TITLE: VADOSE ZONE MODELING OF ORGANIC POLLUTANTS.

PERSONAL AUTHOR: HERN, S. C.; MELANCON, S. M.

DESCRIPTOR: *CHEMICALS; *CONTAMINATION; *GROUNDWATER; *MODELS; *ORGANIC POLLUTANTS; *CHEMICAL TRANSPORT; *VADOSE ZONE; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: \$49.95

ABSTRACT: THIS BOOK IS ORGANIZED INTO TWO MAJOR SECTIONS: OVERVIEW OF CHEMICAL FATE AND TRANSPORT PROCESSES IN THE VADOSE ZONE, AND CHEMICAL PROCESSES, PARAMETER ESTIMATION AND VARIABILITY IN THE VADOSE ZONE. IT ALSO INCLUDES ONE APPENDIX.

AVAILABILITY: LEWIS PUBLISHERS INC., 121 S. MAIN ST., PO DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW014461

PUBLICATION DATE: 84

TITLE: WASTE.

PERSONAL AUTHOR: CORCORAN, LYNN

DESCRIPTOR: *AUDIOVISUAL AIDS; *HAZARDOUS WASTES; *INSTRUCTIONAL MATERIALS; *RECYCLING; *WASTE DISPOSAL; *WASTE REDUCTION; *SOLID WASTES; *WASTEWATER TREATMENT; *VIDEOTAPES

DESCRIPTIVE NOTE: VIDEO-29 MIN., PURCHASE \$150.00, RENTAL \$55.00

ABSTRACT: THIS VIDEO DOCUMENTARY EXAMINES THE MANY FACETS OF WASTE DISPOSAL. IT BEGINS AND ENDS WITH A LOOK AT THE ISSUES OF HAZARDOUS WASTES, CITED AS THE MOST COSTLY AND DIFFICULT TO SOLVE. TOPICS FEATURED ARE TOXIC WASTES, GARBAGE COLLECTION AND DISPOSAL, SEWAGE TREATMENT, DISPOSAL ALTERNATIVES SUCH AS SEPARATION AND RETURNABLE CONTAINER LAWS, "SPACE GARBAGE," AND NUCLEAR WASTE. IN EACH VIGNETTE THE ROLE OF OUR LIFE-STYLE IN CREATING THE ISSUE BECOMES EVIDENT. INTERVIEWS WITH KNOWLEDGEABLE EXPERTS ADD AN IMPORTANT DIMENSION TO THE DOCUMENTARY.

AVAILABILITY: BULLFROG FILMS, OLEY, PA 19647



ON NUMBER: EW014462

DATE: 85

NATIONAL WATER SUMMARY.

*STATE TRENDS; *NATURAL RESOURCES; *MANAGEMENT;
TRENDS; *WATER RESOURCES; *WATER SUPPLY; *WATER
REPORTS; *SURVEYS

NOTE: 506P. PRICE: \$31.00

THIS REPORT FOCUSES ON SURFACE WATER RESOURCES
AS A STATE-BY-STATE SUMMARY THAT IS ONE OF THE
COMPREHENSIVE ASSEMBLED ON THE OCCURRENCE, USE, AND
OF THE NATION'S SURFACE-WATER RESOURCES. SEVERAL
WATER ISSUES INCLUDE THE EFFECTS OF DAMS AND
ON SURFACE-WATER HYDROLOGY; SNOW, ICE, CLIMATE
CONTRIBUTIONS TO WATER SUPPLY; MANAGING WATER
INCREASE WATER AVAILABILITY; VOLUNTARY TRANSFERS
IN THE WEST; AND IMPROVED, REAL-TIME COMMUNICATION
ON ON HYDROLOGICAL CONDITIONS. THE STATE-BY-
STATES, WHICH WERE PREPARED AS PART OF THE ONGOING
PROGRAM OF THE U.S. GEOLOGICAL SURVEY WITH MORE
STATE, FEDERAL, AND LOCAL AGENCIES, CONTAIN MULTI-
MATERIAL SHOW PRINCIPAL RIVER BASINS AND RESERVOIRS,
VARIATIONS IN PRECIPITATION AND STREAMFLOWS,
DRAINAGE CHARACTERISTICS, SURFACE-WATER USES IN
AND A SECTION DESCRIBING SURFACE-WATER

U.S. GEOGRAPHICAL SURVEY, BOOKS AND OPEN-FILE
CENTRAL CENTER, BLDG. 41, BOX 25425, DENVER, CO

NUMBER: EW014464

DATE: 86

SUBSTANCES CONTROLS PRIMER, SECOND EDITION.

AUTHOR: WORBEK, MARY DEVINE

DESCRIPTOR: *CHEMICALS; *LEGISLATION; *MANAGEMENT;
CONTROL; *SAFETY; *PUBLIC HEALTH; *TOXIC
HAZARDOUS WASTES

NOTE: 221P. PRICE: \$20.00

THIS PRIMER COMPILES AND EXPLAINS--IN NON-
TECHNICAL LANGUAGE--THE PRINCIPAL HEALTH, SAFETY, AND
LAWS ON CHEMICAL MANAGEMENT. IT FOCUSES ON THE
IN THE RESOURCE CONSERVATION AND RECOVERY ACT,
EPA JURISDICTION OVER HAZARDOUS WASTES,
-QUANTITY WASTE PRODUCERS WITHIN ITS SCOPE,
CONTROL OF LEAKS FROM UNDERGROUND STORAGE
TANKS, MODIFICATIONS TO THE COMPREHENSIVE
RESPONSE, COMPENSATION AND LIABILITY ACT--THE
LAW--ARE OUTLINED, INCLUDING THE LATEST
EFFORTS TO CREATE A RIGHT-TO-KNOW LAW FOR
EMPLOYERS.

AVAILABILITY: DWA BOOKS DISTRIBUTION CENTER, 300 RARITAN
CENTER PARKWAY, CN 94, EDISON, NJ 08816

IRIS ACCESSION NUMBER: EW014465

PUBLICATION DATE: 85

TITLE: WATER IN THE WEST; WESTERN WATER FLOWS TO THE
CITIES.

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.; AND OTHERS

DESCRIPTOR: *ISSUES; *MANAGEMENT; *PLANNING; *NATURAL
RESOURCES; *WATER SUPPLY; *SOUTHWEST (U.S.)

DESCRIPTIVE NOTE: 217P. PRICE: \$25.00

ABSTRACT: THIS IS A COMPREHENSIVE AND CLEARLY ORGANIZED
REFERENCE TOOL FOR UNDERSTANDING THE COMPLEX WATER ISSUES
FACING THE SOUTHWEST. THE DEVELOPMENT OF STRONG COMPETITION
FOR CONTROL OF WATER RESOURCES IS OUTLINED AND METHODS BEING
USED TO MAKE DECISIONS ARE DESCRIBED. A FEW OF THE IMPORTANT
ISSUES DISCUSSED ARE THE IMPACT OF URBAN RESOURCE NEEDS IN
THE SOUTHWEST, DISPUTES CONCERNING THE OWENS VALLEY, MONO
BASIN AND THE CITY OF LOS ANGELES, AND THE SALT RIVER
CONTROVERSY IN CENTRAL ARIZONA. THIS BOOK IS THE THIRD IN A
SERIES OF VOLUMES ABOUT WATER IN THE WEST.

AVAILABILITY: ISLAND PRESS, BOX 7, CORELO, CA 95428

IRIS ACCESSION NUMBER: EW014466

PUBLICATION DATE: 86

TITLE: SCARCE WATER AND INSTITUTIONAL CHANGE.

PERSONAL AUTHOR: FREDRICK, KENNETH D.

DESCRIPTOR: *CASE STUDIES; NATURAL RESOURCES; *MANAGEMENT;
*PLANNING; WATER QUALITY; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 207P. PRICE: \$22.50

ABSTRACT: THIS BOOK DETAILS FIVE COMPREHENSIVE CASE STUDIES
BY WATER RESOURCE EXPERTS TO EXAMINE THE NATURE AND CAUSES
OF LONG-TERM WATER SUPPLY PROBLEMS AND SUGGESTS CONCRETE
SOLUTIONS. CONTENTS INCLUDE: COMPETITION BETWEEN IRRIGATION
AND HYDROPOWER IN THE PACIFIC NORTHWEST; WATER SCARCITY AND
GAINS FROM TRADE IN KERN COUNTY, CA.; COST OF WATER
MANAGEMENT INSTITUTIONS; AND INNOVATIONS IN WATER
MANAGEMENT.

AVAILABILITY: ISLAND PRESS, BOX 7, CORELO, CA 95428

ON NUMBER: EW#14469

*AUDIOVISUAL AIDS; *EROSION; *EROSION CONTROL; *CONTAMINATION; *SOILS; *URBAN DEVELOPMENT; *SURFACE WATER QUALITY

NOTE: 16MM COLOR FILM-23 MIN., PRICE: \$225.00

THIS FILM PRESENTS INFORMATION ON THE FOLLOWING: (1) EROSION AND HOW IT CAN BE PREVENTED; (2) HOW AND HOW IT CAN BE PREVENTED OR, IF NECESSARY, RESTORED; (3) URBAN DEVELOPMENT AND HOW THE SMART BUILDER AND DEVELOPER CAN TAKE ADVANTAGE OF TECHNOLOGY; AND (4) STORM DRAINAGE AND HOW TO AVOID DESTRUCTIVE EFFECT IN URBAN AREAS.

STUART FINLEY, INC., 3428 MANSFIELD ROAD, VIRGINIA 22841

ON NUMBER: EW#14470

TWO, THREE...CLEAN.

*AUDIOVISUAL AIDS; *ADVANCED WASTEWATER FACILITIES; *FILMS; *MARYLAND; *OPERATIONS *TECHNOLOGY; *WASTEWATER TREATMENT

NOTE: FILM-12 1/2 MIN., PRICE: \$200.00

THIS FILM DESCRIBES THE PISCATAWAY TERTIARY PLANT THAT SERVES PRINCE GEORGE'S COUNTY,

STUART FINLEY, INCORPORATED, 3428 MANSFIELD ROAD, VIRGINIA 22841

ON NUMBER: EW#14471

WATER POLLUTION.

*AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; *MATERIALS; *MANAGEMENT; *WATER TREATMENT; *WATER RESOURCES; *WATER QUALITY;

NOTE: FILM-26 MIN. PRICE: \$300.00

THIS FILM PROVIDES A FIRST-HAND LOOK AT WATER POLLUTION PROBLEMS AND WHAT CAN BE DONE ABOUT THEM. THE FILM SHOWS WHAT IS BEING DONE AT VARIOUS SITES IN THE UNITED STATES TO THE FUTURE REGARDING WHAT CAN BE DONE.

STUART FINLEY, INC., 3428 MANSFIELD ROAD, VIRGINIA 22841

IRIS ACCESSION NUMBER: EW#14472
TITLE: INTRODUCTION TO WATER DISTRIBUTION. VOLUME 3.

DESCRIPTOR: *CONSTRUCTION; *EQUIPMENT; *FACILITIES; *MAINTENANCE; *MANAGEMENT; *OPERATIONS (WATER); *WATER DISTRIBUTION; *PLANNING; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: \$27.50

ABSTRACT: PLANNING, CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE MAJOR COMPONENTS OF THE DISTRIBUTION SYSTEM ARE EXPLAINED IN THIS COMPREHENSIVE NEW VOLUME. DESCRIPTIONS AND MAINTENANCE PROCEDURES ARE DETAILED FOR: PIPES, VALVES, SERVICE LINES AND METERS, INSTRUMENTATION AND CONTROL EQUIPMENT, FIRE HYDRANTS, PUMPS AND PRIME MOVERS, STORAGE FACILITIES, TAPPING PROCEDURES, AND CROSS-CONNECTION CONTROL.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES, 6666 W. QUINCY AVE., DENVER, CO 80236

IRIS ACCESSION NUMBER: EW#14473

PUBLICATION DATE: MAR 86

TITLE: MANAGEMENT OF HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSAL FACILITIES.

PERSONAL AUTHOR: CASHMAN, JOHN R.

DESCRIPTOR: *EMERGENCY RESPONSE; *HAZARDOUS WASTES; *MANAGEMENT; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TREATMENT; *TECHNOLOGY; *TRAINING; *TRANSPORTATION

DESCRIPTIVE NOTE: 318P. PRICE: HARDCOVER \$55.00

ABSTRACT: THE BOOK PROVIDES PRACTICAL INFORMATION RECENTLY OBTAINED FROM FIRST HAND ON-SITE INVESTIGATIONS OF MORE THAN 20 MAJOR U.S. TSD FACILITIES. REALISTIC GUIDANCE ON HOW TO DEAL WITH HAZARDOUS WASTES WITH TESTED TECHNOLOGY AND PROCEDURES ARE CONSIDERED. CHAPTERS COVER EVERY MAJOR METHOD OF HAZARDOUS WASTE TSD--LANDFILL, RECOVERY/REUSE, THERMAL DESTRUCTION, DEEP WELL INJECTION AND OTHERS. THERE IS ALSO A SPECIAL CHAPTER ON SOURCES OF FURTHER INFORMATION AND TRAINING.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3525, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW#14474

PUBLICATION DATE: 86

TITLE: ANALYTICAL CHEMISTRY OF PCBs.

PERSONAL AUTHOR: ERICKSON, MITCHELL D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *ANALYTICAL CHEMISTRY; *LABORATORY PROCEDURES; *REFERENCE MATERIALS;

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NOTE: 527P. PRICE: \$39.95

THIS BOOK PROVIDES A THOROUGH REVIEW OF VARIOUS PCB DETERMINATION IN MANY SUBSTRATES. THE FIRST PRESENTS A GENERAL INTRODUCTION TO PROPERTIES, COMPOSITION, IMPURITIES, TOXICOLOGY, METABOLISM, AND FATE. SUBSEQUENT CHAPTERS PROVIDE A SERIES OF DETAILED METHODS AND GENERAL ANALYTICAL METHODS SPONSORED BY SPECIFIC AGENCIES OR ORGANIZATIONS ARE REFERENCED. ADVICE AND TECHNIQUES FOR COLLECTION AND STORAGE ARE PRESENTED. EXTRACTION, DETERMINATION TECHNIQUES AS WELL AS DATA ANALYSIS ARE TREATED IN DEPTH IN INDIVIDUAL CHAPTERS. THE BOOK, ON COLLABORATIVE STUDIES, PROVIDES A GOOD OVERVIEW ON HOW WELL VARIOUS METHODS HAVE PERFORMED AND LABORATORY VARIATIONS CAN BE EXPECTED. THE BOOK CONTAINS 120 PAGES OF CITATIONS.

BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., WESTPORT, MASS 02128

IRIS ACCESSION NUMBER: EW014476

FOR AIR QUALITY ENVIRONMENTAL INFORMATION

*AIR QUALITY; *HOMES; *INDOR AIR QUALITY; *CONTROL; *PUBLIC HEALTH; *REFERENCE MATERIALS;

NOTE: PRICE: \$22.95, PLUS \$3.00 SHIPPING AND HANDLING

THIS PUBLICATION PROVIDES A COMPREHENSIVE REVIEW OF THE GUIDE ON THE SOURCES OF RADON AND ITS MECHANISMS, REPORTED INDOOR CONCENTRATIONS, METEOROLOGICAL EFFECTS, MODELS FOR PREDICTING CONCENTRATIONS, HEALTH EFFECTS AND STANDARDS, AND TECHNOLOGIES. A SEPARATE SECTION IS ENTITLED RADON AS A PRIMER FOR HOMEOWNERS.

NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORTLAND AVE., SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW014478

DATE: 85

COMPREHENSIVE EMERGENCY MANAGEMENT; EVACUATING POPULATIONS. CONTEMPORARY STUDIES IN APPLIED SCIENCE, VOL. 3

AUTHOR: PERRY, RONALD W.

DISASTERS; *EMERGENCY MANAGEMENT; *MANAGEMENT; *EMERGENCIES

NOTE: 219P. PRICE: \$47.50

ABSTRACT: THE BOOK'S EIGHT CHAPTERS COVER: AN INTRODUCTION TO COMPREHENSIVE EMERGENCY MANAGEMENT, THE GENERIC FUNCTIONS IN DISASTERS, EVACUATION BEHAVIOR EXHIBITED IN NATURAL AND MAN-MADE DISASTERS, THE STRUCTURE OF CITIZEN EMERGENCY DECISION-MAKING, SOCIAL PSYCHOLOGY IN EMERGENCY MANAGEMENT, THE CONTEXT AND PRACTICE OF EVACUATION PLANNING, ENHANCING CITIZEN COMPLIANCE WITH DISASTER WARNINGS, AND THE PROSPECTS FOR EVALUATION AND COMPREHENSIVE EMERGENCY MANAGEMENT.

AVAILABILITY: JAI PRESS INC., GREENWICH, CONN

IRIS ACCESSION NUMBER: EW014479

TITLE: THE HEALTH DETECTIVE'S HANDBOOK: A GUIDE TO THE INVESTIGATION OF ENVIRONMENTAL HEALTH HAZARDOUS BY NONPROFESSIONALS.

DESCRIPTOR: *ACCIDENT PREVENTION; *HAZARDOUS WASTES; HEALTH SURVEYS; *HEALTH HAZARDS; *PUBLIC HEALTH; *MANUALS; *PUBLIC PARTICIPATION; *SURVEYS; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: \$27.50 HARDCOVER, \$12.95 PAPER BACK.

ABSTRACT: THIS IS A GUIDE FOR CITIZEN GROUPS TO DESIGN THEIR OWN SCIENTIFICALLY VALID HEALTH SURVEY. WRITTEN FOR PEOPLE WITH NO SCIENTIFIC TRAINING, THE GUIDE SHOWS READERS HOW TO DETERMINE WHETHER A HEALTH PROBLEM EXISTS, ORGANIZE OTHERS, DESIGN A SCIENTIFICALLY VALID STUDY, DRAW CONCLUSIONS, AND OBTAIN FURTHER HELP FROM STATE AND FEDERAL AGENCIES.

AVAILABILITY: JOHNS HOPKINS UNIVERSITY PRESS, 701 W 40TH ST., STE 275, BALTIMORE, MD 21211

IRIS ACCESSION NUMBER: EW014480

PUBLICATION DATE: 86

TITLE: ENFORCING POLLUTION CONTROL LAWS.

PERSONAL AUTHOR: RUSSELL, CLIFFORD S.; AND OTHERS

DESCRIPTOR: *COMPLIANCE; COSTS; *ENFORCEMENT; *MONITORING; LAWS; POLLUTION; *POLLUTION CONTROL; *POLICIES; FEDERAL ROLE; STATE ROLE

DESCRIPTIVE NOTE: 244P. PRICE: CLOTH \$26.00

ABSTRACT: A MULTITUDE OF LAWS DESIGNED TO CLEAN UP THE ENVIRONMENT WERE PASSED IN THE 1970'S. BUT BEYOND THE MERE PASSING OF LAWS LAY THE DIFFICULT TASKS OF IMPLEMENTING, MONITORING, AND ENFORCING THEM. ECONOMIC MODELS ARE USED TO SHOW THE EXTENT OF THE DIFFICULTIES INVOLVED IN MONITORING AND ENFORCING POLLUTION CONTROL LAWS ON A CONTINUOUS BASIS. THE AUTHORS CONTEND THAT IT IS TIME FOR A NEW APPROACH AND MAKE SEVERAL RECOMMENDATIONS FOR POLICY CHANGE. BECAUSE CURRENT MONITORING TECHNIQUES ARE COSTLY AND CUMBERSOME, RESEARCH ON MONITORING TECHNOLOGY SHOULD BE REDIRECTED TOWARD DEVELOPING EASY AND LESS EXPENSIVE METHODS OF

POLLUTION DISCHARGES. MONITORING SHOULD BE MADE MORE EFFECTIVE BY AMENDING THE LAW TO ALLOW FOR VISITS TO POTENTIAL POLLUTERS AND FOR THE USE OF MONITORING EQUIPMENT. MONITORING SHOULD BE MORE EASY TO ENFORCEMENT BY TYING THE LIKELIHOOD OF A VISIT TO THE SOURCE'S PAST RECORD OF VIOLATIONS.

RESOURCES FOR THE FUTURE, BOOK MARKETING, WASHINGTON, D.C. 20036

IRIS ACCESSION NUMBER: EW014481

PUBLICATION DATE: 86

TITLE: DEGRADATION OF PESTICIDES IN GROUND WATER.

PERSONAL AUTHOR: GARNER, WILLA Y.; AND OTHERS

DESCRIPTOR: *DEGRADATION; *GROUNDWATER; *SOILS; *PUBLIC HEALTH; *TOXIC SUBSTANCES; *WATER POLLUTION; *RISK ASSESSMENT; *WATER POLLUTION; *WATER CONTROL

DESCRIPTIVE NOTE: 568P. PRICE: US & CANADA \$94.95, EXPORT

ABSTRACT: THIS BOOK EXPLORES VARIABLES THAT IMPINGE ON GROUND WATER CONTAMINATION FROM AGRICULTURALLY APPLIED PESTICIDES. CONSIDERED ARE DEGRADATION PARAMETERS, SOIL PROPERTIES AFFECTING PESTICIDE MOVEMENT INTO GROUND WATER, PRODUCTIVE AND DEVELOPMENTAL TOXICITY RISK ASSESSMENT AND SAFETY EVALUATION OF PESTICIDES IN GROUND WATER.

AMERICAN CHEMICAL SOCIETY DISTRIBUTION OFFICE, 16TH ST., N.W., WASHINGTON, D.C. 20036

IRIS ACCESSION NUMBER: EW014482

PUBLICATION DATE: 82

TITLE: WASTE DISPOSAL DILEMMA.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *HAZARDOUS WASTES; *VIDEOS; *PUBLIC HEALTH; *VIDEOCASSETTES; *WASTE POLLUTION CONTROL

DESCRIPTIVE NOTE: FILM OR VIDEOCASSETTE-20 MIN., AVAILABLE IN 16MM FILM 3/4 IN., OR 1/2 IN.

ABSTRACT: THIS FILM PROVIDES A GENERAL DESCRIPTION OF THE WASTE DISPOSAL PROBLEM, AND INCLUDES A CANDID DISCUSSION OF THE PROBLEM BY AN EPA OFFICIAL, INDUSTRY REPRESENTATIVES, AND ENVIRONMENTALISTS. THEIR DIALOG SHEDS SOME LIGHT ON THE ORIGINS OF HAZARDOUS WASTES, PUBLIC ATTITUDES TOWARD THIS CONTROVERSIAL TOPIC, AND POSSIBLE SOLUTIONS.

GEORGIA DEPT. OF NATURAL RESOURCES, 270 S.W., ATLANTA, GA 30334

IRIS ACCESSION NUMBER: EW014484

TITLE: HAZARDOUS CHEMICALS FILMSTRIP SET.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICALS; *FILMSTRIPS; *HAZARDOUS MATERIALS; *INSTRUCTIONAL MATERIALS; *ENVIRONMENTAL PROBLEMS; *MANAGEMENT; *PUBLIC HEALTH; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 6 FILMSTRIPS & CASSETTES, PRICE: \$199.00

ABSTRACT: THIS IS A SET OF SIX FILMSTRIPS AND CASSETTES WHICH EMPHASIZES THIS MAJOR ENVIRONMENTAL PROBLEM FACING THE 80'S AND 90'S. DISCUSSED ARE KEPONES, PCB'S, LOVE CANAL, AND OTHER TOPICS.

AVAILABILITY: YAKER ENVIRONMENTAL SYSTEMS, INC., P.O. BOX 18, STANTON, NJ 08885

IRIS ACCESSION NUMBER: EW014486

TITLE: MEASURING ENGINEERING PROPERTIES OF SOIL.

PERSONAL AUTHOR: WRAY, WARREN K.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *POSTSECONDARY EDUCATION; *SOILS; *SOIL PROPERTIES

DESCRIPTIVE NOTE: 276P. PRICE: \$26.95

ABSTRACT: DESIGNED AS A STUDENT LABORATORY TEXT, THIS BOOK IS USEFUL AS A REFERENCE GUIDE FOR FIELD ENGINEERS. EACH OF THE LABORATORY PROCEDURES IS PRECEDED BY A SHORT INTRODUCTION AND A DISCUSSION OF THE BACKGROUND AND USE OF THE METHOD. THE PROCEDURE DESCRIBES THE REQUIRED APPARATUS, REQUIRED MEASUREMENTS, CALCULATIONS, PRESENTATION OF RESULTS, A NUMERICAL EXAMPLE, REFERENCES, APPLICABLE TABLES, CHARTS, GRAPHS, PHOTOGRAPHS, AND SAMPLES OF THE DATA RECORD FORM.

AVAILABILITY: PRENTICE-HALL, INC., ENGLEWOOD CLIFFS, NEW JERSEY 07632

IRIS ACCESSION NUMBER: EW014489

PUBLICATION DATE: 87

TITLE: 1986-1987 DIRECTORY OF THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES INC. (ACIL).

DESCRIPTOR: *AMERICAN COUNCIL OF INDEPENDENT LABORATORIES; *DIRECTORIES; *LABORATORIES; *TESTING LABORATORIES

DESCRIPTIVE NOTE: 324P. PRICE: \$5.00

ABSTRACT: SERVICES PROVIDED BY THE NATION'S LEADING INDEPENDENT COMMERCIAL TESTING LABORATORIES ARE DESCRIBED IN THIS DOCUMENT. EACH LABORATORY HAS A PAGE LISTING ITS PERSONNEL AND EQUIPMENT. LABORATORY SERVICES ARE CROSS-

IN THE TWO-PART INDEX OF SERVICES; THE DISCIPLINE
LINE MAJOR TECHNICAL DISCIPLINES AND HUNDREDS OF
ES; THE PRODUCT/SERVICES DISCIPLINES INDEX BY
AND SERVICE CATEGORIES AND MORE THAN 200
E. OTHER AIDS ARE ALPHABETICAL AND GEOGRAPHICAL
LABORATORIES, THEIR BRANCHES AND DIVISIONS.
ABOUT THE ACIL AND ITS CODE OF ETHICS IS ALSO
THE DIRECTORY.

ACIL, 1725 K. ST., N.W., SUITE 301,
D.C. 20006

IRIS NUMBER: EW014491

S.

CHEMICALS; *CHEMICAL SPILLS; *COMPUTER
COMPUTER APPLICATIONS; *GASEOUS EMISSIONS;
MICROCOMPUTERS; *SIMULATIONS; *SPILLS; PUBLIC
EMERGENCY PLANNING

NOTE: PRICE: \$1990.00, \$50.00 DEMO VERSION.

MODELS THE DISPERSION OF VAPORS FROM A
AND GASEOUS EMISSIONS. SPILLS COVERS THE
SITUATIONS: (1) CONTINUOUS SPILLS SUCH AS LEAKS
FROM TANKS AND PIPELINES; (2) POOLS OF LIQUIDS,
GASES, FORMED INSTANTANEOUSLY, AND (3) STACK
EMISSIONS EITHER STEADY OR VARYING EMISSION RATES. PC
MODELS WITH THE FOLLOWING IMPROVEMENTS: (1) FULL-
SCALE ENTRY; (2) ANY CHEMICAL CAN BE MODELED; (3)
WIND SPEEDS; AND (4) MAXIMUM CONCENTRATIONS CAN BE

TRINITY CONSULTANTS, INC., 100 NORTH CENTRAL
AVENUE 600, RICHARDSON, TX 75080

IRIS NUMBER: EW014493

DATE: 85

DESIGN.

CLARIFIERS; *DESIGN; *EQUIPMENT; *FACILITIES;
(WASTEWATER); *WASTEWATER TREATMENT

DATE: 103P. PRICE: \$14.00 MEMBERS, \$19.00

BOOK DETAILS THE BASIC DESIGN CONCEPTS AND
ENGINEERS AND CONSULTANTS NEED IN ANALYZING
DIFFERENT CLARIFIER DESIGNS. THE CHARTS AND
THE DIFFERENT ASPECTS OF CLARIFIER DESIGN
A LIST OF REFERENCE MATERIALS IS INCLUDED.

WPCF, 601 WYTHE ST., ALEXANDRIA, VA 22314-

IRIS ACCESSION NUMBER: EW014494

TITLE: THE SKILLS TO MANAGE FOR THE WATER AND WASTEWATER
PROFESSIONAL. (TAPE)

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MANAGEMENT;
*PLANNING; *STAFF DEVELOPMENT; *WASTEWATER TREATMENT; *WATER
TREATMENT

DESCRIPTIVE NOTE: TAPE, PRICE: \$89.00

ABSTRACT: THIS IS A WORKSHOP ON TAPE DESIGNED TO ADDRESS
THE PROBLEMS OF WATER AND WASTEWATER MANAGEMENT PERSONNEL. A
VARIETY OF MANAGEMENT TECHNIQUES AND IDEAS ARE PRESENTED.

AVAILABILITY: PUBLIC ADMINISTRATION WORKSHOPS, P.O. BOX
003, KINGSBURG, CA 93631

IRIS ACCESSION NUMBER: EW014495

PUBLICATION DATE: 84

TITLE: THE SECOND INTERNATIONAL CONFERENCE ON GROUND WATER
QUALITY RESEARCH PROCEEDINGS.

PERSONAL AUTHOR: DURHAM, NORMAN H.; REDELF, ANN E.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *GROUNDWATER;
*RESEARCH REPORTS; *WATER QUALITY; *WATER RESOURCES; *WATER
SUPPLY

DESCRIPTIVE NOTE: 222P. PRICE: \$40.00

ABSTRACT: THIS PUBLICATION CONTAINS 62 PAPERS, WHICH ARE
DIVIDED INTO FIVE TOPICAL AREAS. THESE INCLUDE BIOLOGICAL
TRANSFORMATION PROCESSES, SORPTION PROCESSES, NON-BIOLOGICAL
TRANSFORMATION PROCESSES, TRANSPORT PROCESSES AND
INVESTIGATIVE METHODOLOGY FOR PROCESS RESEARCH.

AVAILABILITY: UNIVERSITY CENTER FOR WATER RESEARCH,
OKLAHOMA STATE UNIVERSITY, 003 LIFE SCIENCES EAST,
STILLWATER, OK 74078

IRIS ACCESSION NUMBER: EW014496

TITLE: SOIL IMPROVEMENT BY PRELOADING.

PERSONAL AUTHOR: STAMATOPOULOS, ARIS C.; KOTZIAS,
PANAGHIOTIS C.

DESCRIPTOR: *CASE STUDIES; *CONSTRUCTION; *PRELOADING;
*SOILS

DESCRIPTIVE NOTE: 261P. PRICE: \$47.95

ABSTRACT: "LOADING" COMPRESSIBLE SOILS IN ADVANCE OF
STRUCTURAL CONSTRUCTION IS EXAMINED FROM THE INITIAL SITE
INVESTIGATION TO CASE STUDIES OF ACTUAL PROJECTS. IN BETWEEN
THE AUTHORS EXAMINE THE TESTS AND PROCEDURES NECESSARY TO
DECIDE IF PRELOADING IS FEASIBLE, STABILITY, SETTLEMENTS.

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AINS, AND CHANGES IN SOIL PROPERTIES CAUSED BY
THERE ARE SEVERAL APPENDIXES AND AN EXTENSIVE
REFERENCES TO COMPLEMENT THE TEXT AS WELL AS MANY
PHOTOGRAPHS, DESIGN CHARTS, TABLES, AND OTHER

JOHN WILEY & SONS, INC., ONE WILEY DRIVE,
#8873

NUMBER: EW#14497

DATE: 86

FUNDAMENTALS OF ECOLOGICAL MODELLING.

AUTHOR: JORGENSEN, S. E.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *MODELS; *PLANNING;

NOTE: 300P. PRICE: \$57.50

THIS BOOK PROVIDES AN OVERVIEW OF ECOLOGICAL
MODELLING. IT ALSO ALLOWS THE READER TO DEVELOP HIS OR HER
OWN MODELS. IT DISCUSSES THE MODELLING PROCEDURE IN DETAIL
IN A STEP-BY-STEP PRESENTATION OF MODEL DEVELOPMENT.
IT IS ASSUMED TO HAVE A BASIC UNDERSTANDING OF
MATHEMATICS AND MATRIX CALCULATIONS.

ELSEVIER SCIENCE PUBLISHERS, BOX 211, 1000
AMSTERDAM, THE NETHERLANDS

NUMBER: EW#14498

DATE: 86

MEMBRANE PROCESSES.

AUTHOR: WHITE, RALPH E.; PINTAURO, PETER N.

CONFERENCE PROCEEDINGS; *INDUSTRIAL WASTES;
*MEMBRANE TECHNOLOGY; *WASTE TREATMENT;
*ROLE

NOTE: 140P. PRICE: \$15.00 MEMBERS, \$30.00

THIS SYMPOSIUM SERIES VOLUME EXAMINES EMERGING
TECHNOLOGIES AND MODULAR UNIT DESIGN AS WELL AS
FUTURE USES FOR THIS TECHNOLOGY. IT IS A
COLLECTION OF 16 TECHNICAL PAPERS ORIGINALLY PRESENTED AT A
SYMPOSIUM IN HOUSTON. TOPICS COVERED INCLUDE USE
OF MEMBRANE SYSTEMS TO REMOVE TRACE POLLUTANTS FROM
WATER SYSTEMS.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345
MANHATTAN AVENUE, NEW YORK, N.Y. 10017

IRIS ACCESSION NUMBER: EW#14499

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT ENGINEERING.

PERSONAL AUTHOR: MARTIN, EDWARD J.; JOHNSON, JAMES H., JR.

DESCRIPTOR: *ENVIRONMENT; *HAZARDOUS MATERIALS; *HAZARDOUS
WASTES; *LEGISLATION; *MANAGEMENT; *TECHNOLOGY; *WASTE
DISPOSAL; *WASTE REDUCTION; *WASTE TREATMENT

DESCRIPTIVE NOTE: 666P. PRICE: \$87.95

ABSTRACT: THE FUNDAMENTALS AND APPLICATIONS OF HAZARDOUS
WASTE TECHNOLOGIES INCLUDING THOSE THAT ACHIEVE WASTE
DESTRUCTION, TOXICITY REDUCTION, AND ELIMINATION ARE
DISCUSSED IN THIS WORK. AMONG THE TOPICS COVERED ARE
ENVIRONMENTAL LEGISLATION; RISK ANALYSIS, ASSESSMENT, AND
MANAGEMENT; INCINERATION TECHNIQUES AND FUNDAMENTALS; AND
LEACHATE TREATMENT AND DISPOSAL.

AVAILABILITY: VAN NOSTRAND REINHOLD, 115 FIFTH AVENUE, NEW
YORK, NY 10003

IRIS ACCESSION NUMBER: EW#14500

PUBLICATION DATE: 86

TITLE: TRANSPORTATION OF HAZARDOUS MATERIALS.

DESCRIPTOR: *HAZARDOUS MATERIALS; *MANAGEMENT; PUBLIC
HEALTH; FEDERAL ROLE; STATE ROLE; *RISK ASSESSMENT;
*TRANSPORTATION; LOCAL ROLE; *TECHNOLOGY

DESCRIPTIVE NOTE: 276P. PRICE: \$13.00

ABSTRACT: THIS REPORT DISCUSSES TRANSPORTATION OF ALL
HAZARDOUS MATERIALS THAT TRAVEL BY RAIL, TRUCK, WATER, OR
AIR.

AVAILABILITY: OFFICE OF TECHNOLOGY ASSESSMENT, U.S.
GOVERNMENT PRINTING OFFICE, DEPT. SSMC, WASHINGTON, DC
20402

IRIS ACCESSION NUMBER: EW#14511

PUBLICATION DATE: MAR 87

TITLE: REFORM IN COSTING AND PRICING WATER.

PERSONAL AUTHOR: MANN, PATRICK C.

DESCRIPTOR: *COSTS; *DRINKING WATER; *POLICIES; *WATER
RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: 43-45P.

ABSTRACT: ADVOCATED IS FURTHER REFORM IN COSTING PRACTICES
TO ARRIVE AT EQUITABLE WATER RATES.

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AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW014512

PUBLICATION DATE: MAR 87

TITLE: PUBLIC ATTITUDES TOWARD WATER CONSERVATION.

PERSONAL AUTHOR: FLACK, J. ERNEST; GREENBERG, JOANNE

DESCRIPTOR: *ATTITUDES; *COLORADO; *CONSERVATION; *PUBLIC RESEARCH REPORTS; *SURVEYS; *WATER CONSERVATION; *WATER SUPPLY

DESCRIPTIVE NOTE: 46-51P.

ABSTRACT: DESCRIBED ARE PUBLIC ATTITUDES TOWARD WATER CONSUMERS IN NORTHERN COLORADO INDICATE THEY ADOPT MOST WATER CONSERVATION PRACTICES.

AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW014513

PUBLICATION DATE: MAR 87

TITLE: EFFECTIVENESS OF RESIDENTIAL WATER CONSERVATION

PERSONAL AUTHOR: MADDAUS, WILLIAM O.

DESCRIPTOR: *CONSERVATION; *DEMONSTRATION PROJECTS; *EVALUATION; *RESEARCH REPORTS; *SURVEYS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 52-58P.

ABSTRACT: DEMONSTRATION PROJECTS SPONSORED BY THE U.S. ENVIRONMENTAL AGENCY AND URBAN DEVELOPMENT HELP QUANTIFY WATER CONSERVATION THAT CAN BE ACHIEVED IN HOMES.

AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW014514

PUBLICATION DATE: MAR 87

TITLE: ECONOMIC FACTORS AFFECTING WATER CONSERVATION PRACTICES.

PERSONAL AUTHOR: OLSEN, DARRYLL; HIGHSTREET, ALLAN L.

DESCRIPTOR: *ATTITUDES; *CONSERVATION; *POLICIES; *RESEARCH REPORTS; *SURVEYS; *WATER CONSERVATION; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 59-68P.

ABSTRACT: REPORTED ARE THE RESULTS OF A PUBLIC SURVEY THAT EVALUATED WATER CONSUMERS' WILLINGNESS TO IMPLEMENT WATER CONSERVATION PRACTICES IN THE SAN ANTONIO REGION.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW014515

PUBLICATION DATE: MAR 87

TITLE: THE IMPORTANCE OF WHITING AS A COMPONENT OF RAW WATER TURBIDITY.

PERSONAL AUTHOR: EFFLER, STEVEN W.

DESCRIPTOR: *CHEMISTRY; *CARBONATES; *TURBIDITY; *WATER TREATMENT; *WATER SUPPLY; *WATER QUALITY; *WHITING

DESCRIPTIVE NOTE: 80-82P.

ABSTRACT: DESCRIBED IS A VERIFIED AND SIMPLE TECHNIQUE THAT CAN BE USED FOR DETERMINING TURBIDITY CAUSED BY CARBONATE PRECIPITATES.

AVAILABILITY: AWWA JOURNAL; V79 N3

IRIS ACCESSION NUMBER: EW014516

PUBLICATION DATE: MAR 87

TITLE: NEWARK'S HAZARDOUS MATERIALS MANAGEMENT AND PREPAREDNESS PROGRAMS.

PERSONAL AUTHOR: SUDOL, FRANK J.; STAEHLE, WILLIAM J.

DESCRIPTOR: *EQUIPMENT; *HAZARDOUS MATERIALS; *MANAGEMENT; *NEW JERSEY; *REGULATIONS; *TRAINING; *RISK ASSESSMENT

DESCRIPTIVE NOTE: 63-64, 94-96P.

ABSTRACT: DESCRIBED ARE THE NEWARK (NEW JERSEY) HAZARDOUS MATERIALS MANAGEMENT AND PREPAREDNESS PROGRAMS.

AVAILABILITY: PUBLIC WORKS; VI18 N3

IRIS ACCESSION NUMBER: EW014517

PUBLICATION DATE: MAR 87

TITLE: OMAHA RECYCLES SLUDGE IN AGRICULTURAL PROGRAM.

PERSONAL AUTHOR: SLATTERY, DAN

DESCRIPTOR: *AGRICULTURE; *COSTS; *FERTILIZER; *OPERATIONS (WASTEWATER); *RECYCLING; *SLUDGE; *RESOURCE RECOVERY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 74-76P.

49

DESCRIBED IS A PROGRAM IN OMAHA, NEBRASKA FOR
TEWATER SLUDGE THROUGH AN AGRICULTURAL PROGRAM.
PUBLIC WORKS; V118 N3

IRIS NUMBER: EW#14510
DATE: MAR 87
CHANGES AHEAD FOR DRINKING WATER INDUSTRY.
AUTHOR: CULP, GORDON L.

*COMPLIANCE; DRINKING WATER; LEGISLATION;
AMENDMENTS; POLICY; *OPERATIONS (WATER); *SAFE
R ACT; *WATER TREATMENT
NOTE: 24-26P.

DESCRIBED ARE SOME OF THE CHANGES IN THE SAFE
ER ACT DUE TO RECENT AMENDMENTS, SOME OF THE
THIS LEGISLATION ON WATER UTILITIES ARE
WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS NUMBER: EW#14519
DATE: MAR 87
DUTY CRUSADE TAKES ON THE DRINKING WATER
AUTHOR: KARAGANIS, JOSEPH V.

*COMPLIANCE; *LIABILITY; *DRINKING WATER;
*OPERATIONS (WATER); *REGULATIONS; *STANDARDS;
; *WATER TREATMENT
NOTE: 27-29, 46P.

DESCRIBED ARE SOME OF THE REGULATIONS AFFECTING
ER QUALITY AND TREATMENT INCLUDING 1986
AND SOME POSSIBLE IMPLICATIONS OF THE
WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS NUMBER: EW#14520
DATE: MAR 87
R EFFECT TIED TO FLOW RATE.
AUTHOR: YOST, ROD

DOPPLER EFFECT; *FLOW METERS; *EQUIPMENT;
ES; *WASTEWATER UTILITIES

DESCRIPTIVE NOTE: 30-31P.
ABSTRACT: DESCRIBED IS THE DOPPLER FLOWMETER FOR USE IN
WATER AND WASTEWATER APPLICATIONS.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14521
PUBLICATION DATE: MAR 87
TITLE: CHEMICALS IN THE WATER TREATMENT PROCESS.
PERSONAL AUTHOR: HARMS, LELAND L.

DESCRIPTOR: *COAGULATION; *CHEMICAL TREATMENT;
*DISINFECTION; *FLUORIDATION; *ODOR; *OPERATIONS (WATER);
*TASTES; *WATER TREATMENT; *SOFTENING; *STABILIZATION
DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DESCRIBED ARE USES OF CHEMICALS IN THE WATER
TREATMENT PROCESS. A CHART OF CHEMICALS USED IS INCLUDED.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N3

IRIS ACCESSION NUMBER: EW#14522
PUBLICATION DATE: 85
TITLE: PROCEEDING; SECOND INTERNATIONAL CONFERENCE ON
FIXED-FILM BIOLOGICAL PROCESSES. VOLUME I.
PERSONAL AUTHOR: BANDY, JOHN T.; AND OTHERS

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CONFERENCE PROCEEDINGS;
*FIXED-FILM BIOLOGICAL PROCESSES; *OPERATIONS (WASTEWATER);
*PERFORMANCE EVALUATION; *WASTEWATER TREATMENT; *RESEARCH
REPORTS
DESCRIPTIVE NOTE: 1042P. PRICE: \$63.52

ABSTRACT: THE SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM
BIOLOGICAL PROCESSES WAS HELD AT THE HYATT REGENCY HOTEL,
CRYSTAL CITY, ARLINGTON, VIRGINIA, ON JULY 10-12, 1984. IT
WAS THE SECOND IN A SERIES OF CONFERENCES WHICH SERVE AS
OPPORTUNITIES TO ASSESS THE APPLICABILITY OF THESE ADVANCED
TECHNOLOGIES FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL
WASTEWATERS. THE PROCEEDINGS ARE ESSENTIALLY THE PAPERS AND
DISCUSSION GIVEN BY AUTHORS AND PARTICIPANTS. THE PAPERS ARE
DIVIDED INTO 17 MAJOR TOPIC AREAS IN TWO VOLUMES. THE FIRST
VOLUME CONTAINS THE FIRST NINE TOPIC AREAS. THESE ARE: (1)
MICROBIOLOGY OF BIOFILM; (2) BIOFILM GROWTH CHARACTERISTICS;
(3) SELECTION AND ARRANGEMENT OF FIXED-FILM MEDIA FOR
ANAEROBIC TREATMENT SYSTEMS; (4) SPECIAL INVESTIGATION ON
FIXED-FILM BIOLOGICAL SYSTEMS; (5) EFFECT OF PACKED-BED
MEDIA CONFIGURATION ON TRICKLING FILTER APPLICATIONS; (6)
REACTION KINETICS AND PROCESS MODELINGS; (7) NUTRIENT
REMOVAL USING FIXED-FILM SYSTEMS; (8) REPORT FROM EPA ON
COLUMBUS RBC RESEARCH PROJECT; AND (9) AERATED FIXED-FILM



MENT SYSTEMS.
ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

ON NUMBER: EW014523

DATE: 85

CEEDINGS: SECOND INTERNATIONAL CONFERENCE ON
OLOGICAL PROCESSES. VOLUME II.

R: BANDY, JOHN T.; AND OTHERS

*BIOLOGICAL PROCESSES; *CONFERENCE PROCEEDINGS;
BIOLOGICAL PROCESSES; *OPERATIONS (WASTEWATER);
EVALUATION; *WASTEWATER TREATMENT; *DESIGN;
*EQUIPMENT; *RESEARCH

OTE: 1068P. PRICE: \$65.00

E SECOND INTERNATIONAL CONFERENCE ON FIXED-FILM
ROCESSES WAS HELD AT THE HYATT REGENCY HOTEL,
ARLINGTON, VIRGINIA, ON JULY 10-12, 1984. IT
ND IN A SERIES OF CONFERENCES WHICH SERVE AS
TO ASSESS THE APPLICABILITY OF THESE ADVANCED
FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL
THE PROCEEDINGS ARE ESSENTIALLY THE PAPERS AND
VEN BY AUTHORS AND PARTICIPANTS. THE PAPERS ARE
7 MAJOR TOPIC AREAS IN TWO VOLUMES. THE SECOND
NS TOPICS 10 THROUGH 17. THESE ARE: (10)
PLICATIONS OF FIXED-FILM BIOREACTORS; (11)
DS WORKSHOP; (12) INDUSTRIAL WASTEWATER
NG FIXED-FILM REACTORS--I; (13) NITRIFICATION
TED TREATMENT SYSTEMS; (15) INDUSTRIAL
EATMENT USING FIXED-FILM REACTORS--II; (16)
ION, AND MAINTENANCE; AND (17) POSTER SESSION.

ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

NUMBER: EW014524

TE: MAR 87

UDIES IN CO-COMPOSTING.

R: EPSTEIN, ELIOT

ASE STUDIES; COMPOSTING; *CO-COMPOSTING;
RIPTIONS; *MASSACHUSETTS; *NORTH CAROLINA;
*WASTE DISPOSAL; *RECYCLING

E: 24-26P.

ECTS FOR CO-COMPOSTING ON NANTUCKET ISLAND
INA ARE DESCRIBED.

BIOCYCLE; V28 N3

85

IRIS ACCESSION NUMBER: EW014526
PUBLICATION DATE: MAR 87

TITLE: ANALYSIS OF EPA GUIDANCE ON COMPOSTING SLUDGE. PART
III - OXYGEN, MOISTURE, ODOR, PATHOGENS.

PERSONAL AUTHOR: FINSTEIN, M. S.; AND OTHERS

DESCRIPTOR: *COMPOSTING; *MOISTURE; *OXYGEN; *ODOR;
*PATHOGENS; *PERFORMANCE EVALUATION; *SEWAGE SLUDGE;
*SLUDGE; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 30-44P.

ABSTRACT: THIS PAPER IS PART III OF A FOUR PART SERIES.
PROBLEMS IN COMPOSTING SLUDGE CAN BE ALLEVIATED BY
MAINTAINING TEMPERATURES BELOW 60 DEGREES CELSIUS THROUGH
FORCED PRESSURE VENTILATION WITH TEMPERATURE FEEDBACK
CONTROL.

AVAILABILITY: BIOCYCLE; V28 N3

IRIS ACCESSION NUMBER: EW014526

PUBLICATION DATE: MAR 87

TITLE: SEWER SYSTEM SOFTWARE.

DESCRIPTOR: *BIBLIOGRAPHIES; *COMPUTER APPLICATIONS;
*COMPUTER SOFTWARE; *MAINTENANCE; *LABORATORY PROCEDURES;
*OPERATIONS (WASTEWATER); *MANAGEMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 8-11P.

ABSTRACT: DESCRIBED ARE COMPUTER SOFTWARE PROGRAMS
SPECIFICALLY AIMED AT THE WASTEWATER FIELD, INCLUDING
OPERATIONS AND MAINTENANCE, COLLECTION SYSTEMS, LABORATORY
PROCESSES, AND OTHER APPLICATIONS.

AVAILABILITY: OPERATIONS FORUM; V4 N3

IRIS ACCESSION NUMBER: EW014527

PUBLICATION DATE: MAR 87

TITLE: CONVENIENT VENTILATION.

PERSONAL AUTHOR: WEITKEMPER, BILL

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *MANHOLES;
*OPERATIONS (WASTEWATER); *SAFETY; *VENTILATION; *SEWERS

DESCRIPTIVE NOTE: 12-15P.

ABSTRACT: DESCRIBED ARE PROCEDURES AND EQUIPMENT TO
VENTILATE MANHOLES AND OTHER CONFINED SPACES.

AVAILABILITY: OPERATIONS FORUM; V14 N3

86

51

ON NUMBER: EW014528
DATE: MAR 87

-EFFECTIVE O&M: SIX CITIES SAVE OVER \$1

*COSTS; *COST REDUCTIONS; *MAINTENANCE;
*PERFORMANCE EVALUATION; *OPERATIONS
*WASTEWATER TREATMENT; *TRAINING

NOTE: 16-22P.

SUMMARIZED ARE DATA FROM SIX CITIES SELECTED FOR
VE OPERATIONS AND MAINTENANCE. THE ARTICLE
YS TO SUCCESS, TECHNIQUES USED, AND EXAMPLES OF
TS USED THE TECHNIQUES.

OPERATIONS FORUM; V14 N3

ON NUMBER: EW014529

DATE: MAR 87

QUALITY APPROACH. FUNDAMENTALS PROCESS

DR: HOBSON, TIM

*MANAGEMENT; *OPERATIONS (WASTEWATER); *SLUDGE;
*QUALITY APPROACH; *RETURN SLUDGE FLOW CONTROL;
*TREATMENT

NOTE: 24-29P.

S IS THE 10TH ARTICLE IN A SERIES ON PROCESS
FUNDAMENTALS. THIS ARTICLE CONSIDERS RETURN SLUDGE
BY USING THE SLUDGE QUALITY APPROACH FOR
THE CORRECT RATE.

OPERATIONS FORUM; V14 N3

ON NUMBER: EW014530

DATE: MAR 87

OS HAZARD MANAGEMENT.

DR: OUELLETTE, ROBERT; CHEREMISINOFF, PAUL N.

*ASBESTOS; *HAZARDOUS MATERIALS; *MANAGEMENT;
*CONTROL; *PUBLIC HEALTH

NOTE: 36-43P.

DESCRIBED ARE CONCERNS AND PROCEDURES FOR
HAZARD MANAGEMENT.

POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW014531
PUBLICATION DATE: MAR 87

TITLE: PACKAGED SYSTEM TREATS LANDFILL LEACHATE.

PERSONAL AUTHOR: BALDWIN, WILLIAM C.; ELLIS, ROBERT H.

DESCRIPTOR: *FACILITIES; *LEACHATE; *LANDFILLS; *PACKAGE
PLANTS; *WASTE TREATMENT; *WASTEWATER TREATMENT; *POLLUTION
CONTROL

DESCRIPTIVE NOTE: 44-46P.

ABSTRACT: DESCRIBED IS A PACKAGE SYSTEM FOR TREATING
LANDFILL LEACHATE. THE FACILITY IS LOCATED IN PENNSYLVANIA.

AVAILABILITY: POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW014532

PUBLICATION DATE: MAY 86

TITLE: HEALTH ASPECTS OF THE DISPOSAL OF WASTE CHEMICALS.

PERSONAL AUTHOR: GRISHAM, JOE W.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *HAZARDOUS
MATERIALS; *PUBLIC HEALTH; *POLLUTION; *WASTE DISPOSAL;
*POLLUTION CONTROL; *RISK ASSESSMENT; *SAFETY

DESCRIPTIVE NOTE: 463P. PRICE: \$85.00

ABSTRACT: INTENDED TO BE A SOURCE OF INFORMATION ON THE
NATURE AND SIGNIFICANCE OF HEALTH EFFECTS RELATED TO
CHEMICAL DISPOSAL. THIS DOCUMENT IS THE FINAL REPORT OF THE
EXECUTIVE SCIENTIFIC PANEL ON HEALTH ASPECTS OF THE DISPOSAL
OF WASTE CHEMICALS. THE PANEL, WHICH WAS ORGANIZED BY THE
UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN
PATHOLOGY (UAREP), REVIEWED SCIENTIFIC LITERATURE,
COMMISSIONED REPORTS FROM VARIOUS TASK FORCES ON WASTE
DISPOSAL, AND SOLICITED INPUT FROM SCIENTISTS AND INTERESTED
INDIVIDUALS AND ORGANIZATIONS. FINDINGS ARE REPORTED ON: (1)
WASTE CHEMICALS OF MAJOR CONCERN; (2) FACTORS INFLUENCING
HUMAN EXPOSURE; (3) THE ASSESSMENT OF HEALTH EFFECTS; (4)
EPIDEMIOLOGY IN EXPOSED POPULATIONS; (5) FACTORS INVOLVED IN
RISK ASSESSMENT; (6) CHEMICAL EXPOSURE HEALTH STUDIES; (7)
DISPOSAL SITE HEALTH STUDIES; AND (8) INTERNATIONAL ASPECTS
OF CHEMICAL WASTE DISPOSAL. THE REPORT IS SUMMARIZED, AND
CONCLUSIONS AND RECOMMENDATIONS ARE INCLUDED. THE APPENDICES
CONTAIN A SYNOPSIS OF INFORMATION ON VARIOUS CHEMICALS, A
LIST OF STUDY PARTICIPANTS, AND A LIST OF INDIVIDUALS AND
ORGANIZATIONS RESPONDING TO THE DRAFT REPORT.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK,
ELMSFORD, NY 10523

52

88

87

IRIS ACCESSION NUMBER: EW014533
PUBLICATION DATE: MAR 87

TITLE: USING UV/OZONE TO OXIDIZE TOXICS.

PERSONAL AUTHOR: MCSHEA, LAWRENCE J.; AND OTHERS

DESCRIPTOR: *COLORADO; *OPERATIONS (WASTEWATER); *ORGANIC
*OZONE; *TECHNOLOGY; *TOXIC SUBSTANCES;
*LIGHT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58-59P.

ABSTRACT: DESCRIBED IS ULTRAVIOLET LIGHT/OZONE TECHNOLOGY
FOR TREATING TOXIC MATERIALS (ORGANIC POLLUTANTS) IN
CONTAMINATED GROUNDWATER. THE TECHNOLOGY IS BEING USED FOR
WASTEWATER FROM A WOOD PRESERVING SITE IN DENVER.

AVAILABILITY: POLLUTION ENGINEERING; V19 N3

IRIS ACCESSION NUMBER: EW014534

PUBLICATION DATE: MAR 87

TITLE: TO ESTABLISH A MENTORING PROGRAM.

PERSONAL AUTHOR: LAWRIE, JOHN

DESCRIPTOR: *MENTORING; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 25-27P.

ABSTRACT: DESCRIBED IS A WAY OF USING A MENTORING PROGRAM
FOR PERSONNEL DEVELOPMENT.

AVAILABILITY: TRAINING & DEVELOPMENT JOURNAL; V41 N3

IRIS ACCESSION NUMBER: EW014535

PUBLICATION DATE: MAR 87

TITLE: FACTORS IN PERFORMANCE APPRAISAL.

PERSONAL AUTHOR: PHILLIPS, KENNETH R.

DESCRIPTOR: *MANAGEMENT; *PERFORMANCE APPRAISAL; *STAFF

DESCRIPTIVE NOTE: 80-82P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR DETERMINING IF A
PERFORMANCE APPRAISAL SYSTEM IS WORKING.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41-N3

IRIS ACCESSION NUMBER: EW014536
PUBLICATION DATE: MAR 87

TITLE: TITLE: FOCUSING PROBLEM MANAGEMENT.

PERSONAL AUTHOR: PHILLIPS, STEVEN R.; BERGGUIST, WILLIAM H.

DESCRIPTOR: *MANAGEMENT; *MODELS; *PROBLEM SOLVING

DESCRIPTIVE NOTE: 87-89P.

ABSTRACT: DESCRIBED IS A PROBLEM MANAGEMENT MODEL. THE
ARTICLE INCLUDES A DISCUSSION OF THE USE OF THE MODEL AND
BENEFITS OF THE USE OF THE MODEL.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N3

IRIS ACCESSION NUMBER: EW014537

PUBLICATION DATE: FEB 87

TITLE: TITLE: FOCUS ON HAZARDOUS MATERIALS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *HAZARDOUS
MATERIALS; *FIRE; *SAFETY; *SODIUM HYDROXIDE; *PUBLIC
HEALTH; *SPILLS; *STORAGE

DESCRIPTIVE NOTE: 17-18P.

ABSTRACT: THIS ARTICLE DESCRIBES SODIUM HYDROXIDE AND
CHARACTERISTICS RELATED TO PERSONNEL PROTECTION, SHIPPING,
STORAGE, FIRES, SPILLS, EXPOSURE, AND PROPERTIES.

AVAILABILITY: INDUSTRIAL FIRE WORLD; V2 N1

IRIS ACCESSION NUMBER: EW014543

PUBLICATION DATE: APR 87

TITLE: TITLE: FOUR BY FOUR. WHAT DO CONTRACT TRAINERS NEED TO
KNOW TO BE SUCCESSFUL?

PERSONAL AUTHOR: GALL, ADRIENNE L.

DESCRIPTOR: *CONTRACT TRAINING; *INSTRUCTIONAL IMPROVEMENT;
*RECOMMENDATIONS; *TRAINING

DESCRIPTIVE NOTE: 26-32P.

ABSTRACT: PROVIDED ARE SOME HELPFUL HINTS RELATED TO WHAT
MAKES A CONTRACT TRAINER GOOD.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

ON NUMBER: EW014544
DATE: APR 87
BLISHING A CREATIVE CLIMATE.
HOR: RAUDSEPP, EUGENE
*CREATIVITY; *ORGANIZATIONAL CLIMATE;
NOTE: 50-53P.
DESCRIBED ARE TWO DOZEN WAYS TO ACHIEVE
RESULTS IN AN ORGANIZATION.
TRAINING AND DEVELOPMENT JOURNAL; V41 N4

ON NUMBER: EW014545
DATE: APR 87
MANAGERS TO WRITE WINNING JOB DESCRIPTIONS.
OR: KENNEDY, WILLIAM R.
*JOB DESCRIPTIONS; *MANAGEMENT; *TRAINING;
NOTE: 62-64P.
PROCEDURES TO FOLLOW WHEN WRITING JOB
ARE PRESENTED.
TRAINING AND DEVELOPMENT JOURNAL; V41 N4

ON NUMBER: EW014546
DATE: APR 87
WRITING MADE EASIER.
OR: REDDOUT, DONNA J.
INSTRUCTIONAL MATERIALS; *TRAINING; *TRAINING
ING
NOTE: 66-68P.
PROVIDED ARE SUGGESTIONS FOR WRITING TECHNICAL
LS.
TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW014547
PUBLICATION DATE: APR 87
TITLE: COMPUTERS AND TRAINING: ALLIES OR ENEMIES?
PERSONAL AUTHOR: GALAGAN, PATRICIA
DESCRIPTOR: *COMPUTERS; *COMPUTER APPLICATIONS;
*INSTRUCTION; *LEARNING; *TRAINING
DESCRIPTIVE NOTE: 73-76P.
ABSTRACT: DESCRIBED IS THE USE OF COMPUTERS FOR TRAINING
AND WHAT SOME PEOPLE HAVE LEARNED THROUGH USE AND RESEARCH.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V41 N4

IRIS ACCESSION NUMBER: EW014549
PUBLICATION DATE: FEB 87
TITLE: COMPOSTING MUNICIPAL SLUDGE: A TECHNOLOGY
EVALUATION.
PERSONAL AUTHOR: BENEDICT, ARTHUR H.; AND OTHERS
DESCRIPTOR: *COMPOSTING; *COSTS; *RESEARCH REPORTS;
*OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION;
*TECHNOLOGY; *SEWAGE SLUDGE; *WASTEWATER TREATMENT; *SLUDGE;
*RECYCLING; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 191P. PRICE: \$12.46

ABSTRACT: INVESTIGATIONS AT FIVE FULL-SCALE MUNICIPAL
SLUDGE COMPOSTING FACILITIES ARE DESCRIBED IN THIS REPORT.
STUDY OBJECTIVES WERE TO ASSESS DESIGN, CONSTRUCTION,
OPERATION, AND COST FEATURES OF STATIC PILE AND WINDROW
TECHNOLOGIES USED AT EACH FACILITY AND TO COMPARE THESE
FEATURES FOR MUNICIPAL SLUDGE COMPOSTING APPLICATIONS. THREE
STATIC PILE FACILITIES, ONE CONVENTIONAL WINDROW FACILITY,
AND ONE AERATED WINDROW FACILITY WERE INVESTIGATED. ONE
STATIC PILE FACILITY COMPOSTS ANAEROBICALLY DIGESTED SLUDGE,
ONE COMPOSTS LIMED RAW SLUDGE, AND THE THIRD COMPOSTS
UNLIMED RAW SLUDGE. BOTH WINDROW FACILITIES COMPOST
ANAEROBICALLY DIGESTED SLUDGE. SLUDGE LOADINGS VARIED FROM
50 TO 500 WET TONS PER DAY. KEY FINDINGS OF THE STUDY ARE
INCLUDED IN THE REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES
CENTER, 1200 CHAMBERS ROAD, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014551
PUBLICATION DATE: 86
TITLE: APPROPRIATE WASTEWATER MANAGEMENT TECHNOLOGIES FOR
RURAL AREAS UNDER ADVERSE TECHNOLOGIES.
PERSONAL AUTHOR: WALLWE, D. H.; TOWNSHEND, A. R.

*APPROPRIATE TECHNOLOGY; *CONFERENCE
*INNOVATIVE TECHNOLOGY; *ON-SITE TREATMENT
RURAL AREAS; *TECHNOLOGY; *WASTEWATER COLLECTION;
TREATMENT

NOTE: 425P. PRICE: \$20.00

THIS BOOK CONTAINS THE PROCEEDINGS OF A WORKSHOP
OCTOBER, 1986. SPECIALISTS FROM ACROSS CANADA AND
S. CONTRIBUTED PAPERS AND DISCUSSIONS RELATED TO
AND APPROPRIATE TECHNOLOGIES FOR UTILITIES
COLLECTION SYSTEMS, SMALL COMMUNITY TREATMENT
-SITE TREATMENT AND DISPOSAL, AND WASTEWATER
DISTRICTS.

CRWS, P.O. BOX 1000, HALIFAX, N.S. CANADA.

ON NUMBER: EW014552

DATE: 86

WATER TREATMENT VIDEOTRAINING SERIES. 3001--
WORKBOOK AND NOTES.

*ACTIVATED SLUDGE PROCESS; *AUDIOVISUAL AIDS;
*INSTRUCTIONAL MATERIALS; *BIOLOGICAL
*OPERATIONS (WASTEWATER); *POSTSECONDARY
TRAINING; *VIDEOTAPES; *WASTEWATER TREATMENT

NOTE: 50P. CONTACT FOR PRICE

THIS IS THE SECOND IN A SERIES OF FOUR VIDEOTAPE
OUT THE ART AND SCIENCE OF WASTEWATER TREATMENT.
"SLUDGE AND CLARIFICATION PROCESSES" CONTAINS A
D A WORKBOOK. TOPICS PRESENTED INCLUDE THE
1) GENERAL BIOLOGICAL TREATMENT REQUIREMENTS;
2) ACTIVATED SLUDGE PROCESS; (3) CONTROL OF ACTIVATED
SLUDGES; AND (4) CLARIFICATION PROCESSES.

VCA TECHNICOLOR, 2440 S. WOLF RD., DES
PLAINES, IL 60018

ON NUMBER: EW014553

DATE: 86

WATER TREATMENT VIDEOTRAINING SERIES. 3002--
SLUDGE AND CLARIFICATION PROCESSES. WORKBOOK AND

*AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS;
*WASTEWATER); *POSTSECONDARY EDUCATION;
VIDEOTAPES; *WASTEWATER TREATMENT

NOTE: 44P. CONTACT FOR PRICE

THIS IS THE FIRST IN A SERIES OF FOUR VIDEOTAPE
OUT THE ART AND SCIENCE OF WASTEWATER TREATMENT.
"SLUDGE AND CLARIFICATION PROCESSES" CONTAINS A VIDEOTAPE

AND A WORKBOOK. TOPICS PRESENTED INCLUDE THE FOLLOWING: (1)
THE NEED FOR WASTEWATER TREATMENT AND QUANTITIES AND
CHARACTERISTICS OF WASTEWATER; (2) WASTEWATER COLLECTION
SYSTEMS; (3) INTRODUCTION TO WASTEWATER TREATMENT PROCESSES;
AND (4) SAMPLING OF WASTEWATER.

AVAILABILITY: VCA TECHNICOLOR, 2440 S. WOLF RD., DES
PLAINES, IL 60018

IRIS ACCESSION NUMBER: EW014554

PUBLICATION DATE: APRIL 87

TITLE: RADIONUCLIDES IN DRINKING WATER: AN OVERVIEW.

PERSONAL AUTHOR: AIETA, E. MARCO; AND OTHERS

DESCRIPTOR: *DRINKING WATER; *PUBLIC HEALTH;
*RADIONUCLIDES; *RADIUM; *RADON; *URANIUM; *WATER QUALITY;
*WATER TREATMENT

DESCRIPTIVE NOTE: 144-152P.

ABSTRACT: PROVIDED IS AN OVERVIEW OF RADIONUCLIDES IN
DRINKING WATER. RADIUM, URANIUM, AND RADON ARE THE
RADIONUCLIDES OF MOST CONCERN TO DRINKING WATER SUPPLIERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N4

IRIS ACCESSION NUMBER: EW014555

PUBLICATION DATE: APRIL 87

TITLE: ESTIMATING THE HEALTH RISKS OF RADON IN DRINKING
WATER.

PERSONAL AUTHOR: COTHERN, C. RICHARD

DESCRIPTOR: *DRINKING WATER; *PUBLIC HEALTH;
*RADIONUCLIDES; *RADON; *RISK ASSESSMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 153-150P.

ABSTRACT: DISCUSSED ARE THE HEALTH RISKS OF RADON IN
DRINKING WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N4

IRIS ACCESSION NUMBER: EW014556

PUBLICATION DATE: APRIL 87

TITLE: POINT-OF-ENTRY REMOVAL OF RADON FROM DRINKING WATER.

PERSONAL AUTHOR: LOWRY, JERRY D.; AND OTHERS

55

*DIFFUSED BUBBLE AERATION; *DRINKING WATER;
*ACTIVATED CARBON; *OPERATIONS (DRINKING WATER);
*DESIGN; *RADON; *PERFORMANCE EVALUATION; *WATER
*PUBLIC HEALTH

NOTE: 162-169P.

TWO PROCESSES WERE INVESTIGATED FOR POINT-OF-USE
RADON IN DRINKING WATER. GRANULAR ACTIVATED
CARBON AND DIFFUSED BUBBLE AERATION WERE TESTED.
RESULTS WERE REPORTED.

JOURNAL WATER POLLUTION CONTROL FEDERATION;
V79

IRIS ACCESSION NUMBER: EW#14557

PUBLICATION DATE: MARCH 87

TITLE: HOLD HAZARDOUS WASTE: THE UNRESOLVED WATER
PROBLEM

AUTHOR: BROWN, TIMOTHY S.

*HAZARDOUS WASTES; *HOUSEHOLD WASTES; *PUBLIC
*WASTE DISPOSAL; *WASTE COLLECTION PROGRAMS; *WATER
*TREATMENT

NOTE: 120-124P.

THIS ARTICLE CONSIDERS THE PROBLEM OF HOUSEHOLD
HAZARDOUS WASTES AND THE POTENTIAL IMPACT OF THESE WASTES ON
PUBLIC HEALTH.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

IRIS ACCESSION NUMBER: EW#14558

PUBLICATION DATE: MARCH 87

TITLE: SLUDGE'S EMERGING ROLE IN SLUDGE MANAGEMENT: A
PROSPECTIVE FEATURE.

AUTHOR: KUCHENRITHER, R.D.; AND OTHERS.

*CASE STUDIES; *COMPOSTING; *FACILITIES;
*OPERATIONS (WASTEWATER); *RECYCLING; *SEWAGE
*TREATMENT; *WASTE DISPOSAL; PENNSYLVANIA; COLORADO;

NOTE: 125-131P.

THIS PAPER DOCUMENTS ADVANCES IN SLUDGE
MANAGEMENT AND FEATURES CASE STUDIES OF THREE WASTEWATER
TREATMENT FACILITIES USING SLUDGE COMPOSTING.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

IRIS ACCESSION NUMBER: EW#14559

PUBLICATION DATE: MARCH 87

TITLE: STATISTICAL ANALYSIS OF INDUSTRIAL WASTEWATER
MONITORING DATA.

PERSONAL AUTHOR: LOFTIS, J.C.; AND OTHERS

*DESCRIPTOR: *DATA ANALYSIS; *DATA MANAGEMENT SYSTEMS;
*INDUSTRIAL WASTES; *MONITORING; *MONITORING PROGRAMS;
*STATISTICAL ANALYSIS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 145-151P.

ABSTRACT: A WHOLE SYSTEM APPROACH APPLIED TO HISTORICAL
MONITORING DATA ENABLED IBM TO DESIGN A STREAMLINED
MONITORING PROGRAM FROM ACTUAL SAMPLE COLLECTION THROUGH
STATISTICAL ANALYSIS OF INDUSTRIAL WASTEWATER DATA.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V59 N3

IRIS ACCESSION NUMBER: EW#14560

PUBLICATION DATE: MARCH 87

TITLE: EPA DESIGN INFORMATION REPORT: ANAEROBIC DIGESTER
MIXING SYSTEMS.

*DESCRIPTOR: *ANAEROBIC DIGESTERS; *DESIGN; *EQUIPMENT;
*MIXING SYSTEMS; *PERFORMANCE EVALUATION; *OPERATIONS
(WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 162-170P.

ABSTRACT: THIS REPORT DISCUSSES THE CURRENT PROBLEMS AND
POTENTIAL SOLUTIONS ASSOCIATED WITH THE SELECTION, DESIGN,
AND OPERATION OF ANAEROBIC DIGESTER MIXING SYSTEMS. THE
REPORT CONSIDERS THE FOUR MAJOR TYPES OF MIXING SYSTEMS AND
PRESENTS THEIR ADVANTAGES AND DISADVANTAGES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION;
V59 N3

IRIS ACCESSION NUMBER: EW#14567

PUBLICATION DATE: APRIL 87

TITLE: THE CONTROL OF BULKING SLUDGES: FROM THE EARLY
INNOVATORS TO CURRENT PRACTICE.

PERSONAL AUTHOR: ALBERTSON, ORRIS E.

*DESCRIPTOR: *ACTIVATED SLUDGE; *DESIGN; *OPERATIONS
(WASTEWATER); *SLUDGE; *SLUDGE BULKING; *TECHNOLOGY;
*PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 172-182P.

DESCRIBED IS THE CONTROL OF SLUDGE BULKING.
IS PRESENTED FROM EARLY DEVELOPMENTS TO CURRENT

JOURNAL WATER POLLUTION CONTROL FEDERATION;

ON NUMBER: EW014568

DATE: APRIL 87

UATION OF ACTIVATED BIOFILTRATION AND ACTIVATED
N/ACTIVATED SLUDGE TECHNOLOGIES.

OR: ARORA, MADAN L.; UMPHRES, MARGARET B.

*DESIGN; *COSTS; ACTIVATED BIOFILTER; ACTIVATED
IVATED SLUDGE; *BIOFILTRATION; *PERFORMANCE
*FACILITIES; *TECHNOLOGY; *OPERATIONS
*WASTEWATER TREATMENT

OTE: 183-198P.

IS PAPER PRESENTS THE RESULTS OF A REVIEW AND
OF THE ACTIVATED BIOFILTER (ABF) AND ACTIVATED
IVATED SLUDGE (ABF/AS) TECHNOLOGIES AND A
PERATING RECORDS OF SEVERAL MUNICIPAL PLANTS IN
G THESE TECHNOLOGIES.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW014569

N, OPERATIONAL, AND COST CONSIDERATIONS FOR
D SLUDGE DEWATERING BED SYSTEMS.

*COSTS; *DESIGN; *DEWATERING; *PERFORMANCE
*OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER
*VACUUM ASSISTED SLUDGE DEWATERING

OTE: 228-234P.

S ARTICLE SUMMARIZES FINDINGS OF POST-
EVALUATIONS OF 12 OPERATIONAL VACUUM ASSISTED
ERING BED SYSTEMS LOCATED AT MUNICIPAL
ATMENT FACILITIES THROUGHOUT THE U.S.

JOURNAL WATER POLLUTION CONTROL FEDERATION;

NUMBER: EW014570

TE: APRIL 87

ONICS EASES MANAGEMENT OF WASTEWATER
TEM.

PERSONAL AUTHOR: KONTOR, JOHN S.; SARVER, JAMES W.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTERIZED SYSTEMS;
*MANAGEMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER);
*VIRGINIA; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 24-26P.

ABSTRACT: DESCRIBED IS AN ELECTRONICS SYSTEM FOR A VIRGINIA
COMMUNITY THAT RELAYS DATA FROM WASTEWATER STATIONS TO CUT
COSTS AND IMPROVE PERFORMANCE.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW014571

PUBLICATION DATE: APRIL 87

TITLE: MOUNT HOLLY MAKES A BUSINESS OUT OF SLUDGE
PROCESSING.

PERSONAL AUTHOR: DUNN, WILLIAM G.; BARIL, DAVID E.

DESCRIPTOR: *ECONOMICS; *FEE SCHEDULES; *INCINERATION; *NEW
JERSEY; *OPERATING REVENUES; *SLUDGE PROCESSING; *THERMAL
CONDITIONING; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 30-32P.

ABSTRACT: A NEW JERSEY CITY HAS RETROFITTED A PLANT WITH A
NEW THERMAL SLUDGE CONDITIONING UNIT THAT IS USED FOR
PROCESSING WASTES FROM OTHER SITES. REVENUES FOR PROCESSING
AMOUNT TO OVER \$100,000 A MONTH.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW014572

PUBLICATION DATE: APRIL 87

TITLE: KEEPING WASTEWATER SUBMERSIBLES SAFE AND RELIABLE.

DESCRIPTOR: *EQUIPMENT; *INSPECTION; *MAINTENANCE;
*OPERATIONS (WASTEWATER); *PUMPS; *SAFETY; *SUBMERSIBLE
PUMPS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 32-34P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR KEEPING WASTEWATER
SUBMERSIBLE PUMPS SAFE AND RELIABLE.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V134 N4

IRIS ACCESSION NUMBER: EW014573

PUBLICATION DATE: APR 87

TITLE: HAZARDOUS WASTE TREATMENT TECHNOLOGY: THE CHOICE IS

57

98

OR: RICH, GERALD

*HAZARDOUS MATERIALS; *HAZARDOUS WASTES;
*WASTE TREATMENT; *WASTE DISPOSAL; *POLLUTION

NOTE: 69-78P.

DESCRIBED ARE COMMERCIALY AVAILABLE TREATMENT
FOR TREATING HAZARDOUS WASTES.

POLLUTION ENGINEERING; V19 N4

NUMBER: EW814574

DATE: APR 87

ENVIRONMENTAL AUDITING; A BASIC GUIDE.

OR: CHEREMISINOFF, PAUL N.; TEN EYCK, JANE

*AUDITS; *COMPLIANCE; *ENVIRONMENTAL AUDITS;
*MATERIALS; *HAZARDOUS WASTES; *MATERIALS
*MATERIAL STORAGE; *REGULATIONS; *WASTE STORAGE;
*LAW; *POLLUTION CONTROL

NOTE: 72-75P.

DESCRIBED ARE PROCEDURES FOR AN ENVIRONMENTAL
FACILITY HANDLING HAZARDOUS WASTES.

POLLUTION ENGINEERING; V19 N4

NUMBER: EW814575

DATE: APR 87

MAGNESIUM HYDROXIDE REDUCES SLUDGE/IMPROVES

OR: TERINGO, JOHN, III

*ACID WASTE STREAMS; *INDUSTRIAL WASTES;
*MAGNESIUM HYDROXIDE; *OPERATIONS (WASTEWATER);
*EVALUATION; *SLUDGE; *SLUDGE DEWATERING;
*TESTING; *WASTEWATER TREATMENT

NOTE: 78-83P.

DISCUSSED IS THE USE OF MAGNESIUM HYDROXIDE FOR
WASTE STREAMS CONTAINING METALS. IN MANY
CASES THE REDUCTION OF SLUDGE DISPOSAL COSTS CAN
OUTWEIGH THE HIGHER CHEMICAL COST.

POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW814576
PUBLICATION DATE: APR 87

TITLE: LIME TREATMENT OF LIQUID WASTE CONTAINING HEAVY
METALS.

PERSONAL AUTHOR: DU PONT, ANDRE

DESCRIPTOR: *ACID WASTE STREAMS; *INDUSTRIAL WASTES;
*COSTS; *LIME; *OPERATIONS (WASTEWATER); *PERFORMANCE
EVALUATION; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 84-88P.

ABSTRACT: DISCUSSED IS LIME TREATMENT OF LIQUID WASTES
CONTAINING HEAVY METALS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N4

IRIS ACCESSION NUMBER: EW814578

PUBLICATION DATE: 86

TITLE: TOXICITY TESTING USING MICROORGANISMS. VOLUME I.

PERSONAL AUTHOR: DUTKA, BERNARD J.; BITTON, GABRIEL (EDS.)

DESCRIPTOR: *CHEMICALS; *MICROORGANISMS; *TESTING; *TOXIC
SUBSTANCES

DESCRIPTIVE NOTE: 176P. \$78.00--U.S., \$81.00--OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME ONE IN A SERIES ON TOXICITY
TESTING USING MICROORGANISMS. TOPICS INCLUDED ARE: (1)
INTRODUCTION AND REVIEW OF MICROBIAL AND BIOCHEMICAL
TOXICITY SCREENING PROCEDURES; (2) BACTERIAL GROWTH AND
ACTIVITY AS INDICATORS OF TOXICITY; (3) BIOCHEMICAL TESTS
FOR TOXICITY SCREENING; (4) BIOLUMINESCENCE ASSAYS; (5)
RESPIROMETRIC TECHNIQUES; (6) MICROCALORIMETRIC STUDIES OF
MICROBIAL METABOLISM AND INHIBITION; AND (7) BASES FOR IN
VITRO TOXICITY EVALUATION.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W.,
BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW814579

PUBLICATION DATE: 86

TITLE: TOXICITY TESTING USING MICROORGANISMS. VOLUME II.

PERSONAL AUTHOR: DUTKA, BERNARD J.; BITTON, GABRIEL

DESCRIPTOR: *CHEMICALS; *MICROORGANISMS; *SOILS; *TESTING;
*TOXIC SUBSTANCES; WASTEWATER

DESCRIPTIVE NOTE: 200P. PRICE: \$81.00-U.S., \$93.00-
OUTSIDE U.S.

THIS IS VOLUME TWO IN A SERIES ON TOXICITY USING MICROORGANISMS. THIS VOLUME CONTAINS THE TOPICS: (1) INTRODUCTION AND REVIEW OF MICROBIAL TOXICITY SCREENING PROCEDURES; (2) FACTORS AFFECTING UTILITY OF MICROBIAL ASSAYS AND MUTAGENICITY OF CHEMICAL POLLUTANTS; (3) SCREENING USING FUNGI AND YEASTS; (4) TOXICITY USING PHYTOPLANKTON; (5) TOXICANT SCREENING IN SYSTEMS; (6) TOXICITY TESTING IN SOIL USING MS, BIODEGRADATION TESTS; AND (7) U.S. EPA ON ECOTOXICITY TESTING USING MICROORGANISMS.

CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW014580

PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL EPIDEMIOLOGY; EPIDEMIOLOGICAL OF COMMUNITY ENVIRONMENTAL HEALTH PROBLEMS.

PERSONAL AUTHOR: GOLDSMITH, JOHN R.

DESCRIPTOR: *AIR POLLUTION; *ENVIRONMENT; *ENVIRONMENTAL *DRINKING WATER; *HEALTH; *PUBLIC HEALTH; *MATERIALS; *POSTSECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER POLLUTION

DESCRIPTIVE NOTE: 280P. PRICE: \$96.00-U.S., \$110.00-OUTSIDE U.S.

ABSTRACT: THIS PUBLICATION PRESENTS INFORMATION ON EPIDEMIOLOGY AND THE INVESTIGATION OF ENVIRONMENTAL PROBLEMS. EXAMPLES FROM A VARIETY OF AREAS ARE INCLUDED ON A RANGE OF TOPICS.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW014581

PUBLICATION DATE: 85

TITLE: CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT. VOLUME ONE: WORKPLACE MONITORING AND PREVENTION OF OCCUPATIONAL HAZARDS.

PERSONAL AUTHOR: STICH, HANS F.

DESCRIPTOR: *ASBESTOS; *CHEMICALS; *BENZENE; *CHLOROFORM; *CARCINOGENS; *MUTAGENS; *RADIATION; *HEALTH; *VINYL CHLORIDE; *RISK ASSESSMENT; *CANCER PREVENTION; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 216P. PRICE: \$85.00-U.S., \$98.00-OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME IV IN A SERIES ON CARCINOGENS AND MUTAGENS IN THE ENVIRONMENT. THIS VOLUME FOCUSES ON

MONITORING AND PREVENTING OCCUPATIONAL HAZARDS.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW014582

PUBLICATION DATE: 86

TITLE: WATERBORNE DISEASES IN THE UNITED STATES.

PERSONAL AUTHOR: CRAUN, GUNTHER F.

DESCRIPTOR: *DISEASE PREVENTION; *DISEASES; *DRINKING WATER; *REGULATIONS; *PUBLIC HEALTH; *WATERBORNE DISEASES; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 384P. PRICE: \$117.00-U.S., \$135.00-OUTSIDE U.S.

ABSTRACT: WATER-RELATED ILLNESS IS EXAMINED WITH EMPHASIS ON TRANSMISSION OF INFECTIOUS DISEASES THROUGH CONTAMINATED DRINKING WATER SUPPLIES, AND DEFICIENCIES IN WATER SUPPLY SYSTEMS WHICH ALLOW WATER-BORNE OUTBREAKS. IMPORTANT ETIOLOGIC AGENTS, SURVEILLANCE ACTIVITIES, REGULATIONS, PREVENTATIVE MEASURES, PROCEDURES FOR INVESTIGATING DISEASE OUTBREAKS, AND LABORATORY METHODS FOR IDENTIFYING PATHOGENS ARE DISCUSSED. DISEASES WHICH OCCUR BY INGESTION, BATHING OR WADING, AND INHALATION ARE ALL CONSIDERED.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FL 33431

IRIS ACCESSION NUMBER: EW014583

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT. VOL. I.: LAW OF TOXICS AND TOXIC SUBSTANCES.

PERSONAL AUTHOR: DOMINGUEZ, GEORGE S.; BARTLETT, KENNETH G.

DESCRIPTOR: *COMPLIANCE; *HAZARDOUS WASTES; *LAWS; *LEGISLATION; *MANAGEMENT; *LIABILITIES; *TOXIC SUBSTANCES; *ENFORCEMENT

DESCRIPTIVE NOTE: 272P. PRICE: \$88.00-U.S., \$101.00-OUTSIDE U.S.

ABSTRACT: THIS IS VOLUME ONE IN A SERIES ON HAZARDOUS WASTE MANAGEMENT. VOLUME ONE CONSIDERS LAW OF TOXICS AND TOXIC SUBSTANCES. INFORMATION IS INCLUDED ON SPECIFIC REQUIREMENTS OF VARIOUS LAWS, WHO IS RESPONSIBLE FOR COVERING COSTS, THE RIGHTS OF CORPORATIONS IN DEALING WITH ENFORCEMENT AGENCIES, AND LIABILITIES AND PENALTIES.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

ION NUMBER: EW#14584

TRICKLE IRRIGATION FOR CROP PRODUCTION.

*AGRICULTURE; *DESIGN; *IRRIGATION;
*MAINTENANCE; *MANAGEMENT; *PERFORMANCE
*TRICKLE IRRIGATION; *WATER CONSERVATION; *WATER

NOTE: 366P. MEMBER--\$48.50, LIST--\$58.00

THIS MULTI-PURPOSE TEXTBOOK/HANDBOOK FEATURES INFORMATION ON THE DESIGN, OPERATION, MAINTENANCE AND MANAGEMENT OF TRICKLE SYSTEMS. TOPICS INCLUDE: (1) ADVANTAGES AND DISADVANTAGES OF TRICKLE IRRIGATION; (2) EFFECTS FROM VARIABLES IN SYSTEMS PRODUCTION; (3) NUTRIENT AND HYDRAULIC CONDUCTIVITY INTERACTIONS WITH WATER AND SOIL TYPES; (4) OPTIMAL CONDITIONS FOR CROP GROWTH; (5) WATER REQUIREMENTS OF SPECIFIC CROPS AT DIFFERENT STAGES OF GROWTH; AND (6) METHODS OF EFFECTIVE MAINTENANCE OF A TRICKLE IRRIGATION FIELD SYSTEM AND PREVENTIVE MAINTENANCE.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS,
150 NILES RD., ST. JOSEPH, MI 49885-9659

ION NUMBER: EW#14585

LEGISLATIVE SOURCEBOOK ON TOXICS.

*ENVIRONMENTAL IMPACT; *GROUNDWATER; *HEALTH;
*TOXIC SUBSTANCES; *TRANSPORTATION; *STORAGE

NOTE: 250P. \$14.95

TWO PUBLICATIONS RECENTLY RELEASED BY THE AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS PROVIDE A COMPREHENSIVE SUMMARY OF THE ENVIRONMENTAL ASPECTS OF BILLS AND LAWS ENACTED IN THE STATE OF MICHIGAN IN THE ENVIRONMENTAL AREA. INFORMATION ON BILL NUMBERS AND CONTACTS ARE ALSO PROVIDED FOR EASY FOLLOWUP. ISSUES ADDRESSED IN THIS BOOK INCLUDE POLLUTION AND FACILITIES, CONSUMER PROTECTION, GROUNDWATER POLLUTION, OPERATIONAL HEALTH AND COMPENSATION, SOURCE CONTROL, AND RECYCLING, AND TRANSPORTATION.

CONFERENCE, 2800 FLORIDA AVE., N.W., ROOM 404
WASHINGTON, D.C. 20009

ION NUMBER: EW#14586

LEGISLATIVE SOURCEBOOK ON THE ENVIRONMENT.

*ENVIRONMENT; *ENVIRONMENTAL IMPACT;
*PLANNING; *RECYCLING; *TOXIC SUBSTANCES; *PUBLIC
*POLLUTION CONTROL

NOTE: 300P. \$14.95

TWO PUBLICATIONS RECENTLY RELEASED BY THE AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS PROVIDE A COMPREHENSIVE SUMMARY OF THE ENVIRONMENTAL ASPECTS OF BILLS AND LAWS ENACTED IN THE STATE

LEGISLATURES IN THE ENVIRONMENTAL AREA. INFORMATION ON BILL NUMBERS AND CONTACTS ARE ALSO PROVIDED FOR EASY FOLLOWUP. THE "LEGISLATIVE SOURCEBOOK ON THE ENVIRONMENT" COVERS SUCH TOPICS AS AIR, RIVERS AND STREAMS, GROUND WATER, WETLANDS, OCEANS AND COASTS, PRIVATE FORESTRY, FARMLAND AND OPEN SPACE, NON-GAME WILDLIFE AND ENDANGERED SPECIES, RECYCLING, TOXICS, THE WORKPLACE, NUCLEAR ENERGY AND RADIOACTIVE WASTE AND PLANNING.

AVAILABILITY: CONFERENCE, 2800 FLORIDA AVE., N.W., ROOM 404
PC 3, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW#14587

PUBLICATION DATE: 86

TITLE: TOXICITY OF PESTICIDES TO FISH. VOLUME I.

PERSONAL AUTHOR: MURTY, A.S.

DESCRIPTOR: *ENVIRONMENT; *FISH; *ENVIRONMENTAL IMPACT;
*PESTICIDES; *TOXICITY; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 192P. \$96.00, \$110.00

ABSTRACT: THIS IS THE FIRST MAJOR ATTEMPT TO REVIEW COMPREHENSIVELY ALL AVAILABLE INFORMATION ON THE ENVIRONMENTAL FATE OF PESTICIDES AND THEIR ACUTE AND CHRONIC EFFECTS TO FISH. THE VOLUMES INCORPORATE OVER 1700 REFERENCES PUBLISHED FROM 1944 TO PRESENT. TOPICS INCLUDED IN VOLUME ONE ARE: (1) PESTICIDES IN THE ENVIRONMENT; (2) PESTICIDE RESIDUES IN FISH; (3) UPTAKE AND DEPURATION OF PESTICIDE RESIDUES BY FISH; AND (4) TOXICITY TEST AND TEST METHODOLOGY.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W.,
BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14588

PUBLICATION DATE: 86

TITLE: TOXICITY OF PESTICIDES TO FISH. VOL. II.

PERSONAL AUTHOR: MURTY, A.S.

DESCRIPTOR: *FISH; *ENVIRONMENT; *ENVIRONMENTAL IMPACT;
*PESTICIDES; *TOXIC SUBSTANCES; *TOXICITY

DESCRIPTIVE NOTE: 160P. \$72.00--U.S., \$83.00--OUTSIDE U.S.

ABSTRACT: THIS IS THE FIRST MAJOR ATTEMPT TO REVIEW COMPREHENSIVELY ALL AVAILABLE INFORMATION ON THE ENVIRONMENTAL FATE OF PESTICIDES AND THEIR ACUTE AND CHRONIC EFFECTS TO FISH. THE VOLUMES INCORPORATE OVER 1700 REFERENCES PUBLISHED FROM 1944 TO PRESENT. TOPICS INCLUDED IN VOLUME TWO ARE: (1) TOXICITY OF INDIVIDUAL COMPOUNDS; (2) SAFE CONCENTRATIONS, AND TOXICITY TO DIFFERENT AGE GROUPS; (3) INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE TOXICITY OF PESTICIDES TO FISH; (4) TOXICITY OF FORMULATIONS, ISOMERS,

ATION PRODUCTS; (5) JOINT ACTION OF PESTICIDE
6) INSECTICIDE RESISTANCE IN FISH; (7) POLY-
BIPHENYLS AND RELATED COMPOUNDS; AND (8)
AL HAZARD EVALUATION AND PREDICTION.

Y: CRC PRESS, INC., 2888 CORPORATE BLVD., N.W.,
FLORIDA 33431

ION NUMBER: EW#14589

DATE: JULY 86

SOURCES AND WASTES.

*ECONOMICS; *CONSERVATION EDUCATION;
*INSTRUCTIONAL MATERIALS; *LEGISLATION;
RECOVERY; *MANAGEMENT; *SECONDARY SCHOOL
WASTES; *WASTE REDUCTION; *CANADA

NOTE: 68P. \$18.00

HIS PACKAGE IS DESIGNED FOR USE IN SCHOOLS AT
THE PACKAGE CONTAINS EIGHT MODULES. EACH MODULE
A TEACHER'S PAGE AS WELL AS INFORMATION,
AND A NUMBER OF SUGGESTED QUESTIONS, PROJECTS,
IES. MODULE TITLES INCLUDE THE FOLLOWING: (1)
AND WASTES; (2) WASTE STREAMS; (3) WASTE
(4) WASTES COSTS; (5) RESOURCE RECOVERY; (6)
ONSIBILITIES, AND LEGISLATION; (7) CONSUMER
(8) GETTING INVOLVED.

MINISTRY OF ENVIRONMENT & PARKS, INFORMATION
CH, 818 BLANSHARD ST., VICTORIA, B.C. V8W3E1

ION NUMBER: EW#14590

DATE: 86

ING TOXIC WASTES IN NEW JERSEY. A GUIDE TO
STATE INFORMATION SOURCES ON CHEMICAL WASTES
AL PLANTS.

OR: MILLER, CATHERINE G.; NAVIASKY, LAURENCE

*CHEMICALS; *GUIDES; *HAZARDOUS WASTES;
WASTES; *INFORMATION SOURCES; *NEW JERSEY;
ICES; *TOXIC WASTES; *POLLUTION CONTROL

NOTE: 88P. \$15.00

S GUIDE IS DESIGNED TO HELP THOSE CONCERNED
S CHARGES OF HAZARDOUS WASTES BY INDUSTRIAL
W JERSEY WHICH ARE RESPONSIBLE FOR GENERATING
ON TONS A YEAR OF SUCH WASTES. THE GUIDE LISTS
MORE THAN TWO DOZEN FEDERAL AND STATE
FICES, AND INCLUDES EXAMPLES OF FORMS TO BE
DIRECTIONS FOR SECURING ACCESS TO INFORMATION

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY
10157-0323

IRIS ACCESSION NUMBER: EW#14591

PUBLICATION DATE: 86

TITLE: VADOSE ZONE MODELING OF ORGANIC POLLUTANTS.

PERSONAL AUTHOR: HERN, STEPHEN C.; MELANCON, SUSAN M.

DESCRIPTOR: *CHEMICALS; *GROUNDWATER; *MODELING; *ORGANIC
POLLUTANTS; *VADOSE ZONE

DESCRIPTIVE NOTE: 388P. \$49.95

ABSTRACT: THIS BOOK COVERS THE USES AND LIMITATIONS OF
VADOSE ZONE MODELS AND INCLUDES GUIDELINES FOR FIELD
COLLECTION AND DATA REQUIRED FOR CALIBRATION AND EVALUATION.
THIS BOOK IS ORGANIZED INTO TWO MAJOR SECTIONS: OVERVIEW OF
CHEMICAL FATE AND TRANSPORT PROCESSES IN THE VADOSE ZONE,
AND CHEMICAL PROCESSES, PARAMETER ESTIMATION, AND
VARIABILITY IN THE VADOSE ZONE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14592

TITLE: GROUND WATER QUALITY PROTECTION.

PERSONAL AUTHOR: CANTER, L.W.

DESCRIPTOR: *GROUNDWATER; *MONITORING; *WATER TREATMENT;
*WATER POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 458P. \$49.95

ABSTRACT: CONSIDERED BY THE EPA TO BE ONE OF THE MAJOR
ENVIRONMENTAL ISSUES OF THE 1980'S GROUNDWATER SUPPLIES A
LARGE AMOUNT OF THE WATER WE USE. CONTENTS OF THIS BOOK
INCLUDE: (1) GROUNDWATER: AN IMPORTANT RESOURCE; (2)
GROUNDWATER HYDROLOGY; (3) GROUNDWATER INFORMATION SOURCES;
(4) GROUNDWATER POLLUTION SOURCES; (5) POLLUTANT TRANSPORT
AND FATE IN THE SUBSURFACE ENVIRONMENT; ABIOTIC AND BIOTIC
PROCESSES; (6) POLLUTANT TRANSPORT AND FATE IN THE
SUBSURFACE ENVIRONMENT; HYDRODYNAMIC PROCESSES AND FLOW AND
SOLUTE MODELING; (7) POLLUTION SOURCE EVALUATION; (8)
EMPIRICAL ASSESSMENT METHODS; (9) GROUNDWATER MONITORING
PLANNING; (10) GROUNDWATER SAMPLING AND ANALYSIS; (11)
GROUNDWATER QUALITY MANAGEMENT; AND (12) GROUNDWATER
CLEANUP.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

NUMBER: EW#14593
DATE: 85

GROUND WATER POLLUTION CONTROL.

AUTHOR: CANTER, LARRY V.; KNOX, ROBERT C.

*AQUIFER RESTORATION; *PUBLIC PARTICIPATION;
*TECHNOLOGY; *RISK ASSESSMENT; *WATER
CONTROL; *WATER TREATMENT

NOTE: 529P. \$49.95

THIS BOOK COVERS TECHNOLOGIES FOR GROUND WATER
PART ONE AND DEALS IN DEPTH WITH AQUIFER
DECISION-MAKING IN PART TWO, WHILE PART THREE
LEADS ABSTRACTS OF 225 CAREFULLY SELECTED
AND AN EXTENSIVE RANGE OF CASE STUDIES. CONTENTS
GROUND WATER TREATMENT, METHODOLOGIES; (2) IN-
TECHNIQUES; (3) AQUIFER RESTORATION; (4) PHYSICAL
TECHNIQUES; (5) APPLICATIONS AND CASE STUDIES; (6)
RESTORATION DECISION-MAKING; AND (8) RISK

LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
DRAWER 519, CHELSEA, MICHIGAN 48118

NUMBER: EW#14594

CULTURAL WASTE UTILIZATION AND MANAGEMENT.

*AGRICULTURE; *CONFERENCE PROCEEDINGS;
*WASTES; *ENERGY RECOVERY; *RECYCLING; *WASTES;
*WASTE STORAGE; *WASTE TRANSPORTATION;
CONTROL

NOTE: 775P. MEMBER--\$23.60, LIST--\$29.50

PROCEEDINGS FROM THE DECEMBER 1985 FIFTH
SYMPOSIUM ON AGRICULTURAL WASTES COVERS A
OF TOPICS INCLUDING LIQUID MANURE STORAGE AND
ENERGY RECOVERY FROM WASTES, DIGESTER TYPES
RECYCLING FOR FEED, FUEL AND FERTILIZER, LAND
AND ODOR CONTROL.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS,
NILES RD., ST. JOSEPH, MI 49885-9659

NUMBER: EW#14595

DATE: 86

POLLUTION CONTROL FOR THE PETROCHEMICALS INDUSTRY.

AUTHOR: BORUP, BRETT; MIDDLEBROOKS, E. JOE

*CHEMICALS; *HAZARDOUS WASTES; *INDUSTRIAL
PETROCHEMICALS; *POLLUTION CONTROL; *WASTE

DISPOSAL; *WASTE TREATMENT; *WATER POLLUTION CONTROL
DESCRIPTIVE NOTE: 200 EST.P. \$34.95

ABSTRACT: THIS BOOK IS A CONCISE PRESENTATION OF ALL
ASPECTS OF POLLUTION CONTROL IN THE PETROCHEMICALS INDUSTRY.
SOLUTIONS TO WATER, AIR, SOLID AND HAZARDOUS WASTES PROBLEMS
ARE SUMMARIZED IN THIS VALUABLE WORK. ENERGY USE AND
CONSERVATION ARE ALSO DISCUSSED. CONCERNS AND PRECAUTIONS
NECESSARY FOR DEVELOPMENT OF PETROCHEMICALS PLANTS IN
DEVELOPING COUNTRIES ARE AN ADDED FEATURE.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14596

PUBLICATION DATE: JULY 86

TITLE: CHLORINATED DIOXINS AND DIBENZOFURANS IN
PERSPECTIVE.

PERSONAL AUTHOR: RAPPE, CHRISTOFFER

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS;
*CHLORINATED DIOXINS; *DIBENZOFURANS; *CONTAMINATION;
*POLLUTION CONTROL

DESCRIPTIVE NOTE: 550P. \$59.95

ABSTRACT: THIS BOOK PROVIDES HUMAN EXPOSURE DATA AND THE
ANALYTICAL TECHNIQUES DEVELOPED IN THE CONTINUING EFFORT
AGAINST CONTAMINATION BY CHLORINATED DIOXINS AND
DIBENZOFURANS. INFORMATION INCLUDES THE FOLLOWING TOPICS:
(1) HUMAN EXPOSURE; DISTRIBUTION AND ANALYSIS; (2)
INCINERATION EMISSIONS (AND PCB'S); (3) SOIL CONTAMINATION
(FATE--DESTRUCTION--SAMPLING--ANALYSIS); (4) BIOASSAYS; (5)
ANALYTICAL TECHNIQUES; AND (6) DESTRUCTION (REMOVAL--
RECLAMATION--DISPOSAL--SYNTHESIS--STANDARDS--PREPARATION).

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
STREET, P.O. DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14597

PUBLICATION DATE: OCT. 86

TITLE: ANALYTICAL ASPECTS OF OZONE TREATMENT FOR WATER AND
WASTEWATER.

PERSONAL AUTHOR: RICE, R.G.; AND OTHERS

DESCRIPTOR: OPERATIONS (WASTEWATER); *OPERATIONS (WATER);
*OZONE; *MONITORING; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 380P. \$49.95

ABSTRACT: BECAUSE OZONE IS A GAS AT NORMAL TEMPERATURES AND
PRESSURES, AND BECAUSE OF ITS BRIEF HALFLIFE, ANALYSES FOR
OZONE AND CONTROL OF OZONE GENERATION AND REACTIONS ARE



S PARTICULAR ADVANCING TECHNOLOGY. THIS BOOK IS
TO FIVE SECTIONS: (1) FUNDAMENTAL PARAMETERS;
OF OZONE IN AQUEOUS SOLUTION; (2) ANALYSIS OF
OUS PHASE; (4) INSTRUMENTAL METHODS OF ANALYSIS
G OF OZONE; AND (5) AUTOMATED PROCEDURES FOR
ONATION PROCESSES.

LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
DRAWER 519, CHELSEA, MICHIGAN 48118

NUMBER: EW#14598

TE: 87

AND USE OF PRESSURE SEWER SYSTEMS.

R: THRASHER, D.

COSTS: *DESIGN; *MAINTENANCE; *OPERATIONS
*PRESSURE SEWER SYSTEMS; *SEWERS; *WASTEWATER

TE: 124P. \$34.95

BOOK PROVIDES INFORMATION ON THE DESIGN,
MAINTENANCE OF PRESSURE SEWERS. ECONOMIC
HE PRESSURE SEWER SYSTEM ALLOW DEVELOPMENT OF
DEVELOPED AREAS AND MAKE CENTRAL SEWER
E AFFORDABLE FOR BOTH MUNICIPALITIES AND
SSURE SYSTEMS PROVIDE THE ADVANTAGE OF MAKING
AVAILABLE IN AREAS WHERE ON-SITE DISPOSAL HAS
ROVE TO BE UNDESIRABLE.

LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
DRAWER 519, CHELSEA, MICHIGAN 48118

NUMBER: EW#14599

TE: 85

SPILLS IN THE MARINE ENVIRONMENT. THE
FORMATION OF WATER-IN-OIL EMULSIONS AND TAR

PAYNE, J.R.; PHILLIPS, C.R.

ENVIRONMENT; *MARINE ENVIRONMENT; *OIL; *OIL
UM; *RESEARCH REPORTS

TE: 158P. \$34.95

RESEARCH COMPLETED BETWEEN 1981 AND MAY
AND INCLUDES: REVIEWS OF RECENTLY PUBLISHED
AND INVESTIGATIONS AT SPILLS-OF-OPPORTUNITY
ULTS OF RECENT ARCTIC AND SUB-ARCTIC OIL
RIMENTS AND OBSERVATIONS ON THE BEHAVIOR OF
PRESENCE OF ICE.

LEWIS PUBLISHERS, INC., 121 SOUTH MAIN
DRAWER 519, CHELSEA, MICHIGAN 48118

IRIS ACCESSION NUMBER: EW#14600

PUBLICATION DATE: 86

TITLE: GARBAGE BURNING: LESSONS FROM EUROPE. CONSENSUS
AND CONTROVERSY IN FOUR EUROPEAN STATES.

PERSONAL AUTHOR: HERSHKOWITZ, ALLEN

DESCRIPTOR: *CASE STUDIES; *GARBAGE; *EUROPE;
*INCINERATION; *SOLID WASTES; *WASTE DISPOSAL; *POLICIES;
*REGULATIONS; *AIR POLLUTION CONTROL; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 53P. \$7.50

ABSTRACT: THIS REPORT ON THE POLICIES AND REGULATIONS AT
FIVE GARBAGE-BURNING PLANTS IN NORWAY, SWEDEN, WEST GERMANY
AND SWITZERLAND IDENTIFIES MANY PRACTICES IN WORKER TRAINING
AND IN MONITORING AND CONTROLLING AIR POLLUTANTS THAT ARE
CONSIDERED BY SOME TO BE SUPERIOR TO SUCH PRACTICES IN THE
U.S. BASED ON INTERVIEWS WITH MORE THAN 20 AUTHORITIES, THE
REPORT ALSO REVEALS DIFFERING OPINIONS IN EUROPE CONCERNING
THE HEALTH RISKS FROM DIOXIN EMISSIONS.

AVAILABILITY: INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY
10157-8323

IRIS ACCESSION NUMBER: EW#14601

PUBLICATION DATE: 75

TITLE: METHODOLOGY FOR ANALYTICAL TOXICOLOGY. VOL. I.

PERSONAL AUTHOR: SUNSHINE, ERVING

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRUGS; *METALS;
*HANDBOOKS; *ORGANIC COMPOUNDS; *TOXIC SUBSTANCES;
*TOXICOLOGY

DESCRIPTIVE NOTE: 478P. U.S.--\$80.00, OUTSIDE U.S.--\$
92.00

ABSTRACT: THIS IS VOLUME I OF A THREE VOLUME SERIES ON
METHODOLOGY FOR ANALYTICAL TOXICOLOGY. THIS VOLUME CONTAINS
INFORMATION ON OVER 100 SUBSTANCES INCLUDING THERAPEUTIC AND
DRUGS OF ABUSE, HEAVY METALS, AND ORGANIC VOLATILE
SUBSTANCES. FOR EACH SUBSTANCE TWO TO THREE PROCEDURES ARE
DESCRIBED IN DETAIL. THE DESCRIPTION INCLUDES: (1)
PRINCIPLE; (2) APPARATUS; (3) REAGENTS; (4) PROCEDURE; (5)
CALCULATIONS; (6) INTERPRETATION; (7) ACCURACY AND
PRECISION; AND (8) INTERFERING SUBSTANCE.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W.,
BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW#14602

PUBLICATION DATE: 82

TITLE: METHODOLOGY FOR ANALYTICAL TOXICOLOGY. VOL.II.

63

AUTHOR: SUNSHINE, ERVING

*ANALYTICAL TECHNIQUES; *CHEMICALS; *DRUGS;
*LABORATORY PROCEDURES; *MATERIALS;
*LABORATORY PROCEDURE; *EDUCATION;
*TOXICOLOGY

DATE: 272P. \$59.50--U.S., \$68.00--OUTSIDE U.S.

THIS IS VOLUME TWO OF A THREE VOLUME SERIES ON ANALYTICAL TOXICOLOGY. APPROXIMATELY 300 PAGES ARE FEATURED INCLUDING VOLATILES, NEUTRAL AND ANTIBIOTICS, ANTICONVULSANTS, ANTIDEPRESSANTS, AND ABUSE. FOR EACH SUBSTANCE 1 OR 2 PROCEDURES ARE GIVEN. THE FOLLOWING ARE GIVEN FOR EACH: PRINCIPLE, OPERATING CONDITIONS, REAGENTS, PROCEDURE, PRECISION, INTERPRETATION, STABILITY AND

CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., ORLANDO FLORIDA 32831

IRIS ACCESSION NUMBER: EW014603

PUBLICATION DATE: 85

TITLE: HAZARDOUS CHEMICALS DATA BOOK. SECOND EDITION.

AUTHOR: SUNSHINE, ERVING

*ANALYTICAL TECHNIQUES; *ANALYTICAL TOXICOLOGY;
*LABORATORY PROCEDURES; *ORGANIC COMPOUNDS;

DATE: 312P. \$156.00--U.S., \$175.00--OUTSIDE U.S.

THIS IS VOLUME III OF A THREE VOLUME SERIES ON ANALYTICAL TOXICOLOGY. VOLUME III PRESENTS A SERIES OF METHODS FOR ISOLATING CHEMICALS AND ANALYZING THE METHODS ARE OBTAINED.

CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., ORLANDO FLORIDA 32831

IRIS ACCESSION NUMBER: EW014604

PUBLICATION DATE: 83

TITLE: ISOLATION AND DISPOSAL OF PCB'S BY THERMAL AND CRYSTALLIZATION METHODS. POLLUTION TECHNOLOGY REVIEW NO. 97.

AUTHOR: ACKERMAN, D.G.; AND OTHERS

*INCINERATION; *NON-THERMAL METHODS; *PCB'S;
*EVALUATION; *WASTE DISPOSAL; *THERMAL METHODS

DATE: 417P. \$48.00

THIS BOOK PRESENTS THERMAL AND NON-THERMAL METHODS FOR THE DESTRUCTION AND DISPOSAL OF POLYCHLORINATED

DIPHENYLS (PCB'S). THE MATERIAL IS PRESENTED IN TWO PARTS. PART I DESCRIBES FUNDAMENTAL PROCESSES OF COMBUSTION, THERMAL DESTRUCTION SYSTEMS, SAMPLING AND ANALYSIS METHODOLOGY, AND FLAME CHEMISTRY RELATIVE TO PCB INCINERATION. PART II PROVIDES DESCRIPTIONS AND EVALUATES VARIOUS ALTERNATIVE CHEMICAL, PHYSICAL, AND BIOLOGICAL PCB REMOVAL AND/OR DESTRUCTION TECHNOLOGIES, INCLUDING CARBON ADSORPTION, CATALYTIC DEHYDROCHLORINATION, CHLORINOLYSIS, SODIUM BASED DECHLORINATIONS, PHOTOLYTIC AND MICROWAVE PLASMA DESTRUCTIONS, CATALYZED WET AIR OXIDATION, AND ACTIVATED SLUDGE, TRICKLING FILTER AND SPECIAL BACTERIAL METHODS.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW014605

PUBLICATION DATE: 86

TITLE: HAZARDOUS CHEMICALS DATA BOOK. SECOND EDITION.

PERSONAL AUTHOR: WEISS, G.

DESCRIPTOR: *CHEMICAL REACTIVITY; *CHEMICALS; *FIRE HAZARDS; *HAZARDOUS MATERIALS; *HEALTH HAZARDS; *POLLUTION EFFECTS; *SHIPPING INFORMATION; *TREATMENT; *HAZARD CLASSIFICATION; *PHYSICAL PROPERTIES; *WATER POLLUTION; *CHEMICAL PROPERTIES

DESCRIPTIVE NOTE: 1069P. \$98.00

ABSTRACT: THIS SECOND EDITION OF THE HAZARDOUS CHEMICALS DATA BOOK SUPPLIES INFORMATION ON MORE THAN 1000 OF THE MOST IMPORTANT HAZARDOUS CHEMICALS. THE COMPILATION OF HAZARDOUS CHEMICALS IS PRESENTED IN A CLEAR, CONCISE, EASY-TO-LOCATE FORMAT. A LARGE QUANTITY OF PERTINENT DATA IS GIVEN FOR EACH OF THE CHEMICALS, WHICH ARE ARRANGED ALPHABETICALLY.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW014606

PUBLICATION DATE: 85

TITLE: SAVING WATER FROM THE GROUND UP. A PILOT STUDY OF IRRIGATION SCHEDULING ON FOUR CALIFORNIA FIELDS.

PERSONAL AUTHOR: RICHARDSON, GAIL; MUELLER-BEILSCHMIDT, PETER

DESCRIPTOR: *CALIFORNIA; *CONSERVATION; *AGRICULTURE; *ENERGY USE; *IRRIGATION; *WATER CONSERVATION; *WATER USE; *WATER SUPPLY

DESCRIPTIVE NOTE: 60P. \$1.50

ABSTRACT: THIS BOOKLET DOCUMENTS THE RESULTS OF FOUR EXPERIMENTS ON COMMERCIAL CALIFORNIA FIELDS SHOWING HOW

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USE LOW-COST GYPSUM BLOCKS TO MONITOR SOIL
IRRIGATION AND CUT THEIR WATER AND ENERGY USE
T OR MORE.

INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY

NUMBER: EW#146#8

DATE: 85

NG A RIVER'S TOXIC POLLUTION. A CASE STUDY OF

OR: ROHMANN, STEVEN O.; AND OTHERS

*CHEMICALS; *HUDSON RIVER; *INDUSTRIAL WASTES;
*TOXIC SUBSTANCES; *WATER POLLUTION CONTROL;
*TREATMENT; *WATER QUALITY

NOTE: 15#P. \$12.##

IS REPORT PROVIDES AN INVENTORY OF TOXIC
INTO AN ENTIRE U.S. WATERWAY. IT IDENTIFIES 185
AND SEWAGE TREATMENT PLANTS DISCHARGING MAJOR
ALS INTO THE HUDSON RIVER AND ITS TRIBUTARIES.
PROVIDE RECREATION FOR MILLIONS AND DRINKING
EARLY 2##,###. THIRTEEN CHARTS AND 33 MAPS SHOW
AND LOCATIONS OF 26 CHEMICAL DISCHARGES.

INFORM, 381 PARK AVENUE SOUTH, NEW YORK CITY,

NUMBER: EW#146#9

DATE: DEC. 86

NG WATER: A COMMUNITY ACTION GUIDE.

R: BOYD, SUSAN; AND OTHERS

CITIZEN PARTICIPATION; *COMMUNITY ACTION;
*DISEASE CONTROL; *PUBLIC HEALTH; *WATER
*TREATMENT; *WATER QUALITY

NOTE: 35P.

HOW MUCH OF THE DRINKING WATER IN THE U.S. IS
CONSUMPTION, PROTECTING ITS QUALITY AND ASSURING
IT ARE BECOMING INCREASINGLY DIFFICULT. THIS
ATTEN FOR INDIVIDUALS AND GROUPS WHO ARE
AT THE DRINKING WATER IN THEIR COMMUNITIES. IT
GENERAL INTRODUCTION TO THE COMPLEX ISSUES OF
RISK AND PROTECTION WITH GUIDELINES FOR PUBLIC
SPECIFIC SECTIONS OF THE DOCUMENT ADDRESS:
QUALITY STANDARDS AND SOURCES OF CONTAMINATION;
HEALTH EFFECTS OF VARIOUS POLLUTANTS; (3) HOW
RISK STANDARDS ARE SET; (4) DRINKING WATER
SUPPLY AND CONSERVATION; (6) WATER MANAGEMENT
FEDERAL LEGISLATION; (8) INNOVATIVE STATE

PROGRAMS (FROM FLORIDA, NEW JERSEY, MINNESOTA,
MASSACHUSETTS, WISCONSIN, AND CALIFORNIA); (9) GUIDELINES
FOR COMMUNITY ACTION; (10) WATER TESTING; (11) HOME
TREATMENT; AND (12) BOTTLED WATER. A COMPREHENSIVE LIST OF
REFERENCES ON EACH TOPIC IS INCLUDED.

AVAILABILITY: CONCERN, INC., 1794 COLUMBIA RD., N.W.,
WASHINGTON, D.C. 2##8#9

IRIS ACCESSION NUMBER: EW#1461#

PUBLICATION DATE: 86

TITLE: GROUND WATER QUALITY PROTECTION. STATE AND LOCAL
STRATEGIES.

DESCRIPTOR: *CASE STUDIES; *GROUNDWATER; *LEGISLATION;
*MANAGEMENT; *WASTEWATER; *WATER QUALITY; *WATER RESOURCES;
*REGULATION; *STATE ROLE; *FEDERAL ROLE; *LOCAL ROLE; *WATER
POLLUTION CONTROL

DESCRIPTIVE NOTE: 322P. \$24.5# 15-24 COPIES: 15X
DISCOUNT, 25-499 COPIES: 25X DISCOUNT

ABSTRACT: THIS DOCUMENT EXAMINES REPRESENTATIVE PROGRAMS
FOR DEALING WITH GROUND WATER CONTAMINATION. SECTIONS
INCLUDE: (1) INTRODUCTION AND BACKGROUND; (2) SUMMARY OF
CONCLUSIONS AND RECOMMENDATIONS; (3) SUMMARIES OF THE STATE
AND LOCAL GROUND WATER PROGRAMS REVIEWED; AND (4) STATE AND
LOCAL STRATEGIES TO PROTECT GROUND WATER. AN EXTENSIVE
BIBLIOGRAPHY, REGULATORY INFORMATION, AND LEGISLATION ARE
INCLUDED IN THE APPENDIXES.

AVAILABILITY: NATIONAL ACADEMY PRESS, 21#1 CONSTITUTION
AVE., WASHINGTON, D.C. 2#418

IRIS ACCESSION NUMBER: EW#14611

PUBLICATION DATE: 86

TITLE: INFORMATION NEEDS FOR GROUNDWATER POLLUTION CONTROL.

PERSONAL AUTHOR: HAIMES, YACOV Y.

DESCRIPTOR: DETECTION; *GROUNDWATER; CONTAINMENT;
*INFORMATION NEEDS MONITORING; MANAGEMENT; *POLLUTION
CONTROL; POLLUTION PREVENTION; OPERATIONS; RESEARCH;
TRAINING

DESCRIPTIVE NOTE: 19#-198P.

ABSTRACT: IN AN EFFORT TO UNDERSTAND THE INFORMATION NEEDED
FOR DEALING WITH GROUNDWATER POLLUTION CONTROL, A HIERARCHY
OF OBJECTIVES MODELING STEPS AND ASPECTS OF POLLUTION
CONTROL IS MAPPED. SPECIFIC INFORMATION NEEDS ARE
IDENTIFIED.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V#8 N#3

IRIS NUMBER: EW#14612
PUBLICATION DATE: 86
TITLE: TRAINING OF PROFESSIONALS FOR GROUNDWATER

AUTHOR: PERRINE, RICHARD L.
DESCRIPTOR: *CALIFORNIA; *GROUNDWATER; *CASE STUDIES;
*TRAINING NEEDS; *POLLUTION CONTROL; *WATER
CONTROL

DESCRIPTIVE NOTE: 199-289P.
ABSTRACT: TRAINING NEEDS FOR GROUNDWATER PROTECTION
ARE CONSIDERED. A CASE STUDY OF A CALIFORNIA
CITY IS USED TO CONSIDER NEEDS.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS NUMBER: EW#14613
PUBLICATION DATE: 86

TITLE: METHODS AND ACTIVITIES OF GROUNDWATER PROTECTION;
OR INSTRUCTIONAL COORDINATION.

AUTHOR: CANTER, LARRY

DESCRIPTOR: *COORDINATION; *GROUNDWATER; *FUNDING;
*COORDINATION; *MANAGEMENT; *PERSONNEL; *WATER
CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 219-224P.

ABSTRACT: THIS PAPER EXPLORES VARIOUS ELEMENTS OF
PROTECTION PROGRAMS AND COORDINATION NEEDS AND
GENERAL POLICY ISSUES. EXAMPLES INCLUDE MEASURES
FOR OPTIMUM COORDINATION, INFORMATION EXCHANGE,
AND PERSONNEL.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS NUMBER: EW#14614
PUBLICATION DATE: 86

TITLE: EFFECTIVENESS AND EQUITY OF GROUNDWATER MANAGEMENT
IN THE WESTERN UNITED STATES.

AUTHOR: EMEL, JACQUE L.; MADDOCK, THOMAS III.

DESCRIPTOR: *EFFECTIVENESS; *EQUITY; *GROUNDWATER;
*PROPERTY RIGHTS; *AQUIFER DEVELOPMENT; *WATER
SUPPLY

DESCRIPTIVE NOTE: 225-236P.

ABSTRACT: THIS PAPER CONSIDERS THE EFFECTIVENESS AND EQUITY

OF THE SET OF MANAGEMENT ALTERNATIVES USED BY ADMINISTRATIVE
AGENCIES IN THE 17 CONTINENTAL STATES OF THE WESTERN U.S. TO
ACCOMPLISH THE GOALS OF PROPERTY RIGHT PROTECTION AND
AQUIFER DEVELOPMENT.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14615

PUBLICATION DATE: 86

TITLE: CONCEPTUAL DESIGN FOR A GROUNDWATER QUALITY
MONITORING STRATEGY.

PERSONAL AUTHOR: RAJAGOPAL, R.

DESCRIPTOR: *DESIGN; *GROUNDWATER; *MONITORING; *MONITORING
PROGRAMS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 244-264P.

ABSTRACT: DESCRIBED IS THE CONCEPTUAL DESIGN FOR A
GROUNDWATER QUALITY MONITORING STRATEGY.

AVAILABILITY: THE ENVIRONMENTAL PROFESSIONAL; V8 N3

IRIS ACCESSION NUMBER: EW#14619

PUBLICATION DATE: APR 86

TITLE: NEAR-REAL-TIME FORECASTING OF LARGE-LAKE WATER
SUPPLIES; A USER'S MANUAL.

PERSONAL AUTHOR: CROLEY, THOMAS E.; HARTMAN, HOLLY C.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *COMPUTER SOFTWARE;
*FORECASTING; *LAKES; *LAKE LEVEL; *USER MANUALS; *WATER
RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 87P.

ABSTRACT: DESCRIBED IS A SOFTWARE PACKAGE FOR MAKING
DETERMINISTIC OR PROBABILISTIC OUTLOOKS OF BASIN MOISTURE
STORAGE CONDITIONS, BASIN RUNOFF, NET LAKE SUPPLIES, AND
LAKE LEVELS SIX MONTHS INTO THE FUTURE FOR LARGE LAKES. THE
PACKAGE WAS DESIGNED FOR USE ON SMALL COMPUTERS WITH A
FORTRAN-77 OR TURBO-PASCAL COMPILER, 2-5 MEGABYTES OF DISK
STORAGE, AND A MINIMUM OF CPU AND MEMORY RESOURCES.

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

IRIS ACCESSION NUMBER: EW#1462#

TITLE: ON-SITE WASTEWATER TREATMENT.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *DESIGN; *MANAGEMENT;
*RESEARCH NEEDS; *PLANNING; *ON-SITE WASTEWATER TREATMENT;

*WASTEWATER TREATMENT; *PERFORMANCE EVALUATION
NOTE: 383P. MEMBER--\$23.50, LIST--\$27.00

THE PROCEEDINGS OF THE FOURTH NATIONAL SYMPOSIUM
ON LARGE AND SMALL COMMUNITY SEWAGE SYSTEMS HELD
IN 1982 PRESENTS THE LATEST INFORMATION ON TECHNOLOGY,
DESIGN AND RESEARCH NEEDS RELATING TO ON-SITE WASTE
WATER DISPOSAL. THESE 42 PAPERS FEATURE CURRENT
TRENDS IN DESIGN, PLANNING, MANAGEMENT, AND PERFORMANCE
OF SEWAGE SYSTEMS, THE USE OF COMPUTERS FOR ON-SITE
EVALUATION AND MORE.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS,
1400 NILES RD., ST. JOSEPH, MI 49085-9659

IRIS NUMBER: EW014621

PUBLICATION DATE: 82

TITLE: WATER IN THE WEST: WHAT INDIAN WATER MEANS TO THE

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.

DESCRIPTOR: *INDIANS; *RESOLUTIONS; *POLICIES; *WATER
RIGHTS; *WESTERN UNITED STATES

DESCRIPTIVE NOTE: 160P. \$15.00 PAPER, COMPLETE SERIES
(I, II, & III)--\$55.00

THIS IS VOLUME ONE IN A SERIES OF SOURCEBOOKS.
IT DESCRIBES THE HISTORICAL BACKGROUNDS OF DISPUTES OVER
WATER BETWEEN INDIANS AND NON-INDIANS IN THIRTEEN
STATES. IT PROVIDES A SUMMARY OF DECISION-MAKING AND
STRATEGIES, IN ADDITION TO REVIEWS OF CURRENT
WATER DISPUTES OVER INDIAN WATER RIGHTS. CONTENTS
INCLUDE: (1) BLACKFEET LAND AND WATER CONSERVATION; (2) AK-
COMUNITY WATER RIGHTS SETTLEMENT ACT OF 1978;
AND (3) AN WATER COMPACT OF 1980; AND (4) INDIAN WATER
RIGHTS IN 1981.

ISLAND PRESS, A DIVISION OF THE CENTER FOR
ECONOMIC AND SOCIAL STUDIES, 1718 CONNECTICUT AVENUE, SUITE 300,
WASHINGTON, D.C. 20009

IRIS NUMBER: EW014623

PUBLICATION DATE: 85

TITLE: WATER IN THE WEST: WESTERN WATER FLOWS TO THE

PERSONAL AUTHOR: FOLK-WILLIAMS, JOHN A.; AND OTHERS

DESCRIPTOR: *MANAGEMENT; *POLICIES; *WATER RIGHTS; *WATER
RIGHTS; *WESTERN UNITED STATES

DESCRIPTIVE NOTE: 217P. \$25.00 PAPER, COMPLETE SERIES
(I, II, & III)--\$55.00

ABSTRACT: THIS BOOK OUTLINES THE DEVELOPMENT OF STRONG
COMPETITION FOR CONTROL OF THE WATER RESOURCES IN THE
SOUTHWEST AND DESCRIBES THE METHODS BEING USED TO MAKE
DECISIONS. THIS WELL-DOCUMENTED VOLUME HIGHLIGHTS THE
INNOVATIVE ALTERNATIVES AND SOLUTIONS USED TO SATISFY THE
NEEDS OF WATER USERS IN BOTH URBAN AND RURAL AREAS.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE
300, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014626

PUBLICATION DATE: 84

TITLE: AMERICA'S WATER: CURRENT TRENDS AND ENGINEERING
ISSUES.

PERSONAL AUTHOR: CLARK, EDWIN H.; METZGER, PHILIP C.

DESCRIPTOR: *CONTAMINANTS; *POLICIES; *MANAGEMENT; *RISK
ASSESSMENT; *TRENDS; *WATER QUALITY; *WATER RESOURCES;
*WATER SUPPLY; *RISK CONTROL

DESCRIPTIVE NOTE: 51P. \$7.50 (PAPER)

ABSTRACT: THIS BOOK CONSIDERS TRENDS IN WATER QUALITY,
WATER RESOURCES, AND MANAGEMENT. THE DISCUSSION CONSIDERS
TRENDS AND EMERGING ISSUES. CONTENTS INCLUDE: (1)
ENVIRONMENTAL CONTAMINANTS; (2) RISK ASSESSMENT AND RISK
CONTROL; AND (3) FEDERAL, STATE, AND LOCAL ENVIRONMENTAL
POLICIES.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE
300, WASHINGTON D.C. 20009

IRIS ACCESSION NUMBER: EW014627

PUBLICATION DATE: 84

TITLE: WATER RESOURCES: DISTRIBUTION, USE, AND MANAGEMENT.

PERSONAL AUTHOR: MATHER, JOHN R.

DESCRIPTOR: HISTORY; LEGISLATION; NATURAL RESOURCES;
*MANAGEMENT; RESOURCE MANAGEMENT; *TRENDS; *WATER RESOURCES;
*WATER USE; *WATER SUPPLY; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 439P. \$40.00 (CLOTH)

ABSTRACT: THIS PUBLICATION IS A COMPREHENSIVE EXAMINATION
OF WORLD-WIDE WATER RESOURCES. CONTENTS INCLUDE: (1) AN
HISTORICAL PERSPECTIVE ON FEDERAL WATER RESOURCES
LEGISLATION; (2) INTERACTION BETWEEN WATER PROBLEMS AND THE
HYDROLOGIC CYCLE; (3) COMPARISONS OF SOVIET AND AMERICAN
WATER POLICY; (4) WEATHER MODIFICATION AND SALINE WATER
CONVERSION; (5) NEWLY EMERGING TRENDS IN WATER USE; AND (6)
FUTURE DIRECTIONS IN WATER RESOURCE MANAGEMENT.

AVAILABILITY: ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE
300, WASHINGTON, D.C. 20009

67

NUMBER: EW014620

DATE: 85

CT RISK REDUCTION IN THE CHEMICAL INDUSTRY.

OR: MILLER, LEONARD A.; AND OTHERS

*CHEMICALS; *COMPLIANCE; *INSURANCE; *INDUSTRY;
*REGULATIONS; *RISK ASSESSMENT; *RISK REDUCTION;

NOTE: 300P. \$75.00 (PAPER)

SIGNED FOR MANAGERS, ENGINEERS, AND LEGAL
THE CHEMICAL INDUSTRY, THIS VALUABLE HANDBOOK
EAS THAT AFFECT POTENTIAL LIABILITY OF CHEMICAL
AND DISTRIBUTORS. EXAMINED ARE WAYS OF
KS, SUCH AS WARNINGS, DIRECTIONS FOR PRODUCT
RIATE RISK ASSESSMENTS, INSURANCE, AND THE
CORPORATE FILES.

ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE
ON, D.C. 20009

NUMBER: EW014630

DATE: 86

DOUS WASTE MANAGEMENT: REDUCING THE RISK.

OR: GOLDMAN, BENJAMIN A.; AND OTHERS

*HAZARDOUS WASTE MANAGEMENT; *LEGISLATION;
*REGULATIONS; *VENDORS; *WASTE MANAGEMENT;

NOTE: 336P. \$64.95 (CLOTH), \$34.95 (PAPER)

IS A GUIDE TO FACTS AND STRATEGIES FOR
WASTE MANAGEMENT. CONTENTS INCLUDE: (1) TOOLS
WASTE MANAGEMENT VENDORS; (2) HOW TO RANK THE
3) "REPORT CARDS" EVALUATING THE TEN HAZARDOUS
MENT FACILITIES; (4) "REPORT CARDS" EVALUATING
GEST HAZARDOUS WASTE CORPORATIONS; (5) THE TWO
S WASTE LAWS; (6) MATCHING MANAGEMENT
TO WASTES-RECOMMENDATIONS FOR THE INDUSTRY;
NDATIONS FOR THE REGULATORS.

ISLAND PRESS, 1718 CONNECTICUT AVENUE, SUITE
ON, D.C. 20009

NUMBER: EW014631

DATE: APRIL 87

TRY OF GROUNDWATER.

R: RICE, RICHARD E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGICAL PROCESSES;
*CHEMISTRY; *CHEMICAL REACTIONS; *CONTAMINATION;
*GROUNDWATER; *MANAGEMENT; *MONITORING; *SAMPLING; *WATER
QUALITY

DESCRIPTIVE NOTE: 300P. \$49.95

ABSTRACT: THIS BOOK ON CHEMISTRY OF GROUND WATER DEALS WITH
BOTH NATURAL AND CONTAMINATED WATERS. INFORMATION INCLUDES:
EVOLUTION OF GROUND WATER, PRODUCTION OF ACID WATERS, TRACE
ELEMENT MOBILITY, CHEMICAL EQUILIBRIUM COMPUTER MODELS,
OXYGEN AND SULFUR ISOTOPES IN POLLUTION STUDIES,
RADIONUCLIDES, NITRATES AND PHOSPHATES, IMPORTANCE OF
NITROGEN ISOTOPES IN DETERMINING SOURCES OF NITRATE
POLLUTION, SOLUTE TRANSPORT MODELING, ORGANIC CHEMICALS,
INTERACTIONS WITH THE GEOLOGIC MATRIX, TRANSPORT, AND
DEGRADATION MONITORING AND SAMPLING OF GROUND WATER AND
ANALYTICAL CHEMISTRY TECHNIQUES.

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TITLE: ENVIRONMENTAL EPIDEMIOLOGY.

PERSONAL AUTHOR: KOPFLER, FRED; CRAUN, GUNTHER

DESCRIPTOR: *AIR EXPOSURE; *CHEMICALS; *CONTAMINANTS;
*ENVIRONMENTAL EPIDEMIOLOGY; *EXPOSURE; *MONITORING;
*OCCUPATIONAL EXPOSURE; *PUBLIC HEALTH; *WATER EXPOSURE

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ABSTRACT: CONTENTS OF THE BOOK INCLUDE: (1) USE OF
BIOLOGICAL MONITORING TO ASSESS EXPOSURE DATA; (2)
ENVIRONMENTAL EPIDEMIOLOGIC CONSIDERATIONS FOR ASSESSING
EXPOSURE AND ASSOCIATING EXPOSURE WITH MORBIDITY/MORTALITY;
(3) HEALTH AND EXPOSURE DATA BASES; AND (4) ASSESSMENT OF
EXPOSURE TO ENVIRONMENTAL CONTAMINANTS FOR EPIDEMIOLOGIC
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IRIS ACCESSION NUMBER: EW014633

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TITLE: QUANTITATIVE RISK ASSESSMENT FOR ENVIRONMENTAL AND
OCCUPATIONAL HEALTH.

PERSONAL AUTHOR: HALLENBECK, V.H.; CUNNINGHAM, KATHLEEN M.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ENVIRONMENTAL HEALTH;
*INSTRUCTIONAL MATERIALS; *OCCUPATIONAL HEALTH;
*POSTSECONDARY EDUCATION; *RISK ASSESSMENT

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THIS PUBLICATION PRESENTS CONCEPTS, METHODS, AND
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(4) EXPOSURE CHARACTERIZATION; (5) QUALITATIVE
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ITIONS AND LABELS.

CLASSIFICATION SYSTEMS; *DEFINITIONS; *HAZARD
I SYSTEMS; *NATIONAL FIRE PROTECTION
*OSHA; *REQUIRED LABELS; *U.S DEPARTMENT OF
; *USEPA

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ND SYMBOLS USED BY (1) U.S. DEPARTMENT OF
; (2) OSHA; (3) USEPA; AND (4) THE NATIONAL
N ASSOCIATION.

HAZARDOUS MATERIALS INFORMATION CENTER,
OCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN,

NUMBER: EW014636

TO KNOW: A GUIDE TO FEDERAL AND STATE

GUIDES; *COMPLIANCE; *FEDERAL PROGRAMS;
MATERIALS; *LEGISLATION; *REGULATIONS;
RIGHT TO KNOW; *STATE PROGRAMS; *TRAINING;

NOTE: 270P. \$65.00

S GUIDE, UPDATED TO SEPTEMBER 1986, EXPLAINS
AND STATE RIGHT TO KNOW REQUIREMENTS. IT
KLISTS FOR COMPLIANCE PLANNING, REFERENCE
MPARING STATE REQUIREMENTS TO THOSE OF OSHA, A
YSIS OF THE FEDERAL HAZARD COMMUNICATION
A SUMMARY OF EACH STATE'S RIGHT TO KNOW
GUIDE IS ORGANIZED BY TOPIC AND INCLUDES
ON TRAINING, LABELING, SUBSTANCES,
REPORTING, AND RULES FOR MATERIAL SAFETY DATA

HAZARDOUS MATERIALS INFORMATION CENTER,
OCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN,

IRIS ACCESSION NUMBER: EW014630

TITLE: USING THE HAZARDOUS WASTE MANIFEST: A MANUAL OF
FEDERAL AND STATE REQUIREMENTS.

DESCRIPTOR: *HAZARDOUS WASTES; *MANIFESTS; *SHIPPING;
*TRANSPORTATION; *FEDERAL REGULATIONS; *STATE REGULATIONS;
*REGULATIONS; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 304P. \$56.00

ABSTRACT: DESIGNED FOR HAZARDOUS WASTE GENERATORS AND
TRANSPORTERS WHO ASSIST THEM WITH MANIFEST FORMS, THE MANUAL
CLEARLY EXPLAINS EPA'S MANIFEST SYSTEM AND GIVES YOU STEP-
BY-STEP INSTRUCTIONS FOR COMPLETING THE UNIFORM MANIFEST FOR
HIGHWAY SHIPMENTS. THEN, FOR EACH STATE, THE MANUAL COVERS
11 IMPORTANT TOPICS ON MANIFEST USE, INCLUDING: (1) STATE-
REQUIRED MANIFEST FORMS; (2) STATE-REQUIRED INFORMATION
ITEMS; (3) RULES FOR OUT-OF-STATE GENERATORS; (4) STATE-
REGULATED WASTES; AND (5) STATE AGENCY CONTACT PERSON. THE
MANUAL ALSO PROVIDES REFERENCE TABLES--50 STATES AT A
GLANCE.

AVAILABILITY: HAZARDOUS MATERIALS INFORMATION CENTER,
INTER/FACE ASSOCIATES, INC., 62 WASHINGTON ST., MIDDLETOWN,
CT 06457

IRIS ACCESSION NUMBER: EW014639

PUBLICATION DATE: MAY 87

TITLE: INNOVATIVE STATE POLICIES FOR AIDING COMMUNITY WATER
SUPPLIERS.

PERSONAL AUTHOR: HUMPHREY, NANCY PATRICIA; WALKER,
CHRISTOPHER

DESCRIPTOR: *COMMUNITIES; *FINANCING; *MANAGEMENT;
*POLICIES; *STATE POLICIES; *REGULATIONS; *WATER SUPPLY;
*WATER TREATMENT; *WATER SUPPLIERS

DESCRIPTIVE NOTE: 34-41P.

ABSTRACT: SEVERAL STATES ARE BEGINNING TO ADDRESS THE
FINANCING PROBLEMS OF WATER PROBLEMS. STATE POLICY
INITIATIVES FOR ASSISTING COMMUNITIES IN MANAGING,
FINANCING, AND REGULATING WATER SUPPLIES ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N5

IRIS ACCESSION NUMBER: EW014640

PUBLICATION DATE: MAY 87

TITLE: REGULATORY DILEMMAS ENSNARE ARIZONA'S SMALL WATER
COMPANIES..

PERSONAL AUTHOR: HOLUB, HUGH A.

DESCRIPTOR: *FINANCING; *ARIZONA; *CONSERVATION; *PROBLEMS;
*PRIVATE COMPANIES; *REGULATIONS; *PUBLIC HEALTH; *WATER
COMPANIES; *WATER SUPPLIERS; *WATER RATES

DESCRIPTIVE NOTE: 42-47P.

ABSTRACT: CAUGHT BETWEEN WATER QUALITY REGULATIONS AND
LIMITED RATE INCREASES, SMALL PRIVATELY OWNED WATER
COMPANIES ARE APPEALING FOR LEGISLATIVE RELIEF. DESCRIBED
ARE SOME OF THE PROBLEMS FACED BY SMALL WATER COMPANIES IN
ARIZONA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
N5

IRIS ACCESSION NUMBER: EW814641

PUBLICATION DATE: MAY 85

TITLE: A WATER RESOURCES AUDIT FOR SMALL COMMUNITIES.

PERSONAL AUTHOR: TRAUTH, KATHLEEN M.; AND OTHERS

DESCRIPTOR: *AUDITS; *CONSERVATION; *MANAGEMENT; *PLANNING;
*RURAL AREAS; *SMALL COMMUNITIES; *WATER RESOURCES; *WATER
SUPPLIERS; *WATER USE; *WASTEWATER; *STORM WATER

DESCRIPTIVE NOTE: 48-51P.

ABSTRACT: A SELF-HELP AUDIT ENABLES WATER UTILITIES TO
IDENTIFY STRENGTHS AND WEAKNESSES TO ASSIST WITH PLANNING.
THIS ARTICLE DESCRIBES A "DO-IT-YOURSELF" AUDIT.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V79
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NT SYSTEMS

PROJECTS

(2) EWB14626 EWB14632
 (7) EWB14338 EWB14415 EWB14448 EWB14454 EWB14468 EWB14596 EWB14631

(2) EWB14357 EWB14491

(1) EWB14352

(1) EWB14333

(1) EWB14451

(1) EWB14543

(1) EWB14613

(2) EWB14363 EWB14364

(3) EWB14363 EWB14364 EWB14482

(3) EWB14363 EWB14364 EWB14482

(2) EWB14363 EWB14364

(3) EWB14414 EWB14417 EWB14439

(1) EWB14528

(28) EWB14163 EWB14178 EWB14338 EWB14349 EWB14358 EWB14351 EWB14352
 EWB14358 EWB14359 EWB14362 EWB14375 EWB14481 EWB14412 EWB14414 EWB14417
 EWB14418 EWB14441 EWB14456 EWB14458 EWB14511 EWB14517 EWB14528 EWB14549
 EWB14568 EWB14569 EWB14575 EWB14576 EWB14598

(3) EWB14483 EWB14439 EWB14488

(1) EWB14544

(1) EWB14411

(1) EWB14484

(1) EWB14333

(1) EWB14375

(1) EWB14559

(1) EWB14348

(1) EWB14345

(1) EWB14559

(1) EWB14635

(1) EWB14481

(1) EWB14334

(1) EWB14513

(25) EWB14161 EWB14162 EWB14163 EWB14178 EWB14227 EWB14229 EWB14325
 EWB14326 EWB14327 EWB14348 EWB14362 EWB14394 EWB14395 EWB14414 EWB14458
 EWB14493 EWB14523 EWB14568 EWB14567 EWB14568 EWB14569 EWB14584 EWB14598

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- (2) EWØ1423Ø EWØ14669
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- (1) EWØ14454
- (3) EWØ1445Ø EWØ14451 EWØ14409
- (1) EWØ1447Ø
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- (1) EWØ14224
- (1) EWØ146Ø9
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- (3) EWØ14227 EWØ14337 EWØ14621
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EWØ1436Ø EWØ14441 EWØ14456 EWØ14511 EWØ14519 EWØ14554 EWØ14556 EWØ14556
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- (1) EWØ1451Ø
- (2) EWØ146Ø1 EWØ146Ø2
- (5) EWØ14425 EWØ14444 EWØ1444Ø EWØ14457 EWØ14497
- (3) EWØ1422Ø EWØ14571 EWØ14589
- (2) EWØ1436Ø EWØ14457
- (1) EWØ14614
- (2) EWØ14224 EWØ14336
- (1) EWØ1422Ø
- (3) EWØ144Ø4 EWØ144Ø5 EWØ1447Ø



MANAGEMENT
 RESPONSE (1) EWØ1447Ø
 (2) EWØ14361 EWØ14473
 RESPONSE PLANS (2) EWØ14165 EWØ14361
 RESPONSES (2) EWØ14164 EWØ14165
 RESPONSE TEAMS (1) EWØ14164
 DEVELOPMENT (1) EWØ14334
 (2) EWØ1422Ø EWØ14349
 PRESERVATION (1) EWØ1422Ø
 RECOVERY (1) EWØ14594
 (1) EWØ146ØØ
 (2) EWØ1448Ø EWØ145Ø3
 (1) EWØ14486

(17) EWØ14164 EWØ14345 EWØ14348 EWØ14484 EWØ14425 EWØ14442 EWØ14444
 EWØ14445 EWØ14418 EWØ14459 EWØ14497 EWØ14499 EWØ1458Ø EWØ14586 EWØ14587
 EWØ14588 EWØ14599

AUDITS (4) EWØ1436Ø EWØ14481 EWØ14471 EWØ14491
 (1) EWØ14574
 EPIDEMIOLOGY (2) EWØ1458Ø EWØ14632
 HEALTH (1) EWØ14633
 IMPACT (7) EWØ1417Ø EWØ14444 EWØ14454 EWØ14585 EWØ14586 EWØ14587 EWØ14588
 IMPACT (1) EWØ14425
 PROBLEMS (1) EWØ14484
 (1Ø) EWØ14217 EWØ1423Ø EWØ14323 EWØ14327 EWØ14341 EWØ14342 EWØ14369
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 EWØ14527 EWØ1456Ø EWØ14572
 (1) EWØ14439
 (1) EWØ14614
 (3) EWØ14423 EWØ14437 EWØ14469
 (1) EWØ14469
 (2) EWØ14442 EWØ146ØØ
 (1) EWØ14355
 (1) EWØ14335
 (1) EWØ14632

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(20)	EWØ14161	EWØ14162	EWØ1417Ø	EWØ14229	EWØ1423Ø	EWØ14324	EWØ14326
EWØ14327	EWØ14349	EWØ1436Ø	EWØ14361	EWØ14362	EWØ14369	EWØ14375	EWØ14393
EWØ14395	EWØ14397	EWØ14411	EWØ14414	EWØ14419	EWØ14439	EWØ14455	EWØ1447Ø
EWØ14472	EWØ14493	EWØ14531	EWØ14558	EWØ14568			
(1)	EWØ14636						
(1)	EWØ14638						
(1)	EWØ14347						
(3)	EWØ14375	EWØ14426	EWØ1461Ø				
(3)	EWØ14347	EWØ1448Ø	EWØ145ØØ				
(1)	EWØ14671						
(1)	EWØ14517						
(1)	EWØ14442						
(4)	EWØ14469	EWØ1447Ø	EWØ14471	EWØ14482			
(1)	EWØ14484						
(1)	EWØ14394						
(1)	EWØ14394						
(4)	EWØ14351	EWØ14375	EWØ14639	EWØ1464Ø			
(1)	EWØ14537						
(1)	EWØ146Ø5						
(2)	EWØ145Ø7	EWØ145Ø8					
(2)	EWØ14522	EWØ14523					
(1)	EWØ14329						
(2)	EWØ14169	EWØ1433Ø					
(1)	EWØ1452Ø						
(1)	EWØ14521						
(1)	EWØ14619						
(4)	EWØ14346	EWØ14375	EWØ14411	EWØ14613			
(1)	EWØ14375						
(1)	EWØ146ØØ						
(1)	EWØ14349						
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(1)	EWØ14161						

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ACTIVATED CARBON

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MATERIALS

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FORMATION POTENTIAL

SIFICATION

SIFICATION SYSTEMS

MATERIALS

MATERIALS

WASTE GENERATORS

WASTE MANAGEMENT

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WASTE TRANSPORTERS

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(1)	EW014556							
(22)	EW014330	EW014338	EW014354	EW014356	EW014367	EW014402	EW014415	
	EW014440	EW014460	EW014481	EW014495	EW014585	EW014591	EW014592	EW014593
	EW014610	EW014611	EW014612	EW014613	EW014614	EW014615	EW014631	
(1)	EW014355							
(1)	EW014332							
(1)	EW014354							
(2)	EW014409	EW014411						
(2)	EW014164	EW014439						
(3)	EW014445	EW014590	EW014636					
(1)	EW014331							
(2)	EW014459	EW014601						
(1)	EW014605							
(1)	EW014635							
(20)	EW014165	EW014167	EW014168	EW014344	EW014361	EW014366	EW014397	
	EW014404	EW014455	EW014484	EW014499	EW014500	EW014516	EW014532	
	EW014537	EW014573	EW014574	EW014605	EW014636			
(1)	EW014222							
(1)	EW014410							
(1)	EW014630							
(22)	EW014167	EW014344	EW014346	EW014347	EW014357	EW014361	EW014401	
	EW014410	EW014450	EW014455	EW014461	EW014464	EW014473	EW014479	EW014482
	EW014499	EW014573	EW014574	EW014583	EW014590	EW014595	EW014630	
(2)	EW014345	EW014557						
(1)	EW014410							
(2)	EW014500	EW014505						
(2)	EW014479	EW014605						
(1)	EW014479							
(1)	EW014220							
(1)	EW014396							
(1)	EW014627							
(1)	EW014476							
(1)	EW014557							
(1)	EW014600							
(1)	EW014437							

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 (4) EWØ14167 EWØ14571 EWØ146ØØ EWØ146Ø4
 ORS (1) EWØ14418
 (1) EWØ14222
 (1) EWØ14621

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(12) EWØ14225 EWØ14344 EWØ144Ø9 EWØ1445Ø EWØ1449Ø EWØ14559 EWØ14575
 EWØ14576 EWØ1459Ø EWØ14594 EWØ14595 EWØ146ØØ
 (2) EWØ1441Ø EWØ1462Ø

DISSEMINATION

(1) EWØ14222

NEEDS

(1) EWØ14611

SOURCES

(1) EWØ1459Ø

SYSTEMS

(2) EWØ1351Ø EWØ1434Ø

TECHNOLOGY

(2) EWØ1435Ø EWØ14551

(2) EWØ14437 EWØ14572

ON
 COORDINATION

(1) EWØ14325

(1) EWØ14613

IMPROVEMENT

(4) EWØ1422Ø EWØ14221 EWØ14332 EWØ14547

MATERIALS

(14) EWØ1351Ø EWØ14222 EWØ14461 EWØ14471 EWØ14484 EWØ14486 EWØ14494
 EWØ14546 EWØ14552 EWØ14553 EWØ145ØØ EWØ14589 EWØ146Ø2 EWØ14633

(1) EWØ1462Ø

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(3) EWØ14224 EWØ14225 EWØ14465

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(1) EWØ14545

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(1) EWØ146Ø2

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(7) EWØ1421Ø EWØ14331 EWØ14446 EWØ14474 EWØ14486 EWØ14526 EWØ146Ø3

(1) EWØ14172

(1) EWØ14619

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(1) EWØ14619
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 (2) EWØ14452 EWØ14531
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(1Ø) EWØ14346 EWØ14464 EWØ14499 EWØ14519 EWØ14583 EWØ14586 EWØ14589
 EWØ1461Ø EWØ1463Ø EWØ14636

AMENDMENTS

(3) EWØ14457 EWØ14518 EWØ14627

(1) EWØ14518

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(2) EWØ14519 EWØ14628

(1) EWØ14353

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(3) EWØ14426 EWØ14439 EWØ1461Ø

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(1) EWØ145ØØ

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(17) EWØ14169 EWØ14217 EWØ14323 EWØ14325 EWØ14341 EWØ14397 EWØ14417
 EWØ14441 EWØ14458 EWØ14472 EWØ14523 EWØ14526 EWØ14528 EWØ1457Ø EWØ14572
 EWØ14584 EWØ14598

PROGRAMS

(1) EWØ14169

(62) EWØ1351Ø EWØ14169 EWØ14171 EWØ14334 EWØ14335 EWØ14343 EWØ14345
 EWØ14348 EWØ14351 EWØ14352 EWØ14357 EWØ14366 EWØ144ØØ EWØ144Ø6
 EWØ144Ø9 EWØ14417 EWØ1444Ø EWØ14441 EWØ14442 EWØ14445 EWØ14447 EWØ14448
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 EWØ1457Ø EWØ145Ø3 EWØ145Ø4 EWØ14589 EWØ1461Ø EWØ14613 EWØ14614 EWØ1462Ø
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(3) EWØ14439 EWØ14457 EWØ14611

(1) EWØ14627

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- (1) EWØ14638
- (3) EWØ14447 EWØ14449 EWØ14479
- (1) EWØ14451
- (1) EWØ14224
- (1) EWØ14599
- (1) EWØ1447Ø
- (2) EWØ14366 EWØ14524
- (1) EWØ1434Ø
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- (1) EWØ14498
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- (1) EWØ14534
- (4) EWØ14218 EWØ14396 EWØ1442Ø EWØ146Ø1
- (1) EWØ14349
- (1) EWØ1351Ø
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- (1) EWØ1456Ø
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- (4) EWØ14337 EWØ1446Ø EWØ14497 EWØ14536
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- (16) EWØ14171 EWØ14336 EWØ14344 EWØ14356 EWØ14367 EWØ144Ø9 EWØ14415
EWØ14437 EWØ14446 EWØ1448Ø EWØ14559 EWØ14592 EWØ14597 EWØ14615 EWØ14631
EWØ14632
- (1) EWØ14611
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- (1) EWØ14354
- (1) EWØ14426
- (1) EWØ14338
- (1) EWØ14581



RE PROTECTION ASSOCIATION (1)
LLUTANT DISCHARGE ELIMINATION (1)

EWØ14635
EWØ14426

SOURCES (1)

EWØ14457

SOURCES (2)

EWØ14462 EWØ14465

MENT (2)

EWØ14466 EWØ14627

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EWØ14375

(3)

EWØ14516 EWØ14571 EWØ1459Ø

(1)

EWØ14162

URCE POLLUTION (1)

EWØ14423

METHODS (1)

EWØ146Ø4

NA (1)

EWØ14524

(1)

EWØ14162

EXPOSURE (1)

EWØ14632

HEALTH (2)

EWØ145Ø1 EWØ14633

(1)

EWØ14457

(3)

EWØ14329 EWØ14521 EWØ14525

(1)

EWØ14442

SPECTOR GENERAL (1)

EWØ14424

ITS (1)

EWØ14423

GES (1)

EWØ14423

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EWØ14363

(2)

EWØ14355 EWØ14599

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EWØ14599

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EWØ1462Ø

WATER TREATMENT (1)

EWØ14571

ENUES (1)

EWØ14348

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(67) EWØ14169 EWØ14172 EWØ14217 EWØ1421Ø EWØ14219 EWØ14224 EWØ14226
EWØ14226 EWØ14227 EWØ14228 EWØ14229 EWØ1423Ø EWØ14323 EWØ14324 EWØ14326
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EW014572 EW014575 EW014576 EW014598

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(3) EW014330 EW014601 EW014603

(3) EW014460 EW014533 EW014591

(1) EW014409

(1) EW014544

(1) EW014635

(1) EW014525

(1) EW014399

(1) EW014419

(2) EW014533 EW014597

(1) EW014531

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(1) EW014604

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(5) EW014222 EW014442 EW014481 EW014587 EW014588

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TECHNIQUES

SYSTEMS

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IDENTIFICATION

(3) EWØ1416Ø EWØ14386 EWØ14599
 (1) EWØ14364

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(1) EWØ14222

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(1) EWØ14598

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 (4) EWB14219 EWB14343 EWB14400 EWB14567
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		EW014585	EW014594					
	(2)	EW014461	EW014506					
MATERIALS	(3)	EW014447	EW014474	EW014476				
	(18)	EW014224	EW014225	EW014336	EW014346	EW014347	EW014399	EW014410
		EW014516	EW014519	EW014574	EW014582	EW014600	EW014628	EW014630
		EW014630	EW014639	EW014640				
	(2)	EW014355	EW014360					
	(1)	EW014350						
	(3)	EW014210	EW014409	EW014636				
	(1)	EW014462						
LABELS	(1)	EW014635						
	(3)	EW014457	EW014497	EW014523				
	(1)	EW014611						
SIGN	(1)	EW014459						
THODOLOGY	(1)	EW014434						
EDS	(1)	EW014620						
PORTS	(12)	EW014406	EW014420	EW014425	EW014442	EW014459	EW014495	EW014512
		EW014513	EW014514	EW014522	EW014549	EW014599		
VIEWS	(2)	EW014434	EW014444					
	(1)	EW014621						
MANAGEMENT	(1)	EW014627						
COVERY	(5)	EW014220	EW014349	EW014360	EW014517	EW014509		
	(1)	EW014164						
GE FLOW CONTROL	(1)	EW014529						
GE RATES	(1)	EW014400						
OW	(1)	EW014636						
MENT	(11)	EW014459	EW014481	EW014500	EW014516	EW014532	EW014555	EW014581
		EW014593	EW014626	EW014628	EW014633			
	(1)	EW014626						
ON	(1)	EW014620						
	(1)	EW014600						
	(2)	EW014551	EW014641					
IG WATER ACT	(2)	EW014456	EW014510					

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 ERATION
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 SING
 Y APPROACH
 IZATION
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(11)	EWØ14164	EWØ14397	EWØ14398	EWØ14399	EWØ14458	EWØ14464	EWØ14527
EWØ14532	EWØ14537	EWØ14572	EWØ14628				
(1)	EWØ14398						
(4)	EWØ14356	EWØ14437	EWØ14446	EWØ14631			
(2)	EWØ14161	EWØ14163					
(1)	EWØ14589						
(2)	EWØ14393	EWØ14427					
(1)	EWØ14469						
(1)	EWØ14395						
(1)	EWØ14342						
(5)	EWØ1442Ø	EWØ14524	EWØ14525	EWØ14549	EWØ14558		
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(1)	EWØ14685						
(1)	EWØ1434Ø						
(1)	EWØ14491						
(2)	EWØ14161	EWØ14163					
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EWØ14575	EWØ14576						
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(1)	EWØ14567						
(1)	EWØ14412						
(1)	EWØ14419						
(1)	EWØ14575						
(2)	EWØ14167	EWØ14418					
(1)	EWØ14575						
(1)	EWØ14418						
(1)	EWØ14339						
(1)	EWØ14571						
(1)	EWØ14529						
(1)	EWØ14419						
(1)	EWØ14396						
(2)	EWØ14219	EWØ14343					



UNITIES
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(2) EWØ14441 EWØ14641
(1) EWØ14439

(1) EWØ14395

ONATE

(1) EWØ14363

OXIDE

(1) EWØ14537

ATION

(1) EWØ14423

(1) EWØ14423

OR EXTRACTION SYSTEMS

(1) EWØ144Ø5

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(1) EWØ144Ø6

(7) EWØ144Ø5 EWØ14423 EWØ14469 EWØ144Ø1 EWØ144Ø6 EWØ14496 EWØ14579

(3) EWØ1436Ø EWØ14452 EWØ146ØØ

(3) EWØ14345 EWØ1445Ø EWØ14461

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(1) EWØ14465

(3) EWØ14344 EWØ14491 EWØ14537

(1) EWØ14521

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(6) EWØ14334 EWØ14335 EWØ144Ø7 EWØ14494 EWØ14534 EWØ14535

(3) EWØ144Ø9 EWØ14411 EWØ14519

(1) EWØ14639

(3) EWØ14414 EWØ14415 EWØ14636

TIONS

(1) EWØ1463Ø

(5) EWØ14366 EWØ14375 EWØ14414 EWØ14426 EWØ1461Ø

(2) EWØ1448Ø EWØ145ØØ

(1) EWØ14462

NALYSIS

(1) EWØ14559

(1) EWØ14356

(1) EWØ14462

(2) EWØ14537 EWØ145Ø5

(3) EWØ1416Ø EWØ14355 EWØ144Ø2

(1) EWØ14641

(1) EWØ14171

UMPS

(2) EWØ1445Ø EWØ14572

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EAUTHORIZATION	(1)	EWØ14346						
	(1)	EWØ14346						
	(1)	EWØ14221						
ING	(1)	EWØ14437						
OFF	(2)	EWØ14171	EWØ14469					
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	EWØ14514							
	(1)	EWØ1416Ø						
	(1)	EWØ14329						
	(1)	EWØ14521						
	(25)	EWØ14324	EWØ14325	EWØ14327	EWØ14358	EWØ14369	EWØ144Ø1	EWØ144Ø5
	EWØ14412	EWØ14447	EWØ14452	EWØ14455	EWØ14456	EWØ1447Ø	EWØ14473	EWØ14499
	EWØ145ØØ	EWØ14533	EWØ14549	EWØ14551	EWØ14567	EWØ14568	EWØ14573	EWØ14593
	EWØ1462Ø	EWØ1463Ø						
	(1)	EWØ14222						
	(1)	EWØ14339						
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TREATMENT	(1)	EWØ14427						
	(2)	EWØ1457Ø	EWØ14579					
LABORATORIES	(1)	EWØ14489						
	(2)	EWØ14326	EWØ14514					
POSITIONING	(1)	EWØ14571						
TOOLS	(1)	EWØ146Ø4						
	(1)	EWØ1433Ø						
CS	(1)	EWØ144Ø9						
	(2)	EWØ145Ø7	EWØ145ØØ					
	(5)	EWØ14444	EWØ14459	EWØ146Ø1	EWØ146Ø2	EWØ146Ø3		
NCES	(2Ø)	EWØ14336	EWØ14346	EWØ14361	EWØ14366	EWØ144Ø4	EWØ1441Ø	EWØ14454
	EWØ14414	EWØ144Ø1	EWØ14533	EWØ1457Ø	EWØ14579	EWØ14583	EWØ14585	EWØ14586
	EWØ14537	EWØ1458Ø	EWØ1459Ø	EWØ146Ø1	EWØ146ØØ			
NCES	(2)	EWØ14345	EWØ14347					
	(2)	EWØ1441Ø	EWØ1459Ø					
	(17)	EWØ1422Ø	EWØ14221	EWØ14333	EWØ14335	EWØ14352	EWØ1445Ø	EWØ14473
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	(1)	EWØ14611						

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IDS	(1)	EWØ14612					
PROCEDURES	(1)	EWØ1422Ø					
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	(1)	EWØ146Ø5					
	(6)	EWØ14359	EWØ1436Ø	EWØ14434	EWØ14462	EWØ14626	EWØ14627
	(1)	EWØ14355					
GATION	(1)	EWØ145Ø4					
NE	(1)	EWØ14331					
NES	(1)	EWØ1433Ø					
ING	(1)	EWØ14342					
	(2)	EWØ14226	EWØ14515				
	(1)	EWØ14227					
LIGHT	(1)	EWØ14533					
RADIATION	(1)	EWØ14337					
STORAGE	(1)	EWØ1416Ø					
STORAGE TANKS	(2)	EWØ14355	EWØ144Ø2				
OM	(1)	EWØ14427					
ES	(1)	EWØ14441					
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PMENT	(1)	EWØ14469					
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	(1)	EWØ14434					
	(2)	EWØ14449	EWØ14451				
TED SLUDGE DEWATERING	(1)	EWØ14569					
DOLOGY	(1)	EWØ144Ø5					
	(2)	EWØ1446Ø	EWØ14591				
	(1)	EWØ1463Ø					

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(1) EW014527
 (1) EW014482

(2) EW014552 EW014553

(1) EW014461

(1) EW014581

(1) EW014570

(1) EW014456

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(2) EW014345 EW014461

(1) EW014359

(1) EW014520

(1) EW014450

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 (1) EW014502
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 (1) EW014354
 (2) EW014621 EW014623



*WET AIR OXIDATION	(1)	EWØ14339	
*WETLANDS	(2)	EWØ.4426	EWØ1444Ø
*WHITING	(1)	EWØ14515	
*WISCONSIN	(1)	EWØ14349	
*WORKSHOPS	(2)	EWØ1422Ø	EWØ14545
*WORLD PROBLEMS	(1)	EWØ14627	
*WPCF	(1)	EWØ14225	
*WRITING	(1)	EWØ14546	