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EPA Publications Bibliography

Quarterly Abstract Bulletin

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SAMPLE ENTRY

NTIS Order Number/Media Code Price Codes	**PB94-100443/REB** **PC A10/MF A03**
Report Title	Engineering and Environmental Aspects of Recycled Materials for Highway Construction
Corporate Author	University of Wyoming Research Corp., Laramie
Personal Authors	D. Bloomquist, G. Diamond, M. Oden, B. Ruth, and M. Tia.
Date	Jul 93
Pages	222p
Report Number	EPA/530/R-93/013A
Contract Number	DTFH61-93-C-00060
Abstract	The report represents an assessment of environmental aspects and engineering factors related to the utilization of recycled materials in highway construction. A basic overview and assessment of different technologies, processes, and methods of recycling various material into highway appurtenances and for highway construction are presented with consideration of environmental and health risks.
Keywords (Descriptors & Identifiers)	*Recycled materials, *Road materials, *Environmental impact assessments, Waste recycling, Materials recovery, Highway construction, Environmental issues, Emission factors, Risk assessment, Asphalts, Plastics, Glass, Rubber, Public health, Engineering assessment.

EPA PUBLICATIONS BIBLIOGRAPHY
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PB94-127966/REB PC **A05**/MF **A01**
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Inside the Hotline: A Compilation of 1993 Monthly Hotline Reports.
Booz-Allen and Hamilton, Inc., Bethesda, MD.
Mar 94, 82p EPA/530/R-93/004M
Contract EPA-68-WO-0039
See also PB93-159572. Sponsored by Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

The Resource Conversation and Recovery Act (RCRA)/Underground Storage Tanks (UST), Superfund, and Emergency Planning and Community Right-to-Know Act (EPCRA) Hotline was established to respond to inquiries from the regulated community and the public concerning waste management, disposal, and emergency planning and response regulations. The document is a compilation of Questions and Answers and Federal Register summaries from individual Monthly Hotline Reports for the period of January to December 1993. It is divided into three parts: Questions and Answers, Federal Register summaries, and Indices to the questions, according to subject matter, regulatory and statutory citations. Neither the questions nor the Federal Register summaries are intended to fully represent or be used in place of the regulations.

Keywords: *Hazardous materials, *Waste management, *Regulations, Waste disposal, Superfund, US EPA, Public information, Legal aspects, Law enforcement, Emergencies, Project planning, Underground storage, Storage tanks, Proposals, Leakage, Statutes, Requirements, Standards, Indexes(Documentation), Resource Conservation and Recovery Act, Federal Register.

PB94-163250/REB PC **A08**/MF **A02**
Composting Yard Trimmings and Municipal Solid Waste.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
May 94, 153p EPA/530/R-94/003

Contents:
- Planning;
- Basic Composting Principles;
- Collection Methods;
- Processing Methods, Technologies, and Odor Control;
- Facility Design and Siting;
- The Composting Process:
- Environmental, Health, and Safety Concerns;
- State Legislation and Incentives;
- Potential End Users;
- Product Quality and Marketing;
- Community Involvement;
- Economics;
- Additional Sources of Information on Composting;
- Composting Equipment;
- and Glossary of Compost Terms.

Keywords: *Composting, *Municipal wastes, *Solid waste disposal, Waste recycling centers, Solid waste collection systems, Waste processing, Environmental impacts, Solid waste management, Site selection, Incentives, Economic analysis, Citizen participation, Government policies, State government, Local government, *Yard wastes.

PB94-165362/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Mercury Usage and Alternatives in the Electrical and Electronics Industries. Final rept.
Battelle, Columbus, OH.
B. M. Sass, M. A. Salem, and L. A. Smith. Jan 94, 58p EPA/600/R-94/047
Contract EPA-68-C0-0003
See also PB92-162569. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Many industries have already found alternatives for mercury or have greatly decreased mercury use. However, the unique electromechanical and photoelectric properties of mercury and mercury compounds have made replacement of mercury difficult in some applications. The study was initiated to identify source reduction and recycling options for mercury in the electrical and electronics industry (SIC 36) and measurement and control instrument manufacture (SIC 382). The project identified trends in pollution prevention for mercury use throughout the U.S. economy by a review of the sources and use of mercury in the ecomony. Regulatory trends encouraging mercury pollution on prevention were examined, and current practices in the electrical and electronics industry were reviewed in details to identify potential source reduction and reuse options for mercury.

Keywords: *Pollution abatement, *Electrical industry, *Electronics industry, *Mercury(Metal), Substitutes, Solid waste disposal, Waste recycling, Heavy metals, Trends, Regulations, Electric equipment, Electric switches, RCRA wastes, Waste minimization, SIC 382, SIC 36.

PB94-170248/REB PC **A07**/MF **A02**
Technical Resource Document: Extraction and Beneficiation of Ores and Minerals. Volume 1. Lead-Zinc.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Jun 94, 128p EPA/530/R-94/011
See also PB88-162631 and PB94-113404.

This industry profile presents the results of the EPA's Research into the domestic lead-zinc mining industry and is one of a series of profiles of major mining sectors. The report briefly characterizes the geology of lead-zinc ores and the economics of the industry. Following this discussion is a review of lead-zinc extraction and beneficiation methods; this section provides the context for descriptions of wastes and materials managed by the industry, as well as a discussion of the potential environmental effects that may result from lead-zinc mining. The report concludes with a description of the current regulatory programs that apply to the lead-zinc mining industry as implemented by EPA, Federal Land Management Agencies, and selected states.

Keywords: *Lead ores, *Zinc ores, *Beneficiation, *Pollution control, Mineral economics, Extraction, Mining geology, Site investigations, Regulations, US EPA, Mine wastes, Solid waste management, Materials recovery.

PB94-170255/REB PC **A06**/MF **A02**
Innovative Methods of Managing Environmental Releases at Mine Sites.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Apr 94, 111p EPA/530/R-94/012

The report describes source reduction and recycling practices and innovative techniques for waste management currently used in mining. EPA's intent is the identification of these practices and the fostering of technology and information transfer throughout the mining industry. Source reduction can include process control to produce a purer product while reducing hazardous constituents in the waste stream and production of a new saleable product while reducing hazardous constituents in the waste stream. Recycling opportunities unique to mining are slag reprocessing, tailings reprocessing, pipe recycling/reuse, and recycling mine tires. The other practices section addresses topics of a more general nature and includes a description of best management practices for water management and the facility pollution prevention plan prepared by the cyprus baghdad mine. To assist with technical questions and issues, a list of technical contacts familiar with each technology is provided.

Keywords: *Mine wastes, *Acid mine drainage, *Waste management, Water pollution control, Land pollution control, Mine wastes, Tailings, Slag, Pyrite, Waste recycling, Materials recovery, Reprocessing, Flotation, Metal cleaning, Pipes(Tubes), Source reduction.

PB94-170305/REB PC **A17**/MF **A04**
Technical Resource Document: Extraction and Beneficiation of Ores and Minerals. Volume 2. Gold.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Jul 94, 393p EPA/530/R-94/013
See also PB94-195203 and Volume 2, PB94-170248.

This industry profile presents the results of the EPA's research into the domestic gold industry and is one of a series of profiles of major mining sectors. This report briefly characterizes the geology of gold ores and the economics of the industry. Following this discussion is a review of gold extraction and beneficiation methods; this section provides the context for descriptions of wastes and materials managed by the industry, as well as a discussion of the potential environmental effects that may result from gold mining. The report concludes with a description of the current regulatory programs that apply to the gold mining industry as implemented by EPA, Federal land management agencies, and selected states. Appendices include flow sheets of specific mine operations, NPL site summaries related to gold extraction and beneficiation, comments on site visits and EPA responses.

Keywords: *Gold ores, *Mining industry, *Pollution control, Extraction, Beneficiation, Mining geology, Materials recovery, Mine wastes, Waste streams, Site characterization, Environmental effects, Environment pollution, Standards compliance, Pollution regulations, Requirements, Law(Jurisprudence), Mineral economics, Solid waste management, Gold mining, Gold industry.

PB94-176823/REB PC **A07**/MF **A02**
EMAP Information Management Strategic Plan: 1993-1997. Project rept.
Environmental Protection Agency, Washington, DC. Environmental Monitoring and Assessment Program.
R. F. Shepanek. Mar 94, 127p EPA/620/R-94/017
See also PB94-136256.

The Information Management Strategic Plan for the Environmental Monitoring and Assessment Program (EMAP) describes how EMAP information will be managed from field sampling through the delivery of products to the user. This plan cuts across the entire EMAP program and explains the process for developing an information management infrastructure which will enable EMAP to achieve its long-term objectives. The Plan provides a strategy for meeting hardware, software, documentation support, and system designs that will meet EMAP Resource and Coordinating Group requirements. Users of EMAP data and information are discussed in the Plan as well as the process and technology with which they can access EMAP data and other data sources.

Keywords: *Environment management, *Information management, Information systems, Data base man-

agement, Data compilation, Information resources management, Information dissemination, Information retrieval, Systems engineering, Geographic information systems, Ecology, Ecosystems, Natural resources, Environmental protection, Environmental impacts, *EMAP(Environmental Monitoring and Assessment Program), *Environmental Monitoring and Assessment Program, Environmental assessment.

PB94-176831/REB PC **A07**/MF **A02**
Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation.
Statistical Methods for Evaluating the Attainment of Cleanup Standards. Volume 3. Reference-Based Standards for Soils and Solid Media.
Battelle Pacific Northwest Labs., Richland, WA.
R. O. Gilbert, and J. C. Simpson. Jun 94, 142p EPA/230/R-94/004
See also DE93007230 and PB89-234959. Sponsored by Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation. and Department of Energy, Washington, DC.

The document gives statistical procedures for evaluating whether pollution parameter concentrations in remediated soil and solid media at Superfund sites are statistically above site-specific reference-based cleanup standards. The variability in the reference-area and cleanup-unit measurements is taken into by the testing procedures. The intended audience for this document includes EPA regional managers, Superfund site responsible parties, state environmental protection agencies, and contractors for these groups. The document can be applied to implement and evaluate emergency or routine removal actions, remedial response activities, final status surveys, and Superfund enforcement.

Keywords: *Soil contamination, *Solid waste management, *Pollution sampling, *Superfund, Hazardous materials, Pollution control, Remediation, Environmental persistence, Site characterization, Risk assessment, Statistical analysis, Standards, Quality assurance, Environmental surveys, Cleanup, Data Quality Objectives.

PB94-176896/REB PC **A07**/MF **A02**
Arid Ecosystems 1992 Pilot Report. Environmental Monitoring and Assessment Program.
Environmental Protection Agency, Research Triangle Park, NC. Environmental Monitoring and Assessment Program.
W. G. Kepner, R. O. Kuehl, R. P. Breckenridge, J. M. Lancaster, and S. G. Leonard. Mar 94, 129p EPA/620/R-94/015
See also PB93-100139.

The Environmental Monitoring and Assessment Program (EMAP) is being implemented to provide quantitative assessments of status and trends in the condition of ecological resources within the United States. In 1992 the EMAP Arid Ecosystems Resource Group (EMAP-Arid) conducted a pilot study in the southeastern Utah portion of the Colorado Plateau. The report describes the results of that pilot study. This was the first field activity for the EMAP-Arid group and evaluates several indicators of arid ecosystem condition; assessing the ecological condition of the Colorado Plateau was beyond the scope of this initial study. Section 2 describes the study objectives, study area, site selection and sample plot design. Section 3 gives the indicator measurement methods. Section 4-7 provides results of the study objectives. Included in Section 8 are recommendations for 1993 and 1994 pilot studies.

Keywords: *Environmental protection, *Arid land, *Ecosystems, *Pollution control, Natural resources, Vegetation, Soil properties, Remote sensing, Site selection, Field tests, Biological indicators, Design criteria, Soil erosion, Guidelines, Sampling, Quality assurance, Trees(Plants), Information management, Maps, Statistical analysis, *Colorado plateau, *Southeastern Region(Utah), EMAP(Environmental Monitoring and Assessment Program).

PB94-182623/REB PC **A02**/MF **A01**
U.S. EPA Monitoring and Measurement Technologies Program (MMTP). Part 1 and Part 2. Journal articles.
Environmental Monitoring Systems Lab., Las Vegas, NV.
J. L. Jack. c1994, 7p EPA/600/J-94/266
Pub. in American Environmental Laboratory, p27-29 Dec 93. See also PB92-963201.

The goal of the Superfund Innovative Technology Evaluation (SITE) Monitoring and Measurement Technologies Program (MMTP) is to accelerate the recognition and use of technologies that have the potential to provide more cost-effective, better, faster, or safer means to detect and monitor contaminants and the geophysical characteristics of Superfund sites. Through the program, developers are provided with the opportunity to rigorously evaluate the performance of their technologies. The goals of the MMTP are to (1) identify existing technologies, (2) support development of monitoring capabilities not currently addressed, (3) demonstrate technologies, and (4) prepare protocols, guidelines, and SOPs for new methods.

Keywords: *Superfund, *Environmental monitoring, *Pollution sampling, Hazardous materials, Waste management, Pollution control, Remediation, Technology innovation, Implementation, Government policies, Pollution regulations, Requirements, Data analysis, Quality assurance, Quality control, Program management, Reprints, SITE(Superfund Innovative Technology Evaluation), MMTP(Monitoring and Measurement Technologies Program), Cleanup, Innovative treatment technologies, Environmental measurements.

PB94-182672/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Comparison of Chemiluminescence and Ultraviolet Ozone Monitor Responses in the Presence of Humidity and Photochemical Pollutants. Interim rept. 1992-93.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
T. E. Kleindienst, E. E. Hudgens, D. F. Smith, F. F. McElroy, and J. J. Bufalini. c1993, 37p EPA/600/J-94/261
Contract EPA-68-DO-0106
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The effect of water vapor on ozone monitoring instruments was investigated. Five UV type and two chemiluminescence type monitors were employed in this study. The results of the study indicate that in systems containing ozone, water vapor, and zero air only, the chemiluminescence monitors show a systematically higher reading than the UV monitors. Studies were also performed with a smog chamber with simulated polluted air and varying relative humidity. Although the presence of water vapor did not appear to be a problem, a slight positive interference was observed with the UV monitors. This interference was a result of the presence of toluene and some of its photooxidation products which are removed by the ozone scrubber and absorb some of the 254 nm radiaton used to measure ozone. It is concluded that under atmospheric conditions with moderate pollution and relative humidity, both types of instruments give satisfactory measurements for ozone.

Keywords: *Ozone, *Air pollution monitors, *Performance evaluation, Humidity, Water vapor, Dew, Photochemical reactions, Air pollution monitoring, Ultraviolet equipment, Chemiluminescence, Measuring instruments, Comparison, Air pollutants.

PB94-183290/REB PC **A01**/MF **A01**
Pesticide Fact Sheet: E-II Tetradecenyl Acetate; E-11 Tetradecenol.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
May 94, 5p EPA/737/F-94/006

The fact sheet provides chemical information, including a summary of EPA's regulatory position and rationale, for the pesticides containing the active ingredients E-11 Tetradecenyl Acetate and E-11 Tetradecenol. The fact sheet is being issued because these pesticides are being considered for conditional registration.

Keywords: *Pesticides, *Registration, Exposure, Risk assessment, Toxicity, Environmental transport, Environmental impacts, Chemical properties, Ecology, Biological pest control, Pheromones, Labels, Regulations, *Tetradecenyl acetate, *Tetradecenol, Use patterns, CAS 33189-72-9.

PB94-183571/REB PC **A07**/MF **A02**
Acts Related to Solid Waste Management in Illinois. Annual rept.
Illinois State Environmental Protection Agency, Springfield. Div. of Land Pollution Control.
Apr 94, 140p IEPA/BOL-94/152

Contents:
- Degradable Plastic Act;
- Energy Assistance Act of 1989;
- Hazardous and Solid Waste Recycling and Treatment Act;
- Illinois Emergency Planning and Community Right to Know Act;
- Illinois Environmental Facilities Financing Act;
- Illinois Purchasing Act;
- Illinois Solid Waste Management Act;
- Intergovernmental Cooperation Act;
- Junkyard Act;
- Litter Control Act;
- Local Hazardous Waste Collection Program Act;
- Local Solid Waste Disposal Act;
- Metro East Solid Waste Disposal and Energy Producing Service Act;
- Recycled Newsprint Use Act;
- Responsible Property Transfer Act of 1988;
- Solid Waste Disposal District Act;
- Solid Waste Planning and Recycling Act;
- Solid Waste Site Operator Certification Law;
- Township Refuse, Collection and Disposal Act;
- Toxic Pollution Prevention Act;
- Used Motor Oil Recycling Act;
- Waste Oil Recovery Act;
- and Water Supply, Drainage and Flood Control.

Keywords: *Illinois, *Solid waste management, *Government policies, Law(Jurisprudence), Pollution regulations, Legislation, Requirements, Pollution standards, Law enforcement, Solid waste disposal, Solid waste abatement, Waste processing, Waste treatment, State government.

PB94-183621/REB PC **A01**/MF **A01**
Pesticide Fact Sheet: Cinnamaldehyde, Cinnamyl Alcohol, 4-Methoxy Cinnamaldehyde, 3-Phenyl Propanol, 4-Methoxy Phenethyl Alcohol, Indole and 1,2,4 Trimethoxybenzene.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
Apr 94, 4p EPA/737/F-94/005

The document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a group of pesticides.

Keywords: *Pesticides, *Attractants, *Registration, Biological pest control, Chemical properties, Toxicity, Environmental transport, Environmental effects, Biochemistry, Indoles, Labels, Agricultural chemicals, Use patterns, Cinnamaldehyde, Cinnamyl alcohol, Cinnamaldehyde/4-Methoxy, Propanol/3-Phenyl, Phenethyl alcohol/4-Methoxy, Benzene/1-2-4-Trimethoxy.

PB94-184850/REB PC **A10**/MF **A03**
Report to Congress on Metal Recovery, Environmental Regulation and Hazardous Waste.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Feb 94, 205p EPA/530/R-93/018

This report has been completed in response to congressional requests for EPA to conduct a study on the effects of existing regulations on metal recovery of the Nation's waste, how metal recovery can be encouraged, and how these materials should be regulated to protect human health and the environment. Chapters include an introduction and overview to metal recovery of Hazardous Waste and Resource Conservation and Recovery Act (RCRA) Hazardous Waste Regulation, report methodology and limitations, characterization of RCRA subtitle C metal-bearing hazardous wastes, RCRA subtitle regulations affecting metal recovery of hazardous waste, assessment of RCRA subtitle C regulation on metal recovery from hazardous waste in the United States, case studies of metal recovery operations subject to RCRA jurisdiction, assessment of U.S. balance of trade and strategic metals issues and their relationship to metal recovery of hazardous wastes, encouraging environmentally sound metal recovery. Appendices provide examples for source reduction in industries that generate metal-bearing hazardous waste and more specific information on hazards associated with metals.

Keywords: *Materials recovery, *Hazardous materials, *Pollution regulations, Metals, Solid waste management, Industrial wastes, Waste processing, Salvage, Pollution abatement, Pollution control, Environmental effects, Environmental policy, Environmental issues, Government policies, Requirements, *Metal recovery, RCRA(Resource Conservation and Recovery Act), Source reduction.

PB94-186020/REB PC **A07**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Network Design and Optimum Site Exposure Criteria for Particulate Matter. Final rept.
Geomet Technologies, Inc., Germantown, MD.
R. C. Koch, and H. E. Rector. May 87, 134p GEOMET-ESF-1185, EPA/450/4-87/009
Contract EPA-68-02-3584
Portions of this document are not fully legible. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The primary purpose of this document is to assist in planning a network of monitoring sites for measuring particulate matter. The measurements will conform to the new PM10 standard, which replaces the former total suspended particulate (TSP) standard. As a secondary objective, this document will aid in understanding the relationship between PM10 measurements and the quality of air that is sampled. The information contained here will prove useful to both air quality surveillance personnel and the users of air quality monitoring data. In this document, the siting process is viewed dynamically.

Keywords: *Particulates, *Site selection, *Air pollution sampling, Air pollution monitors, Data collection, Air pollution sources, Particle size, Emission factors, Meteorological data, Emissions, Pollution regulations, Air pollution standards, Exposure, Public health, PM10.

PB94-186129/REB PC **A08**/MF **A02**
Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation.
Biological Populations as Indicators of Environmental Change. Volume 1.
ICF International, Inc., Fairfax, VA.
M. McVey, D. E. Hyatt, T. Born, and O. Gutenson. Dec 92, 164p ISBN-0-16-042615-4, EPA/230/R-92/011
Also available from Supt. of Docs. Sponsored by Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation.

Table of Contents:
- Executive Summary;
- Overview of Biological Populations as Indicators of Environmental Change;
- Synopsis of Eight Potential Biological Population Indicators;
- and Conclusions.

Keywords: *Biological indicators, *Environmental monitoring, *Indicator species, Biological populations, Environmental effects, Habitats, Extinction, Endangered species, Ecosystems, Water quality, Forests, Animal behavior, Birds, Fishes, Amphibia, Coral reefs, Marine mammals, Turtles.

PB94-187291/REB PC **A06**/MF **A02**
Available Disposal Capacity for Solid Waste in Illinois. Seventh Annual Report. Rept. for 1 Apr 92-31 Mar 93.
Illinois State Environmental Protection Agency, Springfield. Div. of Land Pollution Control.
Mar 94, 121p IEPA/BOL-94/149
See also PB93-156487.

The Illinois Solid Waste Management Act was enacted in September 1986. This law established the State's commitment to address solid waste handling, based on a solid waste management hierarchy as follows: (1) volume reduction at the source; (2) recycling and reuse; (3) combustion with energy recovery; (4) combustion for volume reduction; and (5) disposal in landfill facilities. The Illinois Environmental Protection Agency (IEPA) is required under the Illinois Solid Waste Management Act to publish an annual report 'regarding the projected disposal capacity availability for solid waste in sanitary landfills.' This is the seventh annual report prepared to meet the requirement. The information presented in this report reflects the reporting period April 1, 1992 - March 31, 1993.

Keywords: *Illinois, *Solid waste disposal, *Capacity, *Landfills, Earth fills, Hazardous materials, Incineration, Waste recycling, Materials handling, Solid waste management, Pollution regulations, Requirements, Regional analysis.

PB94-187358/REB PC **A03**/MF **A01**
Clean Water Act Section 403: Compendium.
Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.
May 94, 47p EPA/842/B-94/002
See also PB94-181542.

EPA's regulatory program under section 403 of the Clean Water Act (CWA) is an integral part of the National Pollutant Discharge Elimination System (NPDES) permit program for ocean discharges. Section 403 requires that discharges to the territorial seas, contiguous zones, and oceans comply with regulatory requirements above and beyond those specifically required of a typical NPDES permit. This collection is organized according to the following categories: Guidance; Regulations/Policy Memos; Reports to Congress; Regional Documentation; Permit-Related Information; and Scientific Products and Models. Within these categories, document citations, sorted alphabetically, include the following attributes: Abstract; EPA Document Number; Date of Publication; and Publication Contact. The following three appendices are also included: Legal Cases; Bulletins and Fact Sheets; and Courses, Conferences, and Workshops.

Keywords: *Point sources, *Ocean waste disposal, *Wate pollution control, *Bibliographies, Clean Water Act, Pollution regulations, Water pollution standards, Discharge(Water), Estuaries, Requirements, Alternatives, Standards compliance, Environmental protection, Environmental impacts, Section 403, NPDES(National Pollutant Discharge Elimination System).

PB94-187523/REB PC **A06**/MF **A02**
Reregistration Eligibility Decision (RED): Periplanone B.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Apr 94, 114p EPA/738/R-94/004

The document presents the Agency's decision regarding the reregistration eligibility of the registered uses of Periplanone B. The document consists of six sections. Section I is the introduction. Section II describes Periplanone B, its uses, data requirements and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for Periplanone B. Section V discusses the reregistration requirements for Periplanone B. Finally, Section VI is the Appendices which support the Reregistration Eligibility Decision.

Keywords: *Pesticides, *Attractants, Pheromones, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Periplanone B, *Reregistration, Propoxur, Use patterns, CAS 61228-92-0.

PB94-187549/REB PC **A03**/MF **A01**
Pesticides Industry Sales and Usage: 1992 and 1993 Market Estimates.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
A. L. Aspelin. Jun 94, 37p EPA/733/K-94/001

The report provides an overview of the pesticide industry for 1992 and 1993. It contains a series of tables with estimates of the U.S. market for those two years. The tables contain information on quantities used and user expenditures (by economic sector and pesticide class), imports, exports, numbers of firms/individuals involved in production/use of pesticides, number of pesticides, certified applicators and on a number of other topics. Much of the tabular information is for the years 1992 and 1993, but historical data are also presented. Graphic versions of the data are included along with a number of the tables.

Keywords: *Sales, *Market analysis, Pesticides, Agricultural chemicals, Economic forecasting, Production, Expenses, International trade, United States, Exports, Graphs(Charts), Tables(Data), *Pesticide industry, Sales volume.

PB94-187556/REB PC **A08**/MF **A02**
Secondary Lead Smelting Background Information Document for Proposed Standards. Volume 1. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jun 94, 154p EPA/453/R-94/024A
See also Volume 2, Appendices, PB94-188612.

The purpose of the report is to document the EPA's information about hazardous air pollutants (HAP's) from secondary lead smelters, the demonstrated technologies available to control HAP emissions, and the costs and environmental impacts of applying these technologies.

Keywords: *Air pollution control, *Smelters, *Secondary materials industry, Lead(Metal), Metal industry, Environmental impacts, Emission factors, Air pollution standards, Standards compliance, Pollution regulations, Air pollution sources, Requirements, Cost analysis, Air pollution economics, Market analysis, Economic impact, Lead smelting, NESHAP(National Emission Standard for Hazardous Air Pollutants).

PB94-187614/REB PC **A01**/MF **A01**
Proposed Effluent Limitations Guidelines and National Emission Standards for Hazardous Air Pollutants for the Production of Pulp, Paper and Paperboard. Industry Subcategory Definitions. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Water.
Nov 93, 7p EPA/821/F-93/003
See also Overview, PB94-187622.

The proposed regulations are organized into 12 subcategories. These subcategories replace the subcategorization scheme used for the existing effluent guidelines for this industry (which are addressed in the Code of Federal Regulations, parts 430 and 431) because they better define the processes typically found in U.S. mills.

Keywords: *Paper industry, *Water pollution standards, *Air pollution standards, Air pollution control, Water pollution control, Papermaking, Paper mills, Pulp mills, Chemical effluents, Emissions, Industrial waste treatment, Process control, Pollution regulations, Standards compliance, Requirements, *Regulatory impact, National Emission Standards for Hazardous Air Pollutants, Categorization, Subcategories.

PB94-187622/REB PC **A02**/MF **A01**
Proposed Effluent Limitations Guidelines and National Emission Standards for Hazardous Air Pollutants for the Production of Pulp, Paper, and Paperboard. Overview. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Water.
Nov 93, 7p EPA/821/F-93/004
See also PB94-187614.

The pulp and paper industry is one of the nation's largest industries. The U.S. Environmental Protection Agency (EPA) estimates that there are approximately 565 manufacturing facilities located in 42 states. These facilities comprise either integrated pulp and paper mills, where pulp is manufactured on-site from virgin wood fiber, secondary fiber, or non-wood fiber, and paper or paperboard products are produced from the pulp; and non-integrated paper mills where only paper or paperboard products are manufactured from purchased pulp or pulp produced elsewhere. The proposed regulation will provide important improvements in protecting human health and the environment by reducing toxic and hazardous pollutant releases to all media.

Keywords: *Paper industry, *Water pollution standards, *Air pollution standards, Air pollution control, Water pollution control, Papermaking, Paper mills, Pulp mills, Chemical effluents, Emissions, Industrial waste treatment, Process control, Pollution regulations, Standards compliance, Requirements, Environmental impacts, *Regulatory impact, Energy impact, National Emission Standards for Hazardous Air Pollutants, Categorization, Subcategories.

PB94-187721/REB PC **A03**/MF **A01**
Selected Terms and Acronyms. Office of Pesticide Programs.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
Jun 94, 47p EPA/738/B-94/002

The listing defines in non-technical language many commonly used terms and acronyms appearing in regulatory documents, reports, correspondence, speeches and testimony, fact sheets, press releases, and other publications produced by EPA's Office of Pesticide Programs (OPP). The terms and acronyms included are ones that have appeared in previously issued lists, supplemented by suggestions from OPP personnel. The terms selected appear frequently in the Pesticide Program's communications, both oral and written, internally and with people outside the program.

Keywords: *US EPA, *Terms, Pesticides, Definitions, Abbreviations, Acronyms, Listings.

PB94-187747/REB PC **A01**/MF **A01**
RED Facts: Tebuthiuron. Fact sheet.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
Apr 94, 9p EPA/738/F-94/006

When a pesticide is eligible for reregistration, EPA announces this and explains why in a Reregistration Eligibility Decision (RED) document. The fact sheet summarizes the information in the RED for tebuthiuron. Tebuthiuron is a relatively nonselective, soil activated herbicide that acts by inhibiting photosynthesis. It is used to control broadleaf and woody weeds, grasses and brush on feed crop sites (pasture and rangeland) and a variety of non-food crop sites including airports/landing fields, outdoor industrial areas, non-agricultural rights-of-way, fencerows, hedgerows, uncultivated areas/soils, and under paved roads and sidewalks in areas where no future landscaping is planned. Primary uses include rangeland and near railroads and other industrial facilities.

Keywords: *Pesticides, *Urea, Amides, Fertilizers, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedure, Requirements, *Tebuthiuron, *Reregistration, Use patterns, CAS 34014-18-1.

PB94-187754/REB PC **A03**/MF **A01**
Pesticide Reregistration Program Report, April 1994.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
Apr 94, 28p EPA/738/R-94/009
See also PB94-166386.

The issue of the Progress Report describes the status of reregistration through the second quarter fiscal year 1994 (FY 94). Fifty-nine REDs have been completed since 1991 representing 96 chemicals/active ingredients (AIs), 3,063 products, and 259 tolerances.

Keywords: *Pesticides, Evaluation, Reviewing, Suspending, Rejection, Utilization, Administrative procedures, Toxicology, Requirements, *Reregistration.

PB94-187762/REB PC **A03**/MF **A01**
Guidelines for Deriving Ambient Aquatic Life Advisory Concentrations.
Environmental Protection Agency, Washington, DC. Office of Water.
1994, 12p
See also PB85-227049.

Aquatic life advisories will be issued for selected chemicals for which not enough toxicity, bioaccumulation, and/or field data are available to allow derivation of ambient water quality criteria for aquatic life using the procedures described in Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses.

Keywords: *Aquatic life, *Chemical compounds, *Water pollution effects, Guidelines, Concentration(Composition), Water quality, Toxicity, Bioaccumulation, Marine biology, Fresh water, *Advisory concentrations, Water quality criteria.

PB94-187770/REB PC **A02**/MF **A01**
Guidance on Water Quality Standards and 401 Certification Programs Administered by Indian Tribes.
Environmental Protection Agency, Washington, DC. Office of Water.
31 Dec 91, 8p
See also PB92-231661.

Section 518 of the Clean Water Act (CWA) authorized EPA to treat Indian Tribes as States for the purposes of sections 303 and 401. This guidance provides procedures for determining Tribal eligibility and supplements the final rule Amendments to the Water Quality Standards Regulation That Pertain to Standards on Indian Reservations, published in the Federal Register on December 12, 1991. To develop and administer a water quality standards program and 401 certification program, an Indian Tribe must submit an application for eligibility to be 'treated as a State'. The attached checklist provides a simplified list of actions required for EPA to determine this eligibility.

Keywords: *Water pollution standards, *American Indians, *Water quality, Certification, Clean Water Acts, States (United States), Regulations.

PB94-187796/REB PC **A03**/MF **A01**
How Best to Promote Industrial Pollution Prevention Through the Effluent Guidelines Process. Recommendations of the Industrial Pollution Prevention Project (IP3) Focus Group.
Environmental Protection Agency, Washington, DC. Office of Water.
May 94, 32p EPA/820/R-94/002
Prepared in cooperation with National Advisory Council for Environmental Policy and Technology, Washington, DC.

The Industrial Pollution Prevention Project (IP3) Focus Group was requested by EPA to provide specific recommendations on how best to promote industrial pollution prevention through the effluent guidelines process. In response to that request, the Group makes the following recommendations to EPA: To promote more industrial pollution prevention, the effluent guidelines process must (1) be more flexible, (2) address all media, and (3) impart a pollution prevention mindset to everyone throughout the effluent guidelines process. To accomplish this, EPA should adopt a specific new approach to the development and achievement of Best Available Technology (BAT) limits.

Keywords: *Water pollution abatement, *Industrial wastes, *Chemical effluents, Water pollution control, Water pollution standards, Alternatives, Incentives, Pollution regulations, Regulatory guides, Guidelines, Permits, Law enforcement, Administrative procedures, Information dissemination, Recommendations, BAT(Best Available Technology).

PB94-187820/REB PC **A03**/MF **A01**
Electric Utility Steam Generating Unit Hazardous Air Pollutant and Mercury Emission Study. Interim Report to Congress Pursuant to the Clean Air Act Amendments of 1990.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Nov 93, 26p EPA/453/R-93/051A

The interim report to Congress is in response to section 112(n) of the 1990 Amendments to the Clean Air Act (the Act). Its purpose is to present to Congress a discussion of the activities to date and the planned activities that will lead to the submittal to Congress of the study of electric utility emissions. Section 112(n) (1) (A) mandates that the EPA perform a study, to be presented in a Report to Congress, of the hazards to public health reasonably anticipated to occur as a result of emissions of the hazardous air pollutants (HAPs), listed under section 112(b), by fossil fuel-fired electric utility steam generating units, after imposition of the requirements of the 1990 Amendments.

Keywords: *Steam generators, *Electric utilities, *Mercury(Metal), *Air pollution monitoring, Exhaust emissions, Toxic substances, Cogeneration, Steam generation plants, Air pollution sources, Pollution regulations, Environmental impacts, *Hazardous air pollutants, Clean Air Act Amendments of 1990.

PB94-187937/REB PC **A03**/MF **A01**
Chesapeake Bay Attitudes Survey, Appendices: Virginia Frequencies.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
May 94, 31p
See also PB94-188448 and PB94-188885.

The Survey Research Center at the University of Maryland at College Park conducted a survey of residents of counties in the watershed of the Chesapeake Bay. The goal of the study, which is discussed in PB94-188448, was to provide baseline data on the attitudes, behavior, and opinions of the residents about pollution, water quality, funding, and clean-up efforts. This volume contains the appendices of Virginia frequencies.

Keywords: *Chesapeake Bay, *Attitude surveys, *Water pollution, *Public opinion, *Watersheds, Virginia, Water quality, Remedial action, Tables(Data), Cleanup operations.

PB94-187952/REB PC **A04**/MF **A01**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Albemarle-Pamlico Estuarine Study Data Management and Analysis System. Functional Description. Final rept.
North Carolina State Center for Geographic Information and Analysis, Raleigh.
Nov 90, 61p APES-90-21
Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.

The State Center for Geographic Information and Analysis (CGIA) conducted a data needs assessment for the Albemarle-Pamlico Estuarine (A/P) Study in the fall of 1988. The purpose of the Functional Description is to provide a conceptual view of the five components of the A/P Study Data Management and Analysis System. These components are: hardware, software, data, people, and procedures. Interactions between the five components result in a set of functions that need to be supported through the A/P System. These functions fall into the broad categories of system management and maintenance, data extraction and management, data creation and editing, data manipulation and summarization, and data analysis and display. Complete descriptions of these functions, and the system as a whole, are provided in the Functional Description.

Keywords: *Geographic information systems, *Data management, *Data analysis, Computer systems hardware, Computer software, Systems engineering, Requirements, Data transfer(Computers), Human resources, Input output processing, *Albemarle-Pamlico Estuary, Albemarle Sound, Pamlico Sound.

PB94-188109/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Acid Extraction Treatment System for Treatment of Metal Contaminated Soils.
Center for Hazardous Materials Research, Pittsburgh, PA.
S. Paff, B. Bosilovich, and N. J. Kardos. Aug 94, 60p
EPA/540/R-94/513
Contract EPA-R-815792-01-0
Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The Acid Extraction Treatment System (AETS) reduces the concentrations and/or leachability of heavy metals in contaminated soils so the soil can be returned to the site from which it originated. The objective of the project was to determine the effectiveness and commercial viability of the process. An account of the activities conducted during the project, the experiments performed, results and conclusions, are included in the report. A pilot-scale AETS was used to treat 5 different soils containing different combinations of seven heavy metals. The AETS can, in most cases, treat the entire soil, with no separate disposal or stabilization of the clay fines needed. The estimated treatment costs are between $80 and $180 per cubic yard.

Keywords: *Soil contamination, *Heavy metals, *Extraction, *Acid treatment, *Superfund, Solid waste treatment, Leaching, Remedial action, Hazardous ma-

terials, Research and development, Laboratories, Cost engineering, Technology innovation, Arsenic, Lead(Metal), Cadmium, Chromium, Copper, Nickel, Zinc, AETS(Acid Extraction Treatment System), Soil washing, Surrogate soils, Pedricktown(New Jersey), King of Prussia(New Jersey), Palmerton(Pennsylvania), Butte(Montana).

PB94-188117/REB PC **A10**/MF **A03**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Physical and Numerical Modeling of ASD Exhaust Dispersion Around Houses. Final rept. May-Sep 93.
Cohen (S.) and Associates, Inc., McLean, VA.
D. E. Neff, R. N. Meroney, and H. El-Badry. Jul 94, 212p EPA/600/R-94/115
Contract EPA-68-DO-0097
Prepared in cooperation with Colorado State Univ., Fort Collins. Dept. of Civil Engineering. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

A study has been completed which physically modeled, in a wind tunnel, the dispersion of exhaust plumes from active soil depressurization (ASD) radon mitigation systems in houses. The wind tunnel testing studied the effects of three different exhaust locations: midway up the roof slope, simulating an ASD stack interior to the house; at the eave, simulating an exterior stack; and grade-level exhaust (no stack). Plume dispersion effects were studied using both qualitative smoke visualization and quantitative tracer gas techniques, as the following variables were systematically varied: house height; roof pitch; wind direction; wind speed; and exhaust velocity. The tracer gas results show that grade-level exhausts consistently result in the highest tracer concentrations against the face of the house, although these concenrations may not be serious if exhaust concentrations are low. The wind tunnel physical modeling was supplemented by analytic and numeric modeling, to determine how well the analytic and numeric models reproduced the wind tunnel results. Existing analytic models over-predicted the exhaust gas concentrations that would be seen against the face and roof of the house, and downwind.

Keywords: *Radon, *Soil-structure interactions, *Air flow, Roofs, Basements, Ventilation, Tracers, Plumes, Wind tunnel models, Atmospheric dispersion, Wind velocity, Radioecological concentration, Environmental transport, Path of pollutants, Radiation monitoring, Mitigation, Soil gases, Mathematical models, Residential buildings, Air pollution control, Indoor air pollution, *ASD(Active Soil Depressurization), *Active soil depressurization, Air-structure interactions.

PB94-188190/REB PC **A03**/MF **A01**
Environmental Monitoring Systems Lab., Las Vegas, NV. Advanced Monitoring Systems Div.
Potential Use of Ultrasound in Chemical Monitoring. Project rept.
Nevada Univ., Las Vegas. Harry Reid Center for Environmental Studies.
G. E. Orzechowska, and E. J. Poziomek. Jul 94, 45p EPA/540/R-94/502
Sponsored by Environmental Monitoring Systems Lab., Las Vegas, NV. Advanced Monitoring Systems Div.

The U.S. Environmental Protection Agency has been examining the potential of combining sonication with existing measurement technologies for monitoring specific classes of organic pollutants in water. The research specifically addressed using ultrasound (ultrasonic) processors to decompose aqueous organochlorine compounds into ions as a screening method for organochlorine pollutants in water. Anions specific to the inorganic components would be produced in sonication. Changes in ion concentrations before and after sonication would be used in monitoring for the pollutants. The success with compounds served as proof-of-principle and forms a rationale for expanding the research to other pollutant classes.

Keywords: *Water pollution monitoring, *Chlorine organic compounds, *Ultrasonic waves, Ultrasonic testing, Ions, Chlorides, Concentration(Composition), Field tests, Hazardous materials, Research and development, Ultrasonography, Decomposition, Chlorobenzenes, Chloroform, Carbon tetrachloride, *Sonication, *Ultrasound, Organochlorine, Ethylene/trichloro.

PB94-188448/REB PC **A05**/MF **A01**
Chesapeake Bay Attitudes Survey. Final rept.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
28 Apr 94, 96p
See also PB94-187937, PB94-188885, PB94-188927, and PB94-188935.

The Survey Research Center at the University of Maryland at College Park conducted a survey of residents of counties in the watershed of the Chesapeake Bay. The target population for this telephone survey was adults age 18 or older residing in telephone households in the watershed of the Chesapeake Bay. The goal of the study was to provide baseline data on the attitudes, behaviors and opinions of the residents about pollution, water quality, funding, and clean-up efforts for the Bay and its tributaries. Therefore, the data represents both the entire Chesapeake Bay watershed and the individual jurisdictions. The survey was conducted from October 6, 1993 through January 27, 1994 and 2,004 respondents were interviewed. The margin of error for the overall data is between 2 and 3 percent.

Keywords: *Chesapeake Bay, *Public opinion, *Attitude surveys, *Watersheds, *Water pollution, Baseline measurements, Water quality, Remedial action, Human behavior, Virginia, Pennsylvania, Maryland, District of Columbia, Questionnaires, Cleanup operations.

PB94-188612/REB PC **A14**/MF **A03**
Secondary Lead Smelting Background Information Document for Proposed Standards. Volume 2. Appendices. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jun 94, 321p EPA/453/R-94/024B
See also Volume 1, PB94-187556.

Under the authority of the 1990 Clean Air Act Amendments, a national emission standard for hazardous air pollutants (NESHAP) is proposed to control emissions from secondary lead smelters. The document contains the appendices for the background information on hazardous air pollutant emissions (HAP) from secondary lead smelters contained in EPA-453/R-94-024a (PB94-187556).

Keywords: *Air pollution control, *Smelters, *Secondary materials industry, Lead(Metal), Metal industry, Environmental impacts, Emission factors, Air pollution standards, Standards compliance, Pollution regulations, Air pollution sources, Requirements, Cost analysis, Air pollution economics, Market analysis, Economic impact, Lead smelting, NESHAP(National Emission Standard for Hazardous Air Pollutants).

PB94-188620/REB PC **A10**/MF **A03**
Environmental Protection Agency, Washington, DC. Office of Water.
Symposium on Ecological Restoration: Proceedings of a Conference. Held in Chicago, Illinois on March 2-4, 1993. Final rept.
Terrene Inst., Inc., Washington, DC.
May 94, 221p EPA/841/B-94/003
Grant EPA-CX-820957
See also PB94-118254. Sponsored by Environmental Protection Agency, Washington, DC. Office of Water.

Contents:
- Ecological Restoration and Protection: Issues and Opportunities;
- The Status of Restoration Science;
- Decisionmaking and Priority Setting;
- Using Existing Authorities More Effectively;
- Policy and Management Approaches for Restoration;
- Development and Use of Technical Tools;
- Measuring Success;
- Restoration Through Partnerships in Northwest Indiana;
- Incentives for Restoration;
- Emerging Issues in Restoration;
- and Recommendations for Action.

Keywords: *Environment management, *Water pollution control, *Land pollution control, *Ecology, Ecosystems, Natural resources management, Environmental issues, Environmental policy, Environmental quality, Great Lakes, Conservation, Restoration, Policy making, Regulations, Case studies, Meetings.

PB94-188786/REB PC **A03**/MF **A01**
Chesapeake Bay Basin Toxics Loading and Release Inventory: Technical Update - Point Source Loads by Facility.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Apr 94, 33p CBP/TRS-114/94
See also PB94-163011.

This first technical update to the Chesapeake Bay Basin Toxics Loading and Release Inventory responds to the Chesapeake Executive Council Directive to develop an initial baseline inventory of toxics loading and release sources by facility (Chesapeake Executive Council, 1993). It replaces Appendix Table 11 in the 'Chesapeake Bay Basin Toxics Loading and Release Inventory' (Chesapeake Bay Program, 1994) by providing an expanded listing of chemical load estimates at the facility level. Consequently, the technical update summarizes the new and expanded point source loading information and provides replacements originally published in the 'Chesapeake Bay Basin Toxics Loading and Release Inventory.' Future technical updates will be published as additional and relevant information becomes available on the various sources of chemical contaminant loadings and releases within the Chesapeake Bay watershed. Technical updates describing more recent estimates for fall line loadings, urban/suburban stormwater, and 1992 industry-reported releases to air, water and land are planned to be published over the next year.

Keywords: *Water pollution abatement, *Chesapeake Bay Basin, *Toxic substances, *Inventories, *Point sources, Revisions, Study estimates, Chemical compounds, Metals, State government, Urban areas, Storm water runoff, Municipalities, Concentration(Composition), Facilities, Tables(Data), Discharge, Sewage disposal, *Loading, National Pollutant Discharge Elimination System.

PB94-188802/REB PC **A06**/MF **A02**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Abundance and Viability of Striped Bass Eggs Spawned in the Roanoke River, North Carolina, in 1991. Final rept.
East Carolina Univ., Greenville, NC. Inst. for Coastal and Marine Resources.
R. A. Rulifson. May 93, 9p ICMR-93-01, APES-93-04
See also PB94-156544. Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study. and Environmental Protection Agency, Washington, DC.

Striped bass spawning activity in the Roanoke River, North Carolina, was documented in 1991 by sampling for eggs at Barnhill's Landing (River Mile 117), which is just downstream of the spawning grounds between the towns of Halifax (RM 120) and Weldon (RM 130). Egg sampling was conducted every four hours near the surface and bottom from 15 April to 14 June. Water quality and changes in instream flow caused by water releases from Roanoke Rapids Reservoir at RM 137 also were monitored every four hours. Results were compared to similar studies funded by the Albemarle-Pamlico Estuarine Study during the springs of 1988, 1989, and 1990. Objectives were: (1) to continue the uninterrupted egg study data base of W.W. Hassler beginning in 1959; (2) to identify potential sources of bias in Hassler's egg production estimates; and (3) relate striped bass spawning activity to operation of the Roanoke Rapids hydroelectric dam upstream.

Keywords: *Abundance, *Roanoke River, *Natural resources management, *Spawning, *Eggs, North Carolina, Tables(Data), Water quality, Seasonal variations, Sampling, Water flow, Temperature, *Striped bass, *Egg viability, Albemarle-Pamlico Estuarine Study.

PB94-188851/REB PC **A09**/MF **A03**
Reregistration Eligibility Document (RED): Glyphosate. Appendix A. Use Patterns Subject to Reregistration.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
Sep 93, 195p EPA/738/R-94/015
Portions of this document are not fully legible. See also PB87-103214 and PB94-127914.

The Reregistration Eligibility Document (or RED) discusses the scientific data and other information sup-

porting EPA's regulatory conclusion that products containing a pesticide do not pose unreasonable risks when used as directed by Agency-approved labeling, and are eligible for reregistration.

Keywords: *Pesticides, *Glycine, Sodium salts, Herbicides, Plant growth regulators, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Glyphosate, *Isopropylamine salt, *Reregistration, *Use patterns, *CAS 38641-94-0.

PB94-188885/REB PC **A03/MF A01**
Chesapeake Bay Attitudes Survey, Appendices: Washington, DC. Frequencies.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
May 94, 31p
See also PB94-187937 and PB94-188448.

The Survey Research Center at the University of Maryland at College Park conducted a survey of residents of counties in the watershed of the Chesapeake Bay. The goal of the study, which is discussed in PB94-188448, was to provide baseline data on the attitudes, behavior, and opinions of the residents about pollution, water quality, funding, and clean-up efforts. This volume contains the appendices of Washington, D.C. frequencies.

Keywords: *Chesapeake Bay, *Attitude surveys, *Water pollution, *Public opinion, *Watersheds, Water quality, Remedial action, Tables(Data), District of Columbia, Cleanup operations.

PB94-188927/REB PC **A03/MF A01**
Chesapeake Bay Attitudes Survey, Appendices: Maryland Frequencies.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
May 94, 33p
See also PB94-188448 and PB94-188885.

The Survey Research Center at the University of Maryland at College Park conducted a survey of residents of counties in the watershed of the Chesapeake Bay. The goal of the study, which is discussed in PB94-188448, was to provide baseline data on the attitudes, behavior, and opinions of the residents about pollution, water quality, funding, and clean-up efforts. This volume contains the appendices of Maryland frequencies.

Keywords: *Chesapeake Bay, *Attitude surveys, *Water pollution, *Public opinion, *Watersheds, Maryland, Water quality, Remedial action, Tables(Data), Cleanup operations.

PB94-188935/REB PC **A03/MF A01**
Chesapeake Bay Attitudes Survey, Appendices: Pennsylvania Frequencies.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
May 94, 34p
See also PB94-188448 and PB94-188927.

The Survey Research Center at the University of Maryland at College Park conducted a survey of residents of counties in the watershed of the Chesapeake Bay. The goal of the study, which is discussed in PB94-188448, was to provide baseline data on the attitudes, behavior, and opinions of the residents about pollution, water quality, funding, and clean-up efforts. This volume contains the appendices of Pennsylvania frequencies.

Keywords: *Chesapeake Bay, *Attitude surveys, *Water pollution, *Public opinion, *Watersheds, Pennsylvania, Water quality, Remedial action, Tables(Data), Cleanup operations.

PB94-189255/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Guidance on Preparing Enforceable Regulations and Compliance Programs for the 15 Percent Rate-of-Progress Plans. Final rept.
Pechan (E.H.) and Associates, Inc., Durham, NC.
A. Bollman, K. Brust, and R. Strait. Jun 93, 38p EPA/452/R-93/005
Contract EPA-68-D0-0120
See also PB92-132844, PB93-122356, PB93-186476 and PB93-200525. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The purpose of this document is to provide States with guidance on how to prepare enforceable stationary and mobile source regulations for their rate-of-progress plans. The document identifies the minimum criteria and the information sources that the U.S. Environmental Protection Agency (EPA) will use to evaluate the enforceability of regulations, and to determine compliance with Federal guidelines and regulations. States should follow the guidelines provided in this document as part of their quality assurance process involved in the development of control measures for their rate-of-progress plans.

Keywords: *Air pollution control, *Pollution regulations, *Guidelines, Air pollution standards, Standards compliance, Requirements, Law enforcement, Air pollution abatement, Air pollution sources, Ozone, Carbon monoxide, Specifications, Criteria, Clean Air Act, State government, State implementation plans.

PB94-189263/REB PC **A03/MF A01**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Evaluation of Trawl Excluder Devices in the Pamlico Sound Shrimp Fishery. Final rept.
Mariners Marine, Inc., Raleigh, NC.
K. B. Pearce, D. W. Moye, and S. K. Strasser. Feb 89, 54p APES-88-07
Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study. and Environmental Protection Agency, Washington, DC.

Four different devices were tested in the Pamlico Sound shrimp trawl fishery during October-November 1987 to determine their ability to reduce finfish bycatch while retaining shrimp. Testing was conducted aboard a local shrimp vessel using a randomized incomplete block design, including a control net. The four devices were (1) Scottish Separator Trawl (SST), (2) Florida Fish Excluder (FFE), (3) Georgia TED, and (4) Parrish TED. The SST appeared to separate flounder from non-demersal fishes, but lost shrimp. The Parrish TED caught less fish and shrimp than the control net. The Georgia TED and the FFE both had reduced bycatches of finfish and no significant difference in shrimp catch relative to the control net. Both of these gears deserve further testing in North Carolina. Because of its smaller size and ease of installation, the FFE is recommended over the Georgia TED at this time as a device for reducing finfish bycatch in the Pamlico Sound shrimp trawl fishery.

Keywords: *Pamlico Sound, *Fisheries, *Shrimps, *Fishing gear, *Trawling, North Carolina, Commercial fishing, Fish handling facilities, Fishes, Performance evaluation, Design criteria, Calibrating, Atlantic Ocean, Scottish Separator Trawl, Florida Fish Excluder, Georgia TED Device, Parrish TED Device.

PB94-189420/REB PC **A16/MF A03**
Environmental Research Lab., Athens, GA.
Assessment of Alternative Management Practices and Policies Affecting Soil Carbon in Agroecosystems of the Central United States.
AQUA TERRA Consultants, Mountain View, CA.
A. S. Donigian, T. O. Barnwell, R. B. Jackson, A. S. Patwardhan, and K. B. Weinrich. Apr 94, 359p EPA/600/R-94/067
Contract EPA-68-CO-0019
Prepared in cooperation with Computer Sciences Corp., Athens, GA. and Colorado State Univ., Fort Collins. Natural Resource Ecology Lab. Sponsored by Environmental Research Lab., Athens, GA.

The goal of the U.S. EPA BIOME Agroecosystems Assessment Project is to evaluate the degree to which agroecosystems can be technically managed, on a sustainable basis, to conserve and sequester carbon, reduce the accumulation of carbon dioxide in the atmosphere, and provide reference datasets and methodologies for agricultural assessment. The report provides preliminary estimates of carbon sequestration potential for the central United States including the Corn Belt, the Great Lakes, and portions of the Great Plains. This study region comprises 44% of the land area and 60% to 70% of the agricultural cropland of the conterminous United States. The assessment methodology includes the integration of the RAMS economic model, the Century soil carbon model, meteorologic and soils data bases, and GIS display and analysis capabilities in order to assess the impacts on soil carbon of current agricultural trends and conditions, alternative tillage practices, use of cover crops, and Conservation Reserve Program policy.

Keywords: *Climatic changes, *Soil properties, *Carbon, *Organic matter, *Farm management, Emissions, Ecosystems, Mathematical models, Economic model, Conservation, Reduction, Carbon dioxide, Land use, Farm crops, Cultivation, Yield, Regions, United States, Trends, Tables(Data).

PB94-189438/REB PC **A05/MF A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
CAV-OX (Trade Name) Cavitation Oxidation Process Magnum Water Technology, Inc. Applications Analysis Report. Rept. for Nov 92-Nov 93.
PRC Environmental Management, Inc., Cincinnati, OH.
G. L. Stacy. May 94, 85p EPA/540/AR-93/520
Contract EPA-68-CO-0047
Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The CAV-OX process was developed by magnum Water Technology to destroy organic contaminants in water. The process uses hydrodynamic cavitation, ultraviolet (UV) radiation, and hydrogen peroxide to oxidize organic compounds present in water at or below milligrams per liter levels. This treatment technology produces no air emissions and generated no sludge or spent media that requires further processing, handling, or disposal. Ideally, the end products are water, carbon dioxide, halides, and in some cases, organic acids. The process uses mercury vapor lamps to generate UV radiation. The principal oxidants in the process, hydroxyl radicals, are produced by hydrodynamic cavitation and direct photolysis of hydrogen peroxide at UV wavelengths.

Keywords: *Water pollution control, *Cavitation, *Oxidation, *Superfund, Remedial action, Technology utilization, Waste water treatment, Industrial wastes, Hazardous materials, Organic compounds, Ultraviolet radiation, Hydrogen peroxide, Economic analysis, Case studies, VOCs(Volatile organic compounds), BTEX(Benzene toluene ethylbenzene and xylene).

PB94-189446/REB PC **A04/MF A01**
Environmental Monitoring Systems Lab., Las Vegas, NV.
Landscape Monitoring and Assessment Research Plan.
Oak Ridge National Lab., TN.
R. V. O'Neill, K. B. Jones, K. H. Riitters, J. D. Wickham, and I. A. Goodman. Mar 94, 62p EPA/620/R-94/009
Contract EPA-R-816385-01-0
Prepared in cooperation with Tennessee Valley Authority, Norris. and Nevada Univ. System, Reno. Desert Research Inst. Sponsored by Environmental Monitoring Systems Lab., Las Vegas, NV.

Landscape ecology is the study of the structure, function, pattern, and changes in heterogeneous land areas. The Environmental Monitoring and Assessment Program's Landscapes component (EMAP-L) will focus on those landscape patterns that affect flows of energy, water, nutrients, and biota. The primary focus will be on the societal benefits derived from watershed integrity, biotic integrity and diversity, and landscape stability and resilience. The Plan is divided into five sections which describe: (1) the theoretical basis (landscape ecology) for monitoring landscapes and how this relates to and complements the objectives of EMAP; (2) the conceptual basis of the approach, including the societal values and assessment questions to be addressed; (3) the indicators of landscape condition; (4) the methods for monitoring and assessing the status and trends of landscape condition; and (5) the research and development activities needed to implement the plan.

Keywords: *Environment management, *Land use, *Ecology, Environmental monitoring, Environmental quality, Natural resources management, Ecosystems, Biological diversity, Watersheds, Landscapes, Landscaping, Models, Environmental Monitoring and Assessment Program, Landscape management, Sustainability.

PB94-189453/REB PC **A10**/MF **A03**
Environmental Protection Agency, Cincinnati, OH. Environmental Criteria and Assessment Office.
Public Health, Occupational Safety, and Environmental Concerns in Municipal Solid Waste Recycling Operations.
TRC, Lowell, MA.
E. Brady-Roberts, A. Hargens, A. Levin, and D. Fratt. Dec 93, 209p EPA/600/R-93/122, , ECAO-CIN-836
Contract EPA-68-090173
Sponsored by Environmental Protection Agency, Cincinnati, OH. Environmental Criteria and Assessment Office.

The United States faces the challenge of effectively managing municipal solid waste (MSW) as the amount of waste generated per capita increases. The purpose of this document is not to compare recycling with other MSW methods but to provide a general overview of possible hazards associated with this practice. This report identifies the possible public health, occupational, and environmental hazards associated with MSW recycling. The report identifies activities that might present hazards to health or the environment. Such a risk assessment requires further study, particularly quantitative data on exposure. The scope of the document is thus limited, in line with an intent to survey for potential hazards and identify need for further work.

Keywords: *Waste recycling centers, *Solid waste disposal, *Public health, *Occupational safety and health, Solid waste collection centers, Solid waste management, Materials recovery, Municipal wastes, Collection systems, Sorting, Public safety, Hazards, Risk assessment, Environmental impacts, Mitigation, Regulations, Best management practices.

PB94-189487/REB PC **A11**/MF **A03**
Hydrocarbon Spill Screening Model (HSSM). Volume 1. User's Guide. Research rept.
Robert S. Kerr Environmental Research Lab., Ada, OK.
J. W. Weaver, B. K. Lien, R. J. Charbeneau, J. D. Tauxe, and J. B. Provost. Apr 94, 227p EPA/600/R-94/039A
Prepared in cooperation with Texas Univ. at Austin. Dept. of Civil Engineering. and Computer Sciences Corp., Ada, OK.

This user's guide describes the Hydrocarbon Spill Screening Model (HSSM). The model is intended for simulation of subsurface releases of light nonaqueous phase liquids (LNAPLs). The model consists of separate modules for LNAPL flow through the vadose zone, spreading in the capillary fringe, and transport of chemical constituents of the LNAPL in a water table aquifer. These modules are based on simplified conceptualizations of the flow and transport phenomena which were used so that the resulting model would be a practical, though approximate, tool. Both DOS and Windows interfaces are provided to create input data sets, run the model, and graph the results. These interfaces simplify the procedures for running the model so that the model user may focus on analysis of his/her problem of interest. To that end, guidance is given for selecting parameter values and several utility programs are provided to calculate certain parameters. Typical example problems, which begin with a general problem statement, show exactly how each parameter of the model should be chosen.

Keywords: *User manuals(Computer programs), *Water pollution, *Water table, *Aquifers, *Environmental transport, Subsurface investigations, Computerized simulation, Oil pollution, Oil spills, Computer programming, Ground water, Water flow, *Hydrocarbon Spill Screening Model, *Light nonaqueous phase liquids.

PB94-189651/REB PC **A01**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Landfill Gas Energy Utilization: Technical and Non-Technical Considerations. Rept. for Sep 92-Mar 94.
Pechan (E.H.) and Associates, Inc., Durham, NC.
J. G. Pacey, M. R. J. Doorn, and S. A. Thorneloe. Mar 94, 5p EPA/600/A-94/139
Contract EPA-68-D1-0146
Presented at SWANA's Annual Landfill Gas Symposium (17th), Long Beach, CA., March 22-24, 1994. See also PB91-197061, PB92-137520, PB92-203116 and PB94-132180. Prepared in cooperation with EMCON Associates, San Jose, CA. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses technical issues associated with the use of landfill gas (LFG) compared with natural gas--which is the primary fuel used for energy conversion equipment such as internal combustion engines, gas turbines, and fuel cells. LFG is a medium-heating-value fuel containing trace constituents that require gas pretreatment and energy equipment modifications to operate successfully. There are more than 100 LFG-to-energy projects in the U.S., and their developers and operators have found different ways to minimize the potential problems associated with LFG utilization. The paper also gives an overview of developers and operators of these projects, data of European projects, non-technical issues such as project barriers and incentives, the relationship between LFG delivery and energy output, active landfill gas developers, and insights on project decision making.

Keywords: *Landfills, *Methane, *Power generation, Natural gas, Energy conversion, Energy sources, Gas fuels, Energy source development, Earth fills, Gas production, Refuse derived fuels, Resource recovery facilities, Waste disposal, Greenhouse gases, Reprints, Landfill gas.

PB94-189669/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Analysis of Emissions from Residential Natural Gas Furnaces. Rept. for Jun-Sep 93.
Acurex Environmental Corp., Research Triangle Park, NC.
J. V. Ryan, and R. C. McCrillis. Jun 94, 17p EPA/600/A-94/140
Contract EPA-68-DO-0141
Presented at Air and Waste Management Association Annual Meeting (87th), Cincinnati, OH., June 19-24, 1994. See also PB85-174928 and PB88-239223. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The report includes emissions data from residential natural-gas furnaces and compares selected data to emissions data from residential oil furnaces and woodstoves. Natural-gas furnace emissions data are given for carbon monoxide (CO), unburned hydrocarbons, aldehydes, volatile and semivolatile organic compounds (including mono- and polyaromatic hydrocarbons), total particulate, and total extractable organics. Natural-gas furnace combustion emissions were collected in a laboratory setting under simulated residential conditions and usage. The study was part of the Integrated Air Cancer Project, a multidisciplinary, cross-EPA laboratory effort to apportion sources of mutagenicity in ambient emissions. Both high and low efficiency gas furnaces were tested. The results indicate that significant levels of CO, unburned hydrocarbons, aromatic volatile organic compounds, and aldehydes can be emitted. Based on emission factors relative to thermal input, residential natural-gas emissions are at least a factor of 10 to 100 less than comparable emissions from residential oil furnaces and woodstoves.

Keywords: *Residential buildings, *Gas furnaces, *Air pollution control, Natural gas, Carbon monoxide, Hydrocarbons, Design criteria, Aldehydes, Volatile organic compounds, Particulates, Performance evaluation, Comparison, Emission factors, Oil furnaces.

PB94-189677/REB PC **A01**/MF **A01**
Importance of Life Cycle Assessment.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
J. S. Bridges. 16 Jun 94, 5p EPA/600/A-94/141
Pub. in Proceedings of the International Wastes Management Conference, Torbay, UK., June 16, 1994, p56-58. See also PB93-139681 and PB93-164507.

The paper presents Life Cycle Assessment (LCA) as a tool to assist the waste professional with integrated waste management. LCA can be the connection between the waste professional and designer/producer to permit the waste professional to encourage the design of products so material recovery is most efficient and markets can be better predicted. The waste professional can better monitor the involvement of the consumer in waste management by using LCA and looking upstream at how the consumer actually reacts to products and packaging. LCA can also help the waste professional better understand the waste stream.

Keywords: *Service life, *Waste management, Materials recovery, Waste recycling, Waste streams, Life-cycle cost, Life(Durability), Pollution abatement, Environmental impacts, Environment protection, Cost analysis, Economic analysis, Reprints, *Life-cycle assessment, Life-cycle design, Environmental requirements, Waste reduction, Waste minimization, Consumers.

PB94-189685/REB PC **A02**/MF **A01**
MOUSE Uncertainty Analysis System.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
A. J. Klee. 20 Jun 94, 7p EPA/600/A-94/142
Pub. in American Society of Civil Engineers First Congress on Computing in Civil Engineering, Washington, D.C., June 20, 1994, p372-379. See also PB93-157998 and PB93-500007.

MOUSE (Modular Oriented Uncertainty SystEm) is a Monte Carlo based simulation system designed to deal with the problem of uncertainties in Environmental engineering calculations, such as a set of engineering cost or risk analysis equations. It was especially intended for use by individuals with little or no knowledge on computer languages, programming, or simulation. However, it is also of benefit to those experienced in simulation and simulation languages who desire a quick and easy method to produce standard Monte Carlo simulation output. MOUSE system utilities run on MS-DOS-based personal computers, but MOUSE programs themselves can be run on any computer equipped with a FORTRAN compiler. It is easy and fast to learn and has all of the features needed for substantive uncertainty analysis, such as built-in probability distributions, plotting and graphing capabilities, sensitivity analysis, and interest functions for cost analyses.

Keywords: *Environmental engineering, *Computerized simulation, Risk assessment, Cost analysis, Computerized simulation, Monte Carlo method, Probability distribution functions, Mathematical models, Reprints, *Uncertainty analysis, MOUSE(Modular Oriented Uncertainty SystEm), AutoMOUSE system.

PB94-189693/REB PC **A03**/MF **A01**
Robert S. Kerr Environmental Research Lab., Ada, OK.
Two-Dimensional Modeling of Aquifer Remediation Influenced by Sorption Nonequilibrium and Hydraulic Conductivity Heterogeneity. Journal article.
State Univ. of New York at Buffalo. Dept. of Civil Engineering.
A. J. Rabideau, and C. T. Miller. c1994, 15p EPA/600/J-94/303
Grant EPA-R-818647
Pub. in Water Resources Research, v30 n5 p1457-1470 May 94. Prepared in cooperation with North Carolina Univ. at Chapel Hill. Dept. of Environmental Sciences and Engineering. Sponsored by Robert S. Kerr Environmental Research Lab., Ada, OK.

A computational model was developed to simulate aquifer remediation by pump and treat for a confined, perfectly stratified aquifer. A split-operator finite element numerical technique was utilized to incorporate flow field heterogeneity and nonequilibrium sorption into a two-dimensional, radially symmetric advective-dispersive transport model. Simulations reproduced the tailing behavior commonly observed at remedial sites. Predicted remediation times were observed to increase as the degree of hydraulic conductivity heterogeneity and/or sorption nonequilibrium increased. Dimensional analysis was used to facilitate the general application of simulation results to a range of aquifer/contaminant systems. The effects of sorption nonlinearity, sorption capacity heterogeneity, and intermittent pumping were also analyzed. (Copyright (c) 1994 by the American Geophysical Union.)

Keywords: *Computerized simulation, *Aquifers, *Remedial action, *Water pollution control, Hydraulic conductivity, Alternatives, Performance evaluation, Sorption, Finite element analysis, Two-dimensional calculations, Feasibility studies, Heterogeneity, Reprints, *Pump and treat systems, Cleanup operations.

PB94-189701/REB PC **A03/MF A01**
Effect of Temperature and Pore Size on the Hydraulic Properties and Flow of a Hydrocarbon Oil in the Subsurface. Journal article.
Robert S. Kerr Environmental Research Lab., Ada, OK.
E. L. Davis. c10 Jan 94, 33p EPA/600/J-94/304
Pub. in Jnl. of Contaminant Hydrology 16, p55-86 1994. See also PB92-119668.

Capillary pressure relationships in a porous medium determine the distribution of immiscible fluids under static conditions and can largely influence the movement of the fluids when the system is not at equilibrium. The capillary pressure-saturation curves measured here for hydrocarbon oil-water do not have a constant capillary pressure ratio with saturation when compared to the water-air system, and changes in ratio were found when comparing the water-air curves measured at different temperatures. Thus, the scaling theory based on interfacial tensions and contact angles does not adequately account for differences in capillary pressures due to different fluid pairs or temperatures. When the capillary pressure-saturation relationship is extended to the calculation of relative permeabilities and the prediction of fluid flow in the subsurface, the differences in measured and scaled capillary pressure curves lead to differences in the predicted flow rates and saturations of the immiscible fluids in the subsurface. Thus, care must be used when applying capillary pressure-saturation data from one fluid system to that of another, or when applying it to different conditions.

Keywords: *Oils, *Hydraulic properties, *Pore pressure, *Temperature, Reprints, Oil-water interfaces, Capillary action, Fluid mechanics, Ratios, Wetting, Saturation, Subsurface flow, Two phase flow, Moisture content, Hydrocarbon oil, Capillary pressure-saturation curves.

PB94-190329/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Bench-Scale Investigation of Mechanisms of Elemental Mercury Capture by Activated Carbon. Rept. for Oct 91-Apr 93.
Acurex Environmental Corp., Research Triangle Park, NC.
W. Jozewicz, S. V. Krishnan, and B. K. Gullett. Jul 93, 20p EPA/600/A-94/132
Contract EPA-68-DO-0141
Presented at the International Conference on Managing Hazardous Air Pollutants (2nd), Washington, DC., July 13-15, 1993. See also DE91527217. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives results of an investigation of the sorption and desorption of gaseous elemental mercury by activated carbon sorbents. Two sorbents were chosen for the study, one (PC-100) thermally activated and the other (HGR) chemically impregnated with sulfur. The sorbents had similar particle size (approximately 20 micrometers) and surface area (approximately 1000 sq m/g). Different reaction conditions of temmperature--23 C (or ambient) and 140 C--and mercury concentration (30 and 60 ppb in nitrogen) were used. The type of activated carbon, the temperature, and the mercury concentration showed strong effects on overall sorption behavior. At 140 C, chemisorption was found to be the only mechanism for elemental mercury capture for both sorbents.

Keywords: *Mercury(Metal), *Air pollution control, *Activated carbon, Chemical reactions, Sorption, Sorbents, Stationary sources, Flue gases, Toxic hazards, Desorption, Chemisorption, Comparative evaluation, Coal combustion, Municipal wastes, Combustion chambers, Reprints.

PB94-190337/REB PC **A03/MF A01**
EPA's New Clean Air Technologies and Opportunities for Cooperative Development. Rept. for Dec 86-Sep 93.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
C. B. Sedman, B. K. Gullett, W. P. Linak, and N. Plaks. Oct 93, 28p EPA/600/A-94/133
Presented at the Conference on Environmental Commerce (CONEC '93), Chattanooga, TN, October 17-20, 1993. See also PB91-233627, PB92-174689 and PB93-124170.

The paper discusses the EPA's new clean air technologies and opportunities for cooperative development. New clean air technologies for commercial application have recently been developed and patented by EPA/AEERL. These include: (1) furnace sorbent injection for dioxin/furan control (SICORE), (2) combined sulfur dioxide (SO2) and particulate matter (PM) control (E-SOx), (3) advanced silicate injection for SO2 control (ADVACATE), and (4) advanced fine PM controls--advanced electrostatic precipitation (SUPER ESP), electrostatically stimulated fabric filtration (ESFF), retrofit electrostatic filtration (REF), and reentrainment suppressor. New areas of research are also discussed for which EPA/AEERL would be interested in a CRD program, including combined sulfur oxide (SOx)/nitrogen oxide (NOx) control, toxic metals control, chlorinated waste destruction, and fine PM control.

Keywords: *Technology innovation, *Air pollution control equipment, *US EPA, Sulfur oxides, Nitrogen oxides, Metals, Particulates, Dioxins, Furans, Flue gases, Pilot plants, Sorbent injection processes, Activated carbon, Selective catalytic reduction, Electrostatic precipitators, Filters, Filtration, Catalysts, Reprints.

PB94-190345/REB PC **A03/MF A01**
Application of Pharmacokinetic Models to Predict Target Dose (Chapter 2). Book chapter.
Environmental Monitoring Systems Lab., Las Vegas, NV.
J. N. Blancato, and K. B. Bishoff. 1994, 20p EPA/600/A-94/134
Pub. in Health Risk Assessment, Dermatology: Clinical and Basic Science, Chapter 2, p31-46. Prepared in cooperation with Delaware Univ., Newark.

The number of new and old chemical compounds to which the human race is exposed has quickly become astronomical. Methods of risk assessment have been slow to develop. Industry, government and academia have had to scrupulously examine the benefits-to-cost ratio of these studies. The limiting factors appear to be the questions of extrapolation and the compatibility of different metabolic processes in different species. The chapter discusses (1) pharmacokinetics, (2) model development, (3) flow-limited assumptions, (4) membrane-limited assumption, (5) micropharmacokinetic physiologic models and their implementation.

Keywords: *Pharmacokinetics, *Models, *Risk assessment, *Public health, Pharmacology, Dosage, Health risks, Physiology, Chemical compounds, Flow distribution, Metabolism, Toxicity, Research and development, Membranes, Environmental monitoring, Reprints, Micropharmacokinetic models.

PB94-190352/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Effect of Sulfur in Reducing PCDD/PCDF Formation.
Acurex Environmental Corp., Research Triangle Park, NC.
K. Raghunathan, and B. K. Gullett. May 94, 12p EPA/600/A-94/135
Contract EPA-68-DO-0141
Presented at the International Incineration Conference (13th), Houston, TX., May 9-14, 1994. See also PB88-239223. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The report gives results of research to determine if the co-firing of coal with municipal solid waste (MSW) will decrease the downstream formation of chlorinated organic compounds, particularly polychlorinated dibenzo-p-dioxins and furans (PCDDs and PCDFs). Previous research had suggested that sulfur present in coal can interfere in PCDD/PCDF formation mechanisms. To test this hypothesis, both bench- and pilot-scale experiments simulating MSW incineration were carried out. Tests were conducted with a MSW fly ash in EPA's pilot-scale Innovative Furnace Reactor (IFR) and a bench-scale Short Time Differential Reactor (STDR). The IFR tests involved either natural gas or coal combustion, with MSW fly ash being injected into the post-combustion region of the furnace.

Keywords: *Pollution abatement, *Sulfur, *Solid waste disposal, Municipal wastes, Incinerators, Chlorine, Dioxin, Pilot plants, Stationary sources, Coal, Natural gas, Fly ash, Furans, Chlorohydrocarbons, Combustion, Reprints, *PCDD, *PCDF, Municipal solid waste disposal.

PB94-190360/REB PC **A03/MF A01**
Defining Biological Status by Comparing with Reference Conditions (Chapter 4). Book chapter.
Corvallis Environmental Research Lab., OR.
R. M. Hughes. 1994, 49p EPA/600/A-94/136
Pub. in Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making, Chapter 4, 1994. See also PB93-156008. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR. Environmental Research Lab.

The goal of EPA's biocriteria and Environmental Monitoring and Assessment Program for Surface Waters (EMAP-SW) programs to embrace similar empirical standards and comparative processes for determining reference conditions would encourage the United States to evolve a more environmentally protective, defensible, and consistent monitoring and regulatory network. The goals of this chapter are to (1) explain the purpose and objectives of determining a reference condition for populations of aquatic ecosystems, (2) examine six approaches for determining a reference condition, (3) describe the process for selecting regional reference sites, and (4) propose a way to determine acceptable quantitative scores from reference condition data.

Keywords: *Biological effects, *Water quality, *Criteria, *Water pollution abatement, *Environmental monitoring, Site surveys, Standards, Aquatic ecosystems, Regional analysis, Baseline measurements, Environmental protection, Environmental impact assessments, Reprints, *Reference condition, Environmental Monitoring and Assessment Program.

PB94-190378/REB PC **A03/MF A01**
Guidance for Assessing the Effects of Contaminants to Juvenile Gallinaceous Birds Using a Cross-Fostered Brood Method. Technical rept.
Corvallis Environmental Research Lab., OR.
A. C. Matz, R. S. Bennett, and W. G. Landis. 1994, 20p EPA/600/R-94-083
See also PB83-153908 and PB89-124580. Prepared in cooperation with Huxley Coll. of Environmental Studies, Bellingham, WA.

The report describes a method for assessing the exposure and effects of environmental contaminants on gallinaceous chicks imprinted on bantam chicken (Gallus domesticus) hens. The method may be applicable for assessing the effects of many contaminants to which young, foraging gallinaceous chicks may be exposed, including agricultural chemicals and hazardous waste site contaminants. The method also may be used with a variety of habitats, experimental designs, and statistical analyses. The experimental design and types of measurement endpoints selected depends upon the purposes and the environmental conditions of the study. The report is based on methods developed during three field studies with organophosphorus pesticides in which the procedure was used successfully for comparing results to results from laboratory tests. It is recognized that many procedural modifications may be necessary to adapt to different experimental designs and that many improvements in the procedures are possible. The report does not establish Agency policy for conducting avian field studies, however, it does present a method for consideration for assessing the exposure and/or the direct and indirect effects of environmental contaminants to free-ranging gallinaceous chicks.

Keywords: *Biological effects, *Risk assessment, *Habitats, *Environmental effects, Guidelines, Exposure, Pesticides, Agricultural chemicals, Hazardous wastes, Birds, Wildlife, Field tests, Experimental design, Statistical analysis, Toxicity, *Cross-fostered brood method, *Gallinaceous birds.

PB94-190469/REB PC **A03/MF A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Engineering Bulletin: In Situ Biodegradation Treatment.
Science Applications International Corp., Cincinnati, OH.
Apr 94, 17p EPA/540/S-94/502
Contract EPA-68-CO-0048

Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

In situ biodegradation may be used to treat low-to-intermediate concentrations of organic contaminants in place without disturbing or displacing the contaminated media. Although this technology has been used to degrade a limited number of inorganics, specifically cyanide and nitrate, in situ biodegradation is not generally employed to degrade inorganics or to treat media contaminated with heavy metals. During in situ biodegradation, electron acceptors (e.g., oxygen and nitrate), nutrients, and other amendments may be introduced into the soil and groundwater to encourage the growth of an indigenous population capable of degrading the contaminants of concern. This bulletin provides information on the technology's applicability, the types of residuals produced, the latest performance data, the site requirements, the status of the technology, and sources for further information.

Keywords: *In-situ processing, *Biodeterioration, *Land pollution control, *Water pollution control, *Decontamination, Ground water, Soil treatment, Hazardous materials, Waste disposal, Remedial action, Microorganisms, Superfund, Underground storage, Storage tanks, Cleanup operations, Resource Conservation and Recovery Act, Toxic Substances Control Act.

PB94-190477/REB PC **A03**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Engineering Bulletin: Solvent Extraction.
Science Applications International Corp., Cincinnati, OH.
Apr 94, 11p EPA/540/S-94/503
Contract EPA-68-CO-0048
Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Solvent extraction does not destroy hazardous contaminants, but is a means of separating those contaminants from soils, sludges, and sediments, thereby reducing the volume of the hazardous material that must be treated. Generally, it is used as one in a series of unit operations and can reduce the overall cost for managing a particular site. This bulletin provides information on the technology applicability, the types of residuals produced, the latest performance data, site requirements, the status of the technology, and sources for further information.

Keywords: *Solvent extraction, *Hazardous materials, *Waste treatment, *Remedial action, *Materials recovery, *Soil treatment, Superfund, Land management, Waste management, Land pollution control, Sludge treatment, Sediments, Technology utilization, Performance evaluation, Organic compounds.

PB94-190485/REB PC **A02**/MF **A01**
Environmental Research Lab., Athens, GA. Office of Research and Development.
Sequential Anaerobic Degradation of 2,4-Dichlorophenol in Freshwater Sediments. Journal article.
Georgia Univ., Athens.
X. Zhang, and J. Wiegel. cApr 90, 10p EPA/600/J-94/294
Contract DE-FG09-86ER-13614, Grant EPA-R-812638
Pub. in Applied and Environmental Microbiology, v56 n4 p1119-1127 Apr 90. Sponsored by Environmental Research Lab., Athens, GA. Office of Research and Development. and Department of Energy, Washington, DC.

2,4-Dichlorophenol (2,4-DCP) was degraded anaerobically in freshwater lake sediments. From observed intermediates in incubated sediment samples and from enrichment cultures, the following sequence of transformations was postulated. 2,4-DCP is dechlorinated to 4-chlorophenol (4-CP), 4-CP is dechlorinated to phenol, phenol is carboxylated to benzoate, and benzoate is degraded via acetate to methane and carbon carbon dioxide. At least five different organisms are involved sequentially. The rate-limiting step was the transformation of 4-CP to phenol. Sediment-free enrichment cultures were obtained that catalyzed only the dechlorination of 2,4-DCP, the carboxylation of phenols, and the degradation of benzoate, respectively.

Keywords: *Anaerobic bacteria, *Chlorohydrocarbons, *Water pollution, *Biodegradation, Freshwater, Sediments, Aquatic bacteria, Phenols, Halohydrocarbons, Dehalogenation, Reprints, *2-4-DCP(2-4-Dichlorophenol), *Phenols/2-4-Dichloro.

PB94-190493/REB PC **A01**/MF **A01**
Environmental Research Lab., Athens, GA. Office of Research and Development.
Pitfalls of Sequential Extraction. Journal article.
Massachusetts Inst. of Tech., Cambridge. Ralph M. Parsons Lab.
P. M. V. Nirel, and F. M. M. Morel. c1994, 3p EPA/600/J-94/295
Pub. in Water Research, v24 n8 p1055-1056 1990. Sponsored by Environmental Research Lab., Athens, GA. Office of Research and Development.

Sequential extraction procedures consist of subjecting a given sediment sample to a series of increasingly strong reagents under specified conditions. The most carefully designed and most often followed method is that of Tessier et al. (1979). These procedures, which were conceived as an attempt to determine the particulate speciation of trade elements and radionuclides, have serious limitations. Despite several studies demonstrating the instability of published methods for sequential extraction to determine chemical entities definable by more than the analytical method itself. The purpose of the comment is to discourage the expanding uncritical use of sequential extractions for measuring the particulate speciation of trade elements. (Copyright (c) 1990 Pergamon Press plc.)

Keywords: *Sediments, *Trace elements, *Extraction, *Radioisotopes, *Environmental surveys, Validation, Geochemistry, Performance evaluation, Materials recovery, Adsorption, Water resources, Reprints, *Sequential extraction.

PB94-190501/REB PC **A02**/MF **A01**
Environmental Research Lab., Athens, GA. Office of Research and Development.
Isolation of Dissolved Organic Matter from the Suwannee River Using Reverse Osmosis. Journal article.
Georgia Inst. of Tech., Atlanta. School of Earth and Atmospheric Sciences.
S. M. Serkiz, and E. M. Perdue. c1994, 7p EPA/600/J-94/296
Grant EPA-R-813471
Pub. in Water Research, v24 n7 p911-916 1990. Sponsored by Environmental Research Lab., Athens, GA. Office of Research and Development.

A portable reverse osmosis (RO) system was constructed and used to concentrate dissolved organic matter (DOM) from the Suwannee River in southeastern Georgia. Using this RO system, 150-180 l/h of river water could be processed with 90% recovery of DOM. After further cation exchange and lyophilization of the concentrated river water samples, large quantities of low-ash freeze-dried products were isolated. The authors highly recommend this RO method for concentration of DOM in fresh waters because (1) a very high percentage of DOM is recovered, which indicates minimal fractionation of the original sample, and (2) the process is quite rapid, which permits large quantities of DOM to be concentrated in a reasonable length of time.

Keywords: *Osmosis, *Organic matter, *Suwannee River, *Water pollution control, Reprints, Water analysis, Portable equipment, Humic acids, Dissolved solids, Freshwater, Georgia, Environmental engineering, *RO(Reverse osmosis), *Reverse osmosis, *DOM(Dissolved organic matter), *Dissolved organic matter.

PB94-190519/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Emissions of Organic Hazardous Air Pollutants from the Combustion of Pulverized Coal in a Small-Scale Combustor. Journal article Oct 92-Mar 93.
Acurex Environmental Corp., Research Triangle Park, NC.
C. A. Miller, R. K. Srivastava, and J. V. Ryan. c1994, 12p EPA/600/J-94/297
Contract EPA-68-DO-0141
Pub. in Environmental Science and Technology 28, n6 p1150-1158 Jun 94. Also pub. as Acurex Environmental Corp., Research Triangle Park, NC. rept. no. REPT-8421.325. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The article gives results of a characterization of emissions of 76 organic hazardous air pollutants (HAPs) in flue gases from the combustion of pulverized coal in a small-scale down-fired combustor. The combustor was operated under different conditions to simulate baseline, high excess air firing, and nitrogen oxide (NOx) controls by combustion modifications. Samples were extracted near the combustor exit, upstream of any pollution control equipment. Data collected indicate that relatively low levels of organic HAPs are present in the flue gases for any of the combustion conditions; however, several compounds were present that have not been reported in previous studies. To the extent that these small-scale tests accurately simulate full-scale units, estimates based on these experiments indicate that the total HAP emissions from a large utility power plant are not likely to increase significantly due to installation of combustion modification techniques for NOx control.

Keywords: *Air pollution control, *Flue gases, *Coal combustion, Hazardous materials, Emission, Stationary sources, Organic compounds, Nitrogen oxides, Power plants, Pulverized fuels, Reprints, NOx(Nitrogen oxide), CAAAs(Clean Air Act Amendments), HAPs(Hazardous air pollutants), Small-scale combustor.

PB94-190527/REB PC **A03**/MF **A01**
Interpretation of Toxicity Response of Bobwhite Quail with Respect to Duration of Exposure. Journal article.
Corvallis Environmental Research Lab., OR.
M. A. Shirazi, R. S. Bennett, and R. K. Ringer. c1994, 11p EPA/600/J-94/298
Pub. in Archives of Environmental Contamination and Toxicology 26, p417-424 1994. See also PB94-144722. Prepared in cooperation with Michigan State Univ., East Lansing. Center for Environmental Toxicology.

Avian dietary toxicity tests were conducted with seven pesticides, two age groups (2 and 16 weeks old) of northern bobwhite (Colinus virginianus) and two durations (5 and 28 days) of exposure. Results were analyzed with an emphasis placed on comparing mortalities on similar test conditions. An analysis that used the entire dose-time-response results led to the calculation of a common measure (asymptotic rate e) of the temporal development of the response surface and served as a basis of comparison of diverse test results. The asymptotic median lethal concentrations were designated by ALC50 and the median lethal concentrations at the end of a test period by LC50. It was found that: (1) Young birds in 5- and 28-day tests were more sensitive to incremental increases in the duration of exposure than adults. (2) Young birds were less sensitive to incremental increases of dietary concentration than adults only in the 5-day test and displayed delayed response patterns in six of the seven chemicals in those tests.

Keywords: *Birds, *Exposure, *Pesticides, *Toxicity tests, Response, Mortality, Dosage, Concentration(Composition), Toxic tolerances, Diets, Adults, Comparison, Age, Mathematical models, Graphs(Charts), Reprints, *Colinus Virginianus, Bobwhites, LC50, Carbofuran.

PB94-190535/REB PC **A03**/MF **A01**
Chemical Characteristics and Temporal Trends in Eight Streams of the Catskill Mountains, New York. (Revised). Journal article.
Corvallis Environmental Research Lab., OR.
P. S. Murdoch, and J. L. Stoddard. c1993, 18p EPA/600/J-94/299
Pub. in Water, Air, and Soil Pollution 67, p367-395 1993. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR. and Geological Survey, Albany, NY. Water Resources Div.

Discharge-concentration relations in eight streams studied by the U.S. Geological Survey as part of the U.S. EPA Long-Term Monitoring Project (1983 - 1989) indicate acidification of some streams by sulfuric and nitric acid from atmospheric deposition, and organic acids from soils. Concentrations of major ions in precipitation were similar to those reported at other sites in the Northeast. Average concentrations of sulfate and nitrate were similar among streams; base cation

concentrations differed widely and the differences paralleled variations in acid neutralizing capacity (ANC). Baseflow ANC is not a strong predictor of stream acidity at high flow; some streams with high baseflow ANC showed declines to near zero ANC at high flow and one stream with low ANC at baseflow did not approach zero ANC as flow increased. Episodic decreases in ANC and pH during peak flows were associated with increases in concentrations of nitrate and dissolved organic carbon. Differences between measured ANC and concentrations of calcium and magnesium were equivalent to concentrations of sulfate. Episodic decreases in ANC and pH during peak flows were associated with increases in nitrate concentrations and dissolved organic carbon.

Keywords: *Acidification, *Streams, *Chemical properties, *Air pollution effects, *Catskill Mountains, Atmospheric deposition, Sulfates, Nitric acid, pH, Concentration(Composition), Base flow, Carbon, Organic compounds, Nitrates, Neutralizing, Trends.

PB94-190543/REB PC **A03/MF A01**
National Science Foundation, Arlington, VA.
Ecological Structure among Migrant and Resident Seabirds of the Scotia-Weddell Confluence Region. Journal article.
Corvallis Environmental Research Lab., OR.
D. G. Ainley, C. A. Ribic, and W. R. Fraser. c1994, 21p EPA/600/J-94/300
Grants NSF-DPP8304815, NSF-DPP8419894
Pub. in Jnl. of Animal Ecology 63, p347-364 1994. Prepared in cooperation with Point Reyes Bird Observatory, Stinson Beach, CA. and Old Dominion Univ., Norfolk, VA. Sponsored by National Science Foundation, Arlington, VA.

The report quantitatively assesses seasonal changes in community structure and habitat selection among seabirds in the Scotia-Weddell Confluence region, Antarctica. Discussed are biological and physical factors underlying the patterns. Data were derived from strip-transects on closely-coordinated multidisciplinary cruises that characterized the physics and biology during Spring 1983, autumn 1986 and winter 1988. Described for the first time ever for the Southern Ocean, seasonal changes in seabird communities in terms of composition, using cluster analysis, as well as relative density and diversity among species. Sea-surface temperature, distance to the pack ice edge and ice type, all physical characteristics of habitat, were the most important environmental variables that affected assemblage composition. Three recurrent assemblages of species were identified. One persistent assemblage, present year round, was associated with the pack ice; another was associated with open waters immediately adjacent to the ice; and a third was a far-from-ice assemblage.

Keywords: *Birds, *Habitats, *Assessments, *Scatia Sea, *Weddell Sea, Marine biology, Aquatic ecosystems, Changes, Animal migrations, Seasonal variations, Density(Mass/Volume), Ocean temperature, Seasonal variations, Antarctic regions, Species diversity, Pack ice, Pelagic zone, Tables(Data), Environmental protection, Reprints, *Seabirds.

PB94-190550/REB PC **A03/MF A01**
Army Dugway Proving Ground, UT.
Bacterial Flux from Chaparral into the Atmosphere in Mid-Summer at a High Desert Location. Journal article.
Corvallis Environmental Research Lab., OR.
R. Lighthart, and B. T. Shaffer. c1994, 11p EPA/600/J-94/301
Pub. in Atmospheric Environment, v28 n7 p1267-1274 1994. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR. Sponsored by Army Dugway Proving Ground, UT.

In the future, there is a potential for anthropogenic microbial air pollution (MAP) associated with large-scale use of microbial pesticides and other microbials in forestry and agriculture, and other agricultural practices and urban activities, particularly sewage treatment and solid waste composting. If we are to manage the atmospheric bacterial loading from these sources, we must have a better understanding of the dynamics of airborne bacterial populations. The report describes a first step in understanding these dynamics by evaluating the flux of bacteria during daylight hours at an isolated location in the high desert chaparral. The idea here is to use the flux of bacteria from natural sources as a surrogate for micro-organisms applied to vegetation by man.

Keywords: *Bacteria, *Aerosols, *Air pollution, *Environmental management, Ultraviolet radiation, Microorganisms, Pollution sources, Pesticides, Sewage treatment, Atmospheric composition, Solar radiation, Deserts, Summer, Solid wastes, Forests, Agricultural products, Vegetation, Reprints, *Microbial air pollution.

PB94-190568/REB PC **A03/MF A01**
National Inst. of Environmental Health Sciences, Research Triangle Park, NC.
Effects of 7,12-Dimethylbenz(a)anthracene on Immune Function and Mixed-Function Oxygenase Activity in the European Starling. Journal article.
Corvallis Environmental Research Lab., OR.
K. A. Trust, A. Fairbrother, and M. J. Hooper. c1994, 12p EPA/600/J-94/302
Contract NIEHS-ES04696
Pub. in Environmental Toxicology and Chemistry, v13 n5 p821-830 1994. Prepared in cooperation with Clemson Univ., SC. Inst. of Wildlife and Environmental Toxicology. Sponsored by National Inst. of Environmental Health Sciences, Research Triangle Park, NC.

Immune function and hepatic MFO activity were examined in adult and nestling starlings administered a synthetic PAH, 7,12-dimethylbenz(a)anthracene (DMBA). Methods used to examine the starling immune system included immunopathology, macrophage phagocytosis, lymphocyte blastogenesis to concanavalin A, and hemagglutination of sheep erythrocytes (SRBC). Concomitant investigations of MFO activity were conducted in starlings exposed to DMBA. Ethoxyresorufin O-dealkylase (EROD) and pentoxyresorufin O-depentylase (PROD) were used as indicators of hepatic MFO activity. Changes in MFO activity were compared to chemically altered immune responses following DMBA exposure. Subcutaneous exposure of adult starlings to 125 mg/kg DMBA resulted in suppression of lymphocyte blastogenesis and antibody production to SRBC. EROD and PROD activity were increased 2.8- and 3.4-fold, respectively. Lymphocyte blastogenesis was impaired in adult starlings orally exposed to 125 mg/kg DMBA. The immune system of nestling starlings exposed orally to 100 mg/kg DMBA was altered, as evidenced by decreased phagocytic ability of macrophages and inhibition of lymphocyte blastogenesis. Oral exposure to DMBA did not induce MFO activity in starlings of either age class. Effects of DMBA on immune function and MFO activity in starlings varied with the age of birds and route and length of chemical exposure.

Keywords: *Cellular immunity, *Mixed function oxygenases, *Toxicity, Reprints, Liver, Phagocytosis, Lymphocyte transformation, Hemagglutination tests, Antibody formation, *European starlings, *Sturnus vulgaris, *Anthracene/7-12-dimethylbenz(a).

PB94-190576/REB PC **A03/MF A01**
Distribution, Type, Accumulation, and Source of Marine Debris in the United States, 1989-93. Symposium paper.
Corvallis Environmental Research Lab., OR.
C. A. Ribic, S. W. Johnson, and C. A. Cole. May 94, 49p EPA/600/A-94/137
Pub. in Proceedings of International Conference on Marine Debris (3rd), Miami, FL., May 1994. Prepared in cooperation with National Marine Fisheries Service, Auke Bay, AK. Auke Bay Lab. and Pennsylvania State Univ., University Park. Forest Resources Lab.

Distribution, type, accumulation, and source of marine debris on coastal beaches and in harbors of the United States were examined from 1989 to 1993. Information was compiled from annual beach cleanups coordinated by the Center for Marine Conservation, quarterly beach surveys at eight national parks, studies in Alaska that examined the deposition rate of select debris items, and surveys of floating debris in 10 harbors. Beach surveys provide important information on the distribution, type, accumulation, and source of marine debris. Continued monitoring will help determine whether present legislation is effective in reducing debris in U.S. marine waters.

Keywords: *United States, *Beaches, Marine pollution, Water pollution, Land pollution, Harbors, Coastal regions, Pollution sources, Ocean waste disposal, Marine disposal, Litter, Plastics, Accumulations, Environmental transport, Environmental effects, Environmental surveys, National parks, Reprints, *Marine debris.

PB94-190584/REB PC **A03/MF A01**
Critical Review of Analytical Approaches for Petroleum Contaminated Soil. Symposium paper.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
C. Y. Fan, S. Krishnamurthy, and C. T. Chen. 22 Apr 93, 16p EPA/600/A-94/138
Pub. in American Society for Testing and Materials Symposium Proceedings, 'Analysis of Soils Contaminated with Petroleum Constituents', Atlanta, GA., p61-74, 24 Jun 93.

Petroleum products comprise a vast continuum of hydrocarbons from gasoline which is mainly short chain and simple aromatic hydrocarbons, passing to kerosene, diesel, and heavy oils and to lubricating oils or vaseline, each gradation with increasing carbon chains and complexity. Gasoline alone may contain over twelve hundred compounds. Properties of these vary and this will be of analytical concern. Evaluation of the efficiency of treatment technology and site remediation progress will lean heavily on analytical techniques that are associated with accuracy, reproducibility and of real time value. The vast array of methods provide data of varying and questionable results. This paper examines the various analytical techniques available along with their special features, and it also discusses new methods currently under development that may reflect real soil contamination levels.

Keywords: *Soil pollution, *Petroleum products, *Gas chromatography, Reprints, Analytical chemistry, Remedial action, Organic compounds, Diesel fuels, Gasoline, Petrochemistry, Extraction, Crude oil, Underground storage, Fuel storage, Gas storage, Total recoverable petroleum hydrocarbons.

PB94-190592/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Integrating Dispersion Modeling, Receptor Modeling and Air Monitoring to Apportion Incinerator Impacts for Exposure Assessment. Conference paper Jan 92-Jun 93.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
H. W. Ma, D. L. Fox, S. Mukerjee, R. K. Stevens, and C. M. Shy. 1994, 13p EPA/600/A-94/095
Contract EPA-68-D0-0106
Prepared in cooperation with North Carolina Univ. at Chapel Hill. School of Public Health. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Determination of air pollution exposure to human beings ideally would involve the determination of dose to target organ of interest. The approach presented here provides a screening technique in ultimately linking exposure and subsequent short-term effects on lung function from the emissions of an incinerator. This approach combines air quality measurements, Geographical Information Systems (GIS), receptor and dispersion modeling to apportion the impact of an incinerator source to locations where individuals live in surrounding neighborhoods. GIS techniques establish the spatial relationships between the incinerator source and individuals. The receptor and dispersion model predictions are compared at the air quality monitoring location. A scaling factor is determined for use in predicting incinerator impact at other outdoor locations. This technique is applied to a Health and Clean Air Study investigating the respiratory effects of air emissions associated with 3 types of waste incinerators--biomedical waste and municipal waste incinerators, and a waste burning industrial furnace. The purpose of this larger investigation is to determine the potential impact of atmospheric emissions from incinerators on individuals residing near these sources.

Keywords: *Air pollution monitoring, *Air quality, *Atmospheric diffusion, *Incineration, *Public health, *Air pollution effects(Humans), Waste disposal, Municipal wastes, Hazardous wastes, Exposure, Geographical information systems, Spatial distribution, Environmental transport, Houses, Wind(Meteorology), Pollution sources, Industrial Source Complex Short-Term Dispersion Model, Chemical Mass Balance Receptor Model, Medical wastes.

PB94-190600/REB PC **A03**/MF **A01**
Are There Carcinogens in Water for Human Consumption. An Epidemiologist's Viewpoint. Book chapter.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
A. O. S. Chiu, D. L. Bayliss, and R. G. M. Wang. 1994, 19p EPA/600/A-94/112, OHEA-C-564
Pub. in Water Contamination and Health: Integration of Exposure Assessment, Toxicology, and Risk Assessment, Chapter 22, 1994.

Carcinogenesis is a complex and dynamic interaction of host and environment. Important host factors include genetic constitution and health status. Among environmental factors, diet, pollutants in air and water, occupation, and life-style characteristics, such as smoking, are known to affect cancer development in the human population. This perspective represents a synthesis of the accumulated knowledge from epidemiology and animal experiments. Cancer epidemiology, in contrast to animal toxicological studies, requires no transference of the conclusions from the analysis of the animal data to indicate human carcinogenic potential. The long latency between the inception of cancer and its manifestation, and comparatively low incidence in human beings, as well as the difficulty of ascertaining exposure, have made an epidemiological approach demonstrating a cause-and-effect relationship between the suspected carcinogen and a specific cancer a very difficult if not impossible task. The recent flurry of activity in basic research in oncogenes also reinforces Knudson and others observations regarding genetic influences on cancer development.

Keywords: *Drinking water, *Carcinogenesis, *Epidemiology, Risk assessment, Environmental exposure, Health status, Oncogenes, Cancer, Humans, Public health, Water pollution effects(Humans), Sources, Dosage, Reprints, MCL(Maximum contamination level).

PB94-190816/REB PC **A03**/MF **A01**
Concepts in Improving Polychlorinated Biphenyl Bioavailability to Bioremediation Strategies. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
P. J. Morris, and P. H. Pritchard. 1994, 13p EPA/600/A-94/113
Pub. in Bioremediation of Chlorinated and Polycyclic Aromatic Hydrocarbon Compounds, p359-367 1994. Prepared in cooperation with SBP Technologies, Inc., Gulf Breeze, FL.

The objectives of this paper are to review information on abiotic and biotic interactions of PCBs in soil and sediment, and to suggest possible approaches to coupling enhanced availability to increased biodegradation. The authors are currently studying the biodegradation of PCBs found in a former drag strip soil in New York State that exemplifies the problems associated with bioavailability. The PCB concentration in this soil is roughly 500 mg/kg, and no longer resembles commercial Aroclor 1242(TM). Depletion of the di- and trichlorobiphenyls, probably due to the evaporation of these more volatile congeners, has resulted in a PCB congener profile that more closely resembles Aroclor 1248(TM). After 13 weeks, the soil in the top 3 cm of the test plot showed approximately 20% biodegradation of the PCB; after 18 weeks, approximately 25% of the PCB had degraded. The rate of biodegradation at the drag strip was about 50% of the rate seen in the laboratory experiments. However, even in optimized laboratory studies, approximately 50% of the total PCBs was unavailable to microbial degradation. The soil-bound, less-available PCB fraction is the focus of this discussion.

Keywords: *Chlorinated aromatic hydrocarbons, *Biological availability, *Biodegradation, *Soil pollution, Reprints, Soil microbiology, Sediments, Pseudomonas, Field tests, Uptake, Surfactants, Sorption, *PCBs(Polychlorinated biphenyls), *Polychlorinated biphenyls, Bioremediation.

PB94-190824/REB PC **A03**/MF **A01**
Macrophage Aggregates as Indicators of Environmental Stress. (Chapter 15). Book chapter.
Environmental Research Lab., Gulf Breeze, FL. Office of Research and Development.
V. S. Blazer, D. E. Facey, J. W. Fournie, L. A. Courtney, and J. K. Summers. 1994, 18p EPA/600/A-94/114
Pub. in Modulators of Fish Immune Responses: Models for Environmental Toxicology/Biomarkers, Immunostimulators, v1 p169-186 1994. Also pub. as Environmental Research Lab., Gulf Breeze, FL. Office of Research and Development rept. no. CONTRIB-850. Prepared in cooperation with National Fish Health Research Lab., Kearneysville, WV. and Saint Michael's Coll., Colchester, VT. Dept. of Biology.

The growing awareness of adverse effects of environmental contamination has lead to scrutiny of various biomarkers as early indicators of these effects. The use of splenic macrophage aggregates (MA) as indicators of fish health and environmental degradation was evaluated using three fish species from four sites. The sites were part of the Environmental Protection Agency's Environmental Monitoring and Assessment Program (EMAP). Water quality, benthic and fish community characteristics, sediment and fish tissue contaminant analysis were all conducted at these sites. In addition, tissues from pinfish (Lagodon rhomboides), spot (Leiostomus xanthurus) and gafftopsail catfish (Bagre marinus) were fished in the field. Histological sections of spleen were evaluated using a numerical rating system and image analysis. The MA number, size, and percent of tissue occupied by MAs of each species was compared among sites and related to either tissue or sediment contaminant levels. Spot MA parameters were all significantly higher at the site with the highest sediment contaminant levels. Catfish accumulated high tissue burdens of most contaminants when compared to other fish collected at the same site. Catfish MA parameters were also better indicators of tissue contaminant levels. The usefulness of MA as indicators of environmental stress is supported by this study. Choice of fish species to evaluate sites is discussed.

Keywords: *Environmental monitoring, *Water pollution effects(Animals), *Biological markers, *Macrophages, Body burden, Water quality, Sediments, Spleen, Kidney, Liver, Aging(Biology), Estuaries, Lake Champlain, Reprints, Lagodon rhomboides, Leiostomus xanthurus, Bagre marinus.

PB94-190832/REB PC **A01**/MF **A01**
Molecular Phylogenetic Explorations of Natural Microbial Community Composition and Diversity.
Environmental Research Lab., Gulf Breeze, FL. Office of Research and Development.
R. Devereux, J. Kurtz, and G. Mundfrom. c1994, 5p EPA/600/A-94/115
Pub. in Proceedings of International Conference on Microbial Ecology (6th). Prepared in cooperation with Technical Resources, Inc., Gulf Breeze, FL.

Comparative sequence analysis of ribosomal RNA molecules has led to a phylogenetic-based approach to characterize natural microbial communities. The approach has been applied to study natural communities of sulfate-reducing bacteria. Hybridization probes were used to measure relative amounts of specific sulfate reducer rRNAs in an estuarine sediment. Selective amplification, cloning, and comparative sequence analysis of 16S ribosomal RNA gene sequences have revealed new diversity among sulfate-reducing bacteria.

Keywords: *Phylogeny, *Sulfate reducing bacteria, 16S ribosomal RNA, Bacterial RNA, Species diversity, Nucleic acid sequence homology, Aquatic microbiology, Molecular cloning, Gene amplification, Reprints.

PB94-190840/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Performance and Efficiency Evaluations of 11 Non-CFC Refrigerants. Rept. for Jan-Mar 93.
Acurex Corp., Research Triangle Park, NC.
G. S. Kazachki, and C. L. Gage. 1993, 28p EPA/600/A-94/116
Contract EPA-68-D0-0141
Presented at World Energy Engineering Conference (16th), Atlanta, GA., October 26-28, 1993. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives results of a theoretical evaluation of the performance and efficiency of 11 non-chlorofluorocarbon (CFC) refrigerants. An analytical method using a limited set of property data is used as a tool. The performance of these refrigerants is determined for a variety of vapor-compression cycles which are thermodynamic analogies to existing systems. Through separation of the basic vapor-compression cycle into elemental cycles representing only throttling losses or only compression superheating losses, important information is drawn about the design implications of subcooling or superheating the refrigerant. It is shown through this analysis that alternative, as well as standard, refrigerants fall into two general performance classes. These classes result in important performance and efficiency information which can be used to develop a vapor-compression system design tailored to the refrigerant class.

Keywords: *Refrigerants, *Fluorinated hydrocarbons, *Environmental chemical substitutes, Methane, Ethanes, Propanes, Halogenated hydrocarbons, Refrigeration systems, Cooling systems, Alternatives, Thermal efficiency, Thermodynamic properties, Energy efficiency, Performance evaluation, Environmental impacts, Ozone depletion, Air pollution abatement, Reprints.

PB94-190857/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Alternatives for Ozone-Depleting Refrigerants. Rept. for Oct 91-Apr 93.
Acurex Corp., Research Triangle Park, NC.
N. D. Smith, and K. Ratanaphruks. 1993, 6p EPA/600/A-94/117
Contract EPA-68-D0-0141
Presented at the Conference on Environmental Commerce (CONEC '93), Chattanooga, TN., October 17-20, 1993. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives results of tests of 2 of 11 compounds and several mixtures selected for intensive evaluation from about 40 new synthesized compounds that may serve as environmentally safe and effective refrigerant alternatives over the long term. The two compounds are: 1,1,1,2,3,3-hexafluoropropane (HFC-236ea), a potential alternative for CFC-114; and 1,1,2,2,3-pentafluoropropane (HFC-245ca), a potential alternative for CFC-11. These two compounds have zero ozone depletion potential, low global warming potential, and thermophysical properties closely matching those of the chlorofluorocarbons (CFCs) they may replace. Limited toxicity tests to date reveal no adverse toxic effects. Flammability tests of HFC-236ea and HFC-245ca show the former to be nonflammable and the latter to be marginally flammable depending on humidity and ignition source energy. Both compounds have been shown to be thermally and hydrolytically stable, miscible with the new polyolester lubricants, and compatible with numerous construction materials commonly used in refrigeration.

Keywords: *Refrigerants, *Fluorinated hydrocarbons, *Environmental chemical substitutes, Halogenated hydrocarbons, Refrigeration systems, Cooling systems, Alternatives, Thermal efficiency, Energy efficiency, Thermodynamic properties, Thermophysical properties, Environmental impacts, Chlorofluorocarbons, Ozone depletion, Air pollution abatement, Reprints, HFC-236ea, HFC-245ca.

PB94-190865/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Fuzzy Logic Motor Control for Pollution Prevention and Improved Energy Efficiency. Rept. for Oct 92-Aug 93.
Research Triangle Inst., Research Triangle Park, NC.
R. J. Spiegel, P. J. Chappell, M. A. Maxwell, J. G. Cleland, and B. K. Bose. Oct 93, 13p EPA/600/A-94/118
Grant EPA-R-818282-02
Presented at the Conference on Environmental Commerce (CONEC '93), Chattanooga, TN., October 17-20, 1993. Prepared in cooperation with Tennessee Univ., Knoxville. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses an EPA program investigating fuzzy logic motor control for improved pollution prevention and energy efficiency. Initial computer simulation and laboratory results have demonstrated that fuzzy logic energy optimizers can consistently improve motor operational efficiency over conventional adjustable-speed drive (ASD) operation. This is significant in terms of both potential U.S. pollution prevention and energy savings possibilities. The addition of a fuzzy logic energy optimizer microchip to an ASD is minimal

in terms of cost because low-power microchips are very cheap when manufactured in volume. Thus, the energy savings and enhanced motor operation and lifespan should be regarded as almost free because cost payback is potentially so short.

Keywords: *Air pollution abatement, *Electric motors, *Energy efficiency, Control systems, Electronic control, Performance evaluation, Microelectronics, Controllers, Energy conservation, Costs, *Fuzzy logic, Adjustable speed drives.

PB94-190873/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Evaluation of Pollution Prevention Opportunities for Coated and Laminated Substrate Manufacturing Equipment Cleaning. Rept. for Nov 92-May 93.
TRC Environmental Corp., Chapel Hill, NC.
M. Kosusko, B. W. McMinn, and J. B. Vitas. 1994, 8p EPA/600/A-94/119
Contract EPA-68-D9-0173
Presented at the AIChE Conference, Seattle, WA., August 15-18, 1993. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives interim results from an EPA (Air and Energy Engineering Research Laboratory) investigation of cleaning needs and pollution prevention options for the coated and laminated substrate manufacturing industry, the No. 1 source of methyl ethyl ketone (MEK) and the No. 3 source of toluene in EPA's Toxics Release Inventory System. Equipment cleaning, the source of a significant portion of these emissions, has not been an industry focus. Promising pollution prevention techniques will be demonstrated.

Keywords: *Coating processes, *Cleaning agents, *Air pollution abatement, Methyl ethyl ketones, Toluene, Organic compounds, Solvents, Laminates, Coatings, Substrates, Emission factors, Stationary sources, Air pollution control, Air polluton sources, Reprints, Emission inventories.

PB94-190881/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Key Non-Process Solvent Uses Targeted as Pollution Prevention Opportunities. Rept. for Feb-Nov 92.
Research Triangle Inst., Research Triangle Park, NC.
M. Kosusko, C. M. Northeim, G. W. Deatherage, and L. A. Hollar. 1992, 8p EPA/600/A-94/120
Contract EPA-R-819541
Presented at the AIChE Summer National Meeting, Seattle, WA., August 15-18, 1993. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses an EPA assessment of non-process solvent emissions from 15 industrial and commercial source categories in support of the Consumer and Commercial Products Report to Congress which was mandated in Section 183(e) of the Clean Air Act Amendments of 1990. These products include both traditional and non-traditional consumer products, i.e., solvents used by industry and commercial operations that are not part of a manufacturing production line or incorporated into a product as part of the manufacturing process. The categories are: automotive repair; bakeries; building renovation; chemical manufacturing; electrical equipment maintenance; florists; furniture repair and restoration; heating; air conditioning, and refrigeration service; machine shops; mold release agents; office products; quick print shops; road paving; roofing; and textile manufacturing.

Keywords: *Organic solvents, *Air pollution abatement, *Stationary sources, Air pollution control, Air pollution sources, Emission factors, Emissions, Sectoral analysis, Commercial sector, Households, Industry, Business, Pollution regulations, Reprints, *Nonprocess solvents, Emission inventories, Volatile organic compounds, Consumers, Clean Air Act Amendments of 1990.

PB94-190899/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Performance and Efficiency Evaluations of New Fluorinated Ethers, Propanes, and Butanes. Rept. for Jan-Apr 93.
Acurex Corp., Research Triangle Park, NC.
C. L. Gage, and G. S. Kazachki. 1993, 27p EPA/600/A-94/121
Contract EPA-68-DO-0141
Presented at World Energy Engineering Congress (16th), Atlanta, GA., October 26-28, 1993. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives results of a thermodynamic evaluation that investigates the performance of 15 new chemicals as refrigerants, the impact of the new chemicals on compressor size and operating characteristics, and the efficiency of the refrigerants in vapor compression cycles. Their efficiency in the basic vapor compression cycle is low, but improves substantially in a cycle with internal heat exchange. Several alternatives are identified as promising replacements. As a step in evaluating the potential performance of the 15 compounds, the evaluation using limited property data was performed on the chemicals for use as refrigerants in supermarket, chiller, refrigerator/freezer, heat pump, and air conditioning applications. The 15 chemicals included 10 fluorinated propanes, 3 fluorinated butanes, and 2 fluorinated ethers which are potential chlorofluorocarbon (CFC) and hydrochlorofluorocarbon replacements.

Keywords: *Air pollution abatement, *Fluorohydrocarbons, *Refigerants, Ethers, Propanes, Thermodynamic properties, Temperature, Stationary sources, Pollution control, Carnot cycle, Thermal efficiency, Substitutes, Graphs(Charts), Reprints, Chlorine-free refrigerants, Vapor compression cycles, Chlorofluorocarbons, Hydrochlorofluorocarbons, COP(Coefficients of performance).

PB94-190907/REB PC **A03**/MF **A01**
Regulations and Research Related to Volatile Organic Compounds (VOCs): Meeting the Ozone Standard Nationwide by 2010.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
W. H. Ponder. Jul 93, 17p EPA/600/A-94/122
Presented at Conference on Environmental Commerce (CONEC '93), Chattanooga, TN., October 17-20, 1993.

The paper gives an overview of the regulatory requiremets related to ambient ozone and discusses the related research programs of the Organics Control Branch of EPA's Air and Energy Engineering Research Laboratory (AEERL). The programs are part of AEERL's comprehensive research program to identify and demonstrate prevention and control approaches for reducing volatile organic compound (VOC) emissions. VOCs react in the atmosphere to form ozone at ground level. Failure to attain the ambient ozone standard is one of the most pressing air pollution problems in the U.S. The Clean Air Act Amendments of 1990 include stringent requirements to ensure attainment of the ozone standard in some areas as early as 1993, and attainment in all areas by 2010.

Keywords: *Ozone, *Air pollution standards, *Pollution regulations, Air pollution control, Air pollution abatement, Standards compliance, Air pollution sources, Requirements, Photochemistry, Emissions, Nitrogen oxides, Reprints, *Volatile organic compounds, Nonattainment.

PB94-190915/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Field Performance of Woodburning Stoves in Crested Butte during the 1991-92 Heating Season. Rept. for Nov 91-Apr 92.
Virginia Polytechnic Inst. and State Univ., Blacksburg. Dept. of Mechanical Engineering.
D. R. Jaasma, C. H. Stem, M. R. Champion, and R. C. McCrillis. 1992, 28p EPA/600/A-94/123
Grant EPA-R-819599-01-0
See also PB94-161270. Presented at the Air and Waste Management Association Annual Meeting (87th), Cincinnati, OH., June 19-24, 1992. Prepared in cooperation with Majestic Co., Huntington, Indiana. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The 1991-92 field performance of 11 woodburning stoves in and around Crested Butte, CO, was evaluated. Measurements included particulate matter (PM), carbon monoxide (CO), total unburned hydrocarbons (THC), and weekly average burn rates. The monitored stoves included EPA-certified catalytic stoves and EPA-certified noncatalytic stoves. The main emphasis of the continuing study is to characterize the emissions of EPA-certified stoves as they age with normal use. The emissions of a previously monitored Phase II noncatalytic stove appeared to be unchanged when variations in field moisture content and burn rate were taken into account. A second Phase II noncatalytic stove also performed at the emission levels which has been observed for noncatalytic stoves in previous monitoring.

Keywords: *Wood burning appliances, *Air pollution sampling, *Stoves, Burning rate, Combustion efficiency, Emission factors, Heating, Residential buildings, Combustion products, Carbon monoxide, Hydrocarbons, Particulates, Air pollution monitoring, Air pollution control, Field tests, Colorado, Reprints, Crested Butte(Colorado).

PB94-190923/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Enhanced Combustion Woodstove (ECW) Technology. Rept. for Jan 91-Jul 93.
Acurex Corp., Research Triangle Park, NC.
R. C. McCrillis, J. H. Abbott, W. H. Ponder, N. L. Butts, and D. S. Henry. 1994, 6p EPA/600/A-94/124
Contract EPA-68-DO-0141
Presented at the Conference on Environmental Commerce (CONEC '93), Chattanooga, TN., October 17-20, 1993. Prepared in cooperation with Aladdin Steel Products, Inc., Colville, WA. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses Enhanced Combustion Woodstove (ECW) technology, developed by EPA in response to the field observation that woodstoves certified by EPA as being clean burning were not achieving the level of emission control 'seen' in laboratory tests. ECW technology is based on the fact that woodstove emissions are caused by the incomplete combustion and pyrolysis of wood in the primary combustion zone. To achieve low emissions, the stove must incorporate a secondary combustion zone above the wood which will hold flame at all times. Current noncatalytic woodstoves can achieve satisfactory secondary combustion only under fairly ideal conditions. Stable secondary combustion may not be achieved at typical low-fire conditions, leading to high emissions. Initial work focused on using an electrical glowplug (ECW electric) to ignite and add energy to the secondary combustion zone. Later work has focused on using a gaseous fuel (ECW gaseous or ECWG) for this purpose.

Keywords: *Wood burning appliances, *Stoves, *Combustion efficiency, *Air pollution control, Exhaust emissions, Emission factors, Pyrolysis, Burning rate, Air pollution abatement, Combustion products, Performance evaluation, Design criteria, Reprints, Enhanced combustion woodstove, Glowplugs, Secondary combustion.

PB94-190931/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Demonstration of Waterbased Platen Adhesives for Garment Screen Printers. Rept. for Aug 93-Jan 94.
Research Triangle Inst., Research Triangle Park, NC.
G. W. Deatherage, and M. Kosusko. 1994, 16p EPA/600/A-94/125
Grant EPA-R-819541
Presented at the Air and Waste Management Association Meeting, Cincinnati, OH., June 19-24, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses a demonstration of waterbased platen adhesives as a viable alternative to the organic-based aerosol adhesives that are predominantly used by garment screen printers to affix garments or fabric pieces to print platens. To demonstrate this, the effectiveness of six waterbased platen adhesives was evaluated, compared to each other and to an aerosol adhesive, during actual manufacturing runs at a garment

screen printing facility. Quantitative data concerning the amount used during printing, the cost, and the constituents of each adhesive were collected so that emission estimates and comparative cost analyses could be completed. Demonstration results show that waterbased platen adhesives can perform effectively in garment screen printing operations when applied by an automatic spray system. In addition, waterbased products that contain no volatile organic compounds (VOCs) appear to be at least equal in performance to those waterbased products that contain VOCs. No-VOC waterbased adhesives are also the least expensive to use. There are several limitations to the study results.

Keywords: *Adhesives, *Environmental chemical substitutes, *Air pollution abatement, *Screen printing, *Fabrics, Volatile organic compounds, Stationary sources, Cost analysis, Textile industry, Performance evaluation, Spraying, Platens, Emission factors, *Waterbased platen adhesives.

PB94-190949/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Application of Pollution Prevention to Reduce Indoor Air Emissions from Office Equipment and from Composite Wood Materials. Rept. for Oct 93-Feb 94.
Research Triangle Inst., Research Triangle Park, NC.
C. M. Northeim, K. W. Leovic, and E. M. Shaver. 1994, 18p EPA/600/A-94/126
Grant EPA-R-822025-01-0
Presented at the Air and Waste Management Association Meeting, Cincinnati, OH., June 19-24, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses the application of pollution prevention to reduce indoor air emissions from office equipment and from composite wood materials. (NOTE: The literature indicates that emissions of organics, ozone, and particulates result from office equipment and/or composite wood products. Because most of these materials and/or equipment are utilized in indoor environments, their emissions have an impact on indoor air quality.) Research is currently being conducted by U.S. Environmental Protection Agency (EPA) and Research Triangle Institute (RTI) to identify sources of indoor air emissions and to identify, demonstrate, and evaluate pollution prevention approaches (i.e., developing low-emitting and/or low-impact materials) for reducing emissions from these products.

Keywords: *Indoor air pollution, *Emission, *Office equipment, Pollutant identification, Organic compounds, Ozone, Particulates, Stationary sources, Furniture, Composite materials, Wood products, Formaldehyde, Technology utilization, Reprints, Pollution prevention.

PB94-190956/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Methane Emissions from Abandoned Underground Coal Mines. Rept. for Oct 92-Sep 93.
Southern Research Inst., Durham, NC.
E. Ringler, S. Piccot, and D. A. Kirchgessner. 1994, 9p EPA/600/A-94/127
Contract EPA-68-02-0062
Presented at the Air and Waste Management Association Meeting, Cincinnati, OH., June 19-24, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper summarizes current research on abandoned underground coal mines. It forms an initial basis for developing an inventory of methane emissions from such mines. Early measurements have shown that some abandoned coal mines can liberate large volumes of high quality gas (up to 750,000 cu ft/day: 21,000 cu m/day). The research has focused on developing improved emission factors and relationships, and improving inventories for methane emissions from surface mining, coal handling, and abandoned underground mines. The work has initially focused on coal mining in the U.S., but will be extended to global coal production. Improved emissions inventories for coal mining operations will enhance the ability of researchers to assess the significance of coal mining in global scale processes. Determination of representative methane emissions relationships and mechanisms for coal mining (especialy abandoned mines) will also be useful to researchers and industrial groups exploring for potential sources of energy.

Keywords: *Methane, *Coal mines, *Underground mining, *Abandoned sites, Emissions, Emission factors, Natural emissions, Greenhouse gases, Air pollution monitoring, Air pollution sources, Periodic variations, Concentration(Composition), Study estimates, Greenhouse effect, Reprints, Emission inventories, Emission rates.

PB94-190964/REB PC **A02**/MF **A01**
Performance of Hydrocarbons in a Household Refrigerator/Freezer. Rept. for Nov 93-Mar 94.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
E. Baskin, and R. B. Perry. 1994, 7p EPA/600/A-94/128
Presented at International Refrigeration Conference, West Lafayette, IN., July 19-22, 1994.

The paper discusses the performance of hydrocarbons in a household refrigerator/freezer (R/F). It focuses on the utilization of specific hydrocarbons (propane and isobutane) as drop-in replacements for CFC-12 in household R/Fs. Results from this experimental work can be extrapolated to R/F applications in developing countries. The charge and capillary tube length have been optimized for CFC-12 and each hydrocarbon composition; no other modifications were made to the R/F. Numerical evaluations show that several compositions come near to the performance of CFC-12. Also, experimental evaluation shows that some hydrocarbon compositions' energy consumption is equal to or less than that of CFC-12 (i.e., 60/40%, 70/30%, and 80/20% by weight of isobutane/propane).

Keywords: *Refrigerants, *Hydrocarbons, *Environmental chemical substitutes, Butanes, 2-Methylpropane, Propane, Refrigerators, Freezers, Refrigeration systems, Cooling systems, Appliances, Performance evaluation, Thermal efficiency, Energy efficiency, Alternatives, Environmental impacts, Ozone depletion, Chlorofluorocarbons, Air pollution abatement, Reprints, CFC-12.

PB94-190972/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Reentry of Radon from Mitigation System Outlets.
Pennsylvania State Univ., University Park. Dept. of Architectural Engineering.
G. K. Yuill, and R. J. Coughlin. 1994, 25p EPA/600/A-94/129
Contract EPA-68-D0-0097
Presented at the Annual Meeting of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Orlando, FL., June 25-29, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

Some radon mitigation systems draw air with a high radon concentration from under the basement floors of houses and exhaust it outdoors. The objective of the project was to measure reentry rates for radon released at roof level and at ground level near a house, to determine whether or not exhaust above the roof is necessary. This was done by using a portable mock-up of a radon mitigation system exhaust, with sulphur hexafluoride (SF6) as a tracer gas. The roof level exhaust produced maximum indoor sulphur hexafluoride concentrations significantly lower than the ground level exhaust. This suggests that the better radon discharge location is on the roof of a house.

Keywords: *Radon, *Radionuclide migration, *Air flow, *Radiation monitoring, Tracer methods, Sulfur hexafluoride, Indoor air pollution, Residential buildings, Natural radioactivity, Soil-structure interactions, Reentry, Soil gases, Permeability, Basements, Roofs, Air pollution control, Reprints.

PB94-190980/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Evaluation of Innovative Ink Feed Systems for the Flexographic and Gravure Printing Industries. Rept. for Sep 93-Jan 94.
Research Triangle Inst., Research Triangle Park, NC.
G. W. Deatherage, and C. M. Nunez. Jan 94, 12p EPA/600/A-94/130
Contract EPA-R-818419
Presented at the Air and Waste Management Association Annual Meeting, Cincinnati, OH., June 19-24, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper gives results of an evaluation of innovative ink feed systems for the flexographic and gravure printing industries. The evaluation is part of an investigation and assessment of pollution prevention strategies involving ink-handling systems used in certain segments of the printing industry. Ink-handling systems include all steps as the ink is transported from a storage area to the substrate. Possible ink-handling processes include ink-mixing operations, transport of ink to the press, movement of ink from the sump to the printing cylinders by means of an ink feed system, and the actual printing operation in which the ink is transferred from the printing cylinder to the substrate. Modifications to the flexographic and gravure ink feed systems may potentially provide many benefits. Potential environmental benefits include reduced fugitive emissions, reduced emissions from cleaning solvents, and reduced amounts of hazardous waste. Benefits to the printer include savings from reduced purchases of diluent solvent and cleaning solvent as well as reduced hazardous waste disposal costs. In addition, many of these modifications will allow printers to better control their printing operations and achieve higher quality results.

Keywords: *Pollution abatement, *Printing inks, *Industrial wastes, Gravure printing, Flexography, Printing equipment, Performance evaluation, Revisions, Fugitive emissions, Air pollution abatement, Hazardous wastes, Feeders.

PB94-190998/REB PC **A02**/MF **A01**
Battery-Powered PM-10 Indoor Air Samplers Applied to Unvented Third World Residential Combustion Sources. Rept. for Jun 87-Mar 92.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
D. B. Harris, R. S. Chapman, and J. L. Mumford. 1993, 10p EPA/600/A-94/131
Presented at the Air and Waste Management Association National Meeting, Kansas City, MO., June 1992.

The paper discusses a battery-powered PM-10 indoor air sampler applied to unvented Third World residential combustion sources. The limited availability of reliable electric power away from the main towns meant that battery-powered systems were needed to collect integrated samples of the actual indoor exposure. The samplers incorporate horizontal elutriator PM-10 inlets and 8 by 10 in. (20 by 25 cm) filters for large sample capacity at low system pressure drop. A requirement for an integrated 24-hour sample meant that the usual Ni-Cd battery of the 4 L/min personal sampling pump was replaced by a Pb-acid gelled-electrolyte unit. These samplers, which have been used to develop emissions, chemical and bioassay data for coals from several mines as well as emissions variability within each coal type, are described and typical data collected are presented. A new version using a 12 L/min pumping system is also described.

Keywords: *Air samplers, *Air pollution sampling, *Developing countries, Particulates, Combustion products, Air pollution sources, Indoor air pollution, Residential buildings, Air pollution monitors, Lead acid batteries, Exposure, Reprints, PM-10, Battery powered, Developing country application.

PB94-191004/REB PC **A02**/MF **A01**
Infectivity and Teratogenicity of 'Beauveria bassiana' in 'Menidia beryllina' Embryos. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
D. P. Middaugh, and F. J. Genthner. c21 Jan 94, 8p EPA/600/J-94/274
Pub. in Archives of Environmental Contamination and Toxicology, v27 p95-102 1994. Also pub. as Environmental Research Lab., Gulf Breeze, FL. rept. no. CONTRIB-863.

Developing embryos of the inland silverside fish, Menidia beryllina, were exposed to conidiospores of the insect pathogenic fungus, Beauveria bassiana, that possessed activity against the migratory grasshopper,

Melanoplus sanguinipes. Various adverse effects were observed in Menidia beryllina embryos and larvae. They included rupture of the chorion, embryo death, developmental defects (vertebral abnormalities) in the embryo or hatched larvae, and fungal infections on the mandibles of larvae. Although there was little evidence of a definitive dose-response trend based on densities of viable conidiospores, statistically significant ($p < or = 0.01$) responses were observed in tests in which conidiospore densities were as low as 7.1 times 10 to the third power/ml and as high as 1.3 times 10 to the sixth power/m. Viable spores were required for adverse effects to occur; heat-killed spores failed to cause significant adverse effects. (Copyright (c) 1994 Springer-Verlag New York Inc.)

Keywords: *Non-mammalian embryo, *Reproduction(Biology), Reprints, Virulence, Fungus diseases, Larvae, *Beauveria bassiana, *Menidia beryllina, *Inland silversides.

PB94-191012/REB PC A02/MF A01
Calyptospora funduli (Apicomplexa, Calyptosporidae) in the Liver of the Gulf Toadfish, 'Opsanus beta'. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
M. F. T. Oliveira, W. E. Hawkins, R. M. Overstreet, and J. W. Fournie. 1993, 6p EPA/600/J-94/275
Pub. in Jnl. of Helminthol. Soc. Wash., v60 n2 p273-277 1993. Prepared in cooperation with University of Southern Mississippi, Hattiesburg. Dept. of Biology. and Gulf Coast Research Lab., Ocean Springs, MS.

Oocysts of the apicomplexan protozoan Calyptospora funduli were found in the liver of a gulf toadfish (Opsanus beta). The infected specimen was 1 of 54 (1.9%) toadfish livers examined histologically. The paraffin-embedded specimen containing the infection as well as similar material from Fundulus similis were processed for scanning electron microscopical (SEM) examination to view diagnostic surface features of C. funduli sporocysts. SEM examination confirmed sporopodia and a thin veil surrounding each of the 4 sporocysts per oocyst. Although a single case, the toadfish infection expands the broad host specificity of C. funduli to include a host other than an atheriniform fish species.

Keywords: *Parasitic diseases, *Liver, Marine fishes, Scanning electron microscopy, Histological techniques, Paraffin embedding, Coccidiosis, Reprints, *Calyptospora funduli, *Gulf toadfish, *Opsanus beta.

PB94-191020/REB PC A02/MF A01
New Eye Disease in Pen-Reared Chinook Salmon Caused by Metacestodes of 'Gilquinia squali' (Trypanorhyncha). Journal article.
Environmental Research Lab., Gulf Breeze, FL.
M. L. Kent, L. Margolis, and J. W. Fournie. 1991, 9p EPA/600/J-94/276
Pub. in the Jnl. of Aquatic Animal Health, v3 p134-140 1991. Prepared in cooperation with Department of Fisheries and Oceans, Nanaimo (British Columbia). Pacific Biological Station.

Eye infections by metacestodes of Gilquinia squali (Cestoda: Trypanorhyncha) were associated with mortality in chinook salmon Oncorhynchus tshawytscha reared in net-pens in seawater at two separate locations in British Columbia. Mortality associated with the disease was about 10% at one site and undetermined at the second site. The metacestode was found in the vitreous humor of moribund fish with eye lesions, whereas healthy fish from the same pen exhibited neither eye lesions nor the infection. The lesions were characterized by retinal folding and apparent retinal duplication, and cataractous changes; in severe cases, the cornea ruptured, and the lens was extruded. The spiny dogfish Squalus acanthias is the definitive host for the cestode. Spiny dogfish were prevalent in and around the affected net-pen sites, thus providing coracidia to infect the first intermediate host, which is most likely a crustacean. Although the metacestode is common in the eyes of European whiting Merlangius merlangus in the northeast Atlantic region, this is the first report of the infection in a salmonid.

Keywords: *Salmon, *Parasitic diseases, *Eye diseases, Reprints, Aquaculture, Mortality, Retina, Cataracts, Morbidity, *Onchorhynchus tshawytscha, *Gilquinia squali.

PB94-191038/REB PC A02/MF A01
Characterization of a New Thermophilic Sulfate-Reducing Bacterium 'Thermodesulfovibrio yellowstonii' gen. nov. and sp. nov.: Its Phylogenetic Relationship to 'Thermodesulfobacterium commune' and Their Origins Deep within the Bacterial Domain. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
E. A. Henry, R. Devereux, J. S. Maki, C. C. Gilmour, and C. R. Woese. 1994, 9p EPA/600/J-94/277
Pub. in Archives of Microbiology 161, p62-69 1994. Prepared in cooperation with Harvard Univ., Cambridge, MA. Div. of Applied Sciences., Marquette Univ., Milwaukee, WI. Dept. of Biology., Academy of Natural Sciences of Philadelphia, Benedict, MD. Benedict Estuarine Research Lab., and Illinois Univ. at Urbana-Champaign. Dept. of Microbiology.

A thermophilic sulfate-reducing vibrio isolated from thermal vent water in Yellowstone Lake, Wyoming, USA is described. The gram-negative, curved rod-shaped cells averaged 0.3 micrometers wide and 1.5 micrometers long. They were motile by means of a single polar flagellum. Growth was observed between 40 and 70 C with optimal growth at 65 C. Cultures remained viable for one year at 27 C although spore-formation was not observed. Desulfofuscidin and c-type cytochromes were present. The G + C content was 29.5 mol%. The divergence in the 16S ribosomal RNA sequences between the new isolate and Thermodesulfobacterium commune sugggests that these two thermophilic sulfate-reducing bacteria represent different genera. These two bacteria depict a lineage that branches deeply within the Bacteria domain and which is clearly distinct from previously defined phylogenetic lines of sulfate-reducing bacteria. Strain YP87 is described as the type strain of the new genus and species Thermodesulfovibrio yellowstonii.

Keywords: *Phylogeny, *Taxonomy, Reprints, Growth, 16S ribosomal RNA, Bacterial RNA, Nucleic acid sequence homology, Aquatic microbiology, Culture media, *Thermodesulfovibrio yellowstonii, *Thermodesulfovibrio commune.

PB94-191046/REB PC A02/MF A01
Environmental Protection Agency, Gulf Breeze, FL. Gulf Breeze Environmental Research Lab.
Characterization of 'Desulfomicrobium escambium' sp. nov. and Proposal to Assign 'Desulfovibrio desulfuricans' Strain Norway 4 to the Genus 'Desulfomicrobium'. Journal article.
Technical Resources, Inc., Gulf Breeze, FL.
B. R. S. Genthner, G. Mundfrom, and R. Devereux. c1994, 7p EPA/600/J-94/278
Contract EPA-68-03-3479
Pub. in Archives of Microbiology, v161 p215-219 1994. Prepared in cooperation with Environmental Research Lab., Gulf Breeze, FL. Microbial Ecology and Biotechnology. Sponsored by Environmental Protection Agency, Gulf Breeze, FL. Gulf Breeze Environmental Research Lab.

A sulfate-reducing bacterium, designated strain ESC1, was isolated and found to be a new species. Strain ESC1 is a strictly anaerobic, gram-negative, non-sporeforming, motile, short, round-ended rod often occurring in pairs. Of 31 fermentative substrates tested, only pyruvate was utilized. Sulfate enhanced growth with pyruvate and allowed growth with ethanol, lactate, formate and hydrogen. Both sulfate and thiosulfate were reduced. Lactate was incompletely oxidized to acetate and CO2. The strain was desulfoviridin negative. The G+C content is 59.9%. These data suggested placement of strain ESC1 in the genus Desulfomicrobium. Comparative 16S rRNA analysis showed that strain ESC1 shares 98% rRNA sequence similarity with Desulfomicrobium baculatum and Desulfovibrio desulfuricans strain Norway 4. The latter two strains shared greater than 99% 16S rRNA sequence similarity. Strain ESC1 has been designated as the new species Desulfomicrobium escambium.

Keywords: *Bacterial genome, *Taxonomy, 16S ribosomal RNA, Bacterial RNA, Oxidation, Reduction(Chemistry), Nucleic acid sequence homology, Substrate specificity, Culture media, Growth, Reprints, *Desulfomicrobium excambium, *Desulfovibrio desulfuricans.

PB94-191053/REB PC A02/MF A01
Field-Scale Testing of a Two-Stage Bioreactor for Removal of Creosote and Pentachlorophenol from Ground Water: Chemical and Biological Assessment. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
D. P. Middaugh, S. E. Lantz, C. S. Heard, and J. G. Mueller. c15 Nov 93, 10p EPA/600/J-94/279
Pub. in Archives of Environmental Contamination and Toxicology 26, p320-328 1994. Also pub. as Environmental Research Lab., Gulf Breeze, FL. rept. no. CONTRIB-889. See also PB94-191061. Prepared in cooperation with SBP Technologies, Inc., Gulf Breeze, FL.

A two-stage, field-scale bioreactor system was used to determine the efficacy of bioremediation of creosote- and pentachlorophenol (PCP)- contaminated ground water at the abandoned American Creosote Works (ACW) site in Pensacola, Florida. In separate 15-day runs of the field-scale (454L) system, bioreactor performance in the presence of specially-selected microbial inoculants was compared to that observed using non-specific biomass. Results obtained with specialty organisms in the first run of the field-scale bioreactor showed that, on average, 70.6% of polycyclic aromatic hydrocarbons (PAHs) and heterocycles were degraded. Only 36.9% of the pentachlorophenol (PCP) present was biodegraded. In the second run, microorganisms from an industrial waste water treatment facility averaged 51.0% biodegradation of PAHs and heterocycles. Degradaton of PCP was 81.0%, a value substantially higher than in the first run. Reductions in toxicity/teratogenicity were also observed for effluent from the second run of the field-scale bioreactor but the magnitude of toxicity reduction was less than in the first run.

Keywords: *Water pollution control, *Bioreactors, *Wood preservatives, *Superfund, Creosote, Phenols, Ground water, Water treatment, Remedial action, Hazardous materials, Field tests, Technology innovation, Polycyclic aromatic hydrocarbons, Pseudomonas, Toxicity, Reprints, PCP(Pentachlorophenol), Pensacola(Florida), SITE(Superfund Innovative Technology Evaluation).

PB94-191061/REB PC A03/MF A01
Field Scale Testing of a Hyperfiltration Unit for Removal of Creosote and Pentachlorophenol from Ground Water: Chemical and Biological Assessment. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
D. P. Middaugh, R. L. Thomas, S. E. Lantz, C. S. Heard, and J. G. Mueller. c1994, 12p EPA/600/J-94/280
Pub. in Archives of Environmental Contamination and Toxicology 26, p309-319 1994. Also pub. as Environmental Research Lab., Gulf Breeze, FL. rept. no. CONTRIB-888. See also PB94-191053. Prepared in cooperation with SBP Technologies, Inc., Gulf Breeze, FL.

Chemical analyses and biological response data were used to assess the efficacy of a field-scale hyperfiltration unit in the removal of polycyclic aromatic hydrocarbons (PAHs) and other organic compounds from creosote- and pentachlorophenol (PCP)-contaminated ground water recovered from the former American Creosote Works in Escambia County, Pensacola, Florida. The hyperfiltration unit consisted of 4 modules containing porous stainless steel tubes which were coated with a formed-in-place zirconium hydrous oxide-polyacrylic acid (ZOPA) membrane. A 5-fold concentration of the feedwater (80% volume reduction) with up to 97% removal of high molecular weight PAHs was achieved during pre-demonstration and field-demonstration runs of the hyperfiltration unit. Toxicological and teratogenic data for embryonic inland silversides, Menidia beryllina, indicated that 100, 10 and 1% solutions of the ground water sample used in the pre-demonstration run caused statistically significant ($p < or = 0.05$) biological responses when compared to controls. Permeates from both runs, diluted to 1%, met the pre-condition of non-toxic responses in 48h tests with Ceriodaphnia dubia. Meeting this requirement allowed for discharge of diluted permeate into the county's sanitary sewerage collector system.

Keywords: *Water pollution control, *Filtration, *Wood preservatives, *Superfund, Creosote, Phenols, Ground water, Water treatment, Polycyclic aromatic hydrocarbons, Remedial action, Hazardous materials, Field tests, Technology innovation, Toxicity, Reprints, PCP(Pentachlorophenol), Hyperfiltration, Escambia County(Florida), SITE(Superfund Innovative Technology Evaluation), Menidia beryllina, Ceriodaphnia dubia.

PB94-191079/REB PC **A02/MF A01**
Predicting Chronic Lethality of Chemicals to Fishes from Acute Toxicity Test Data: Concepts and Linear Regression Analysis. (Hazard Assessment). Journal article.
Environmental Research Lab., Gulf Breeze, FL.
F. L. Mayer, G. F. Krause, D. R. Buckler, M. R. Ellersieck, and G. Lee. c1994, 9p EPA/600/J-94/281
Pub. in Environmental Toxicology and Chemistry, v13 n4 p671-678 1994. Also pub. as Environmental Researach Lab., Gulf Breeze, FL. rept. no. CONTRIB-764. Prepared in cooperation with Missouri Agricultural Experiment Station, Columbia. and National Fisheries Contaminant Research Center, Columbia, MO.

A comprehensive approach to predicting chronic toxicity from acute toxicity data was developed in which simultaneous consideration is given to concentration, degree of response, and time course of effect. A consistent endpoint (lethality) and degree of response (0%) were used to compare acute and chronic tests. Predicted no-effect concentrations were highly accurate 92% of the time (within a factor of 2.0 of the limits of the maximum acceptable toxicant concentrations for lethality) and did not vary by more than a factor of 4.8 when the technique was applied to a data base of 18 chemicals and 7 fish species. Growth effects can be predicted from chronic lethality, but reproductive effects should not be.

Keywords: *Toxicity, *Fishes, *Chronic exposure, *Regression analysis, Acute exposure, Concentration(Composition), Dose-response relationships, Comparative evaluations, Organic compounds, Lethal dosage, Growth, Predictions, Estimates, Reprints, AF(Application factor), ACR(Acute-to-chronic ratio), MATC(Maximum acceptable toxicant concentration), LC50(Lethal concentration).

PB94-191087/REB PC **A02/MF A01**
Environmental Research Lab., Gulf Breeze, FL.
Effects of Contaminants from Chromated Copper Arsenate-Treated Lumber on Benthos. Journal article.
Rutgers - The State Univ., Newark, NJ. Dept. of Biological Sciences.
J. S. Weis, and P. Weis. c1994, 8p EPA/600/J-94/282
Pub. in Archives of Environmental Contamination and Toxicology, v26 p103-109 1994. Also pub. as Environmental Research Lab., Gulf Breeze, FL. rept. no. GULF BREEZE CONTRIB-798. Prepared in cooperation with University of Medicine and Dentistry of New Jersey, Newark. Dept. of Anatomy. Sponsored by Environmental Research Lab., Gulf Breeze, FL.

The fine particle fraction of sediments collected near bulkheads made of CCA-treated wood had elevated levels of the three metals. These decreased with distance from the bulkhead. Although the concentrations in the fine particle fraction of these sediments were quite high, the sediments had less than 1% fine particles, being primarily sand. Metal levels in benthic organisms were also elevated adjacent to the bulkhead and decreased with distance. However, tests with the sediments adjacent to the bulkhead did not reveal consistent toxicity, probably because the overall concentrations of metals were low. On the other hand, benthic community analysis revealed that there were reduced species numbers, total numbers of organisms, and diversity in the sediments adjacent to the bulkheads compared to reference sediments with lower metal concentrations.

Keywords: *Wood preservatives, *Sediments, *Toxicity, *Water pollution sources, Benthos, Concentration(Composition), Chromium, Copper, Arsenic, Bulkheads, Ecosystems, Coastal structures, Environmental exposure, Abundance, Biological availability, Reprints, *CCA(Chromated copper arsenate), *Chromated copper arsenate, Neanthes succinea, Leptosynapta inhaerens, Pensacola Beach(Florida).

PB94-191095/REB PC **A02/MF A01**
Fish Intersexuality as Indicator of Environmental Stress: Monitoring Fish Reproductive Systems Can Serve to Alert Humans to Potential Harm. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
S. A. Bortone, and W. P. Davis. 1994, 10p EPA/600/J-94/283
Pub. in Bioscience, v44 n3 p165-172 Mar 94. Prepared in cooperation with University of West Florida, Pensacola. Dept. of Ecology and Evolutionary Biology..

Intersexuality in the form of masculinization has been observed among poeciliid fishes (i.e., mosquitofish, least killifish, and sailfin molly) from streams receiving paper mill effluent (i.e., draft mill effluent). The degree of masculinization is related to the relative concentration and duration of exposure to kraft mill effluent (KME). Compounds associated with KME apparently act as endocrine disruptors to the normal expression of secondary sex characters. Monitoring intersexuality in these fishes may serve as a useful sentinel to detect endocrine disruptors in the environment.

Keywords: *Fish physiology, *Sex hormones, *Water pollution effects(Animals), Biological indicators, Industrial wastes, Sulfate pulping, Paper mills, Concentration(Composition), Environmental exposure, Fish reproduction, Effluents, Livebearers, Reprints, KME(Draft mill effluent), Intersexuality, Masculinization, Arrhenoidy, Gambusia affinis, Heterandria formosa, Poecilia latipinna.

PB94-191103/REB PC **A03/MF A01**
Environmental Research Lab., Athens, GA. Office of Research and Development.
Estimation of Ionization Constants of Azo Dyes and Related Aromatic Amines: Environmental Implication. Journal article.
Georgia Univ., Athens.
S. H. Hilal, L. A. Carreira, G. L. Baughman, S. W. Karickhoff, and C. M. Melton. 1994, 12p EPA/600/J-94/284
Grant EPA-R-815415
Pub. in Jnl. of Physical Oraganic Chemistry, v7 n3 p122-141 Mar 94. Sponsored by Environmental Research Lab., Athens, GA. Office of Research and Development.

Ionization constants for 214 dye molecules were calculated from molecular structures using the chemical reactivity models developed in SPARC (SPARC Performs Automated Reasoning in Chemistry). These models used fundamental chemical structure theory to predict chemical reactivities for a wide range of organic molecules from molecular structure. The energy differences between the protonated state and the unprotonated state for a molecule of interest are factored into mechanistic components including the electrostatic and resonance contributions and any additional contributions to these energy differences.

Keywords: *Dyes, *Chemical reactivity, *Artificial intelligence, *Ionization, Molecular structure, Aromatic compounds, Amines, Physicochemical properties, Environmental exposure, Mathematical models, Rates(Per time), Tables(Data), *SPARC(SPARC Performs Automated Reasoning in Chemistry), *SPARC Performs Automated Reasoning in Chemistry, Ionization constants, Rate constants.

PB94-191111/REB PC **A02/MF A01**
Environmental Research Lab., Athens, GA.
Photolysis of Smoke Dyes on Soils. Journal article.
Technology Applications, Inc., Athens, GA.
R. L. Adams, E. J. Weber, and G. L. Baughman. c1994, 9p EPA/600/J-94/285
Contract EPA-68-C1-0024
Pub. in Environmental Toxicology and Chemistry, v13 n6 p889-896 Jun 94. Sponsored by Environmental Research Lab., Athens, GA. and Department of the Army, Washington, DC.

Photolysis of an azo, a quinophthalone, and several anthraquinone smoke dyes was studied on soil surfaces. Initially, rapid photodegradation of each dye occurred, followed by a period of much slower rate of loss, indicating that the remaining fraction of the dye was photochemically protected. The average mean depths of photolysis ranged from 0.33 to 0.68 mm for outdoor studies and from 0.42 to 0.73 for lab studies. The magnitude of the mean depth of photolysis suggests that photo-degradation of the dyes occurs through indirect photochemical processes. Photolysis products for only two of the dyes could be identified. Photolysis of Disperse Red 9 resulted in the formation of 1-aminoantraquinone, whereas Solvent Yellow 33 photodegraded to give 2-carboxyquinoline and phthalic anhydride. Reaction mechanisms involving sensitized photo-oxidation by singlet oxygen are consistent with the formation of these reaction products.

Keywords: *Dyes, *Photolysis, *Soil analysis, *Smoke ammunition, Colored smoke, Azo dyes, Anthraquinones, Oxygen, Photochemical reactions, Reaction kinetics, Transport properties, Grenades, Soil pollution, Reprints, Quinophthalone.

PB94-191129/REB PC **A02/MF A01**
Environmental Monitoring Systems Lab., Las Vegas, NV.
Evaluation of Five Commercial Immunoassay Data Analysis Software Systems. Journal article.
Lockheed Environmental Systems and Technologies Co., Las Vegas, NV.
R. W. Gerlach, R. J. White, S. N. Deming, J. A. Palasota, and J. M. Van Emon. c1993, 10p EPA/600/J-94/286
Contract EPA-68-CO-0049, Grant EPA-R-817522
Pub. in Analytical Biochemistry 212, p185-193 1993. Prepared in cooperation with Houston Univ., TX. Dept. of Chemistry. Sponsored by Environmental Monitoring Systems Lab., Las Vegas, NV.

An evaluation of five commercial software systems used for immunoassay data analysis revealed numerous deficiencies. Often, the utility of statistical output was compromised by poor documentation. Several data sets were run through each system using a four-parameter calibration function, and the results were compared to those from an independent method. Comparable results between systems were obtained, but often several attempts at analysis were necessary. The evaluation process revealed that it is difficult to monitor the numerous options available on these types of programs, and that incorrect results could easily be obtained if comparison analyses were not used. Recommendations for improved software functionality and for using the four-parameter calibration model are presented. (Copyright (c) 1993 Academic Press, Inc.)

Keywords: *Immunoassay, *Computer applications, *Data analysis, *Computer software, Performance evaluation, Immunoenzyme techniques, Radioimmunoassay, US EPA, Reprints, Environmental Protection Agency.

PB94-191137/REB PC **A01/MF A01**
Performance-Based Methods for the EPA's Regulatory Programs. Journal article.
Environmental Monitoring Systems Lab., Las Vegas, NV.
L. R. Williams. c1992, 5p EPA/600/J-94/287
Pub. in Environmental Testing and Analysis, p36, 38-39 and 66, 1992.

Whether called 'performance-based methods' (emphasizing the products) or 'criteria-based methods acceptance' (the process), the topic currently is a hot one for the U.S. EPA. The EPA's Environmental Monitoring Management Council (EMMC) is considering approaches to pilot or implement the process in conjunction with a comprehensive strategy to reduce the confusing array of similar measurement methods adopted under various regulatory programs. This was the topic of a special session at the EPA's annual Solid Waste Testing and QA Symposium in July 1992. In September 1992, the Sixth Annual Interagency Workgroup Meetings on QA for Environmental Measurements (QAEM) featured the topic as one of its four major sessions.

Keywords: *Solid waste management, *Pollution sampling, *Measuring methods, Environmental monitoring, Quality assurance, Quality control, Pollution regulations, Decision making, Reprints, Performance-based methods, Criteria-based methods, Environmental measurements, Regulatory programs.

PB94-191145/REB PC **A02/MF A01**
Environmental Monitoring Systems Lab., Las Vegas, NV.
Determination of Metals in Solid Samples by Complexation: Supercritical Fluid Extraction and Gas Chromatography. Atomic Emission Detection. Journal article.
Midwest Research Inst., Mountain View, CA. California Operations.
Y. Liu, V. Lopez-Avila, M. Alcaraz, W. F. Beckert, and E. M. Heithmar. Aug 93, 8p EPA/600/J-94/288
Contract EPA-68-C1-0029
Pub. in Journal of Chromatographic Science, v31 p310-316 August 1993. Sponsored by Environmental Monitoring Systems Lab., Las Vegas, NV.

Complexation followed by Supercritical fluid extraction (SFE) has been investigated for the extraction of

Cu(2+), Co(2+), and Zn(2+) ions from solid samples. Lithium bis(trifluoroethyl)dithiocarbamate (FDDC) was used as the complexing agent in the study. The metal-FDDC complexes in the SFE extracts were determined by gas chromatography (GC) with atomic emission detection. The recoveries of Cu(2+), Co(2+), Cd(2+), and Zn(2+) ions from filter paper, sand, and silica gel ranged from 70 to 100 percent. Relatively high concentrations of complexed Cu, Co, Cd, and Zn found in system blanks obtained with a stainless steel SFE system prompted the authors to modify the apparatus by using nonmetalic polyetheretherketone (PEEK) components.

Keywords: *Chromatography, *Extraction, *Metal complexes, *Ions, Inorganic compounds, Copper, Cobalt, Cadmium, Zinc, Complex compounds, Gas chromatography, Soil pollution, Remedial action, Toxic substances, Reprints, *SFE(Supercritical fluid extraction), *Supercritical fluid extraction, In situ analysis, FDDC(Bis(trifluoroethyl)dithiocarbamate).

PB94-191152/REB PC **A01**/MF **A01**
Department of Energy, Washington, DC.
Tritium in Surface Waters of the Western United States. Journal article.
Environmental Monitoring Systems Lab., Las Vegas, NV.
R. W. Holloway. 16 Apr 93, 5p EPA/600/J-94/289
Contract DE-AI08-91NV0963
Pub. in Radiochimica Acta, v62 p217-220 1993. Sponsored by Department of Energy, Washington, DC.

The tritium content of streams, lakes and springs in Alaska, Nevada and Colorado was measured over the last decade. The tritium content of these waters has declined approximately 50% to a present maximum of up to 70 pCi/l. This decline is a continuation of the decreasing trend that started shortly after the atmospheric nuclear test ban treaty of the early 1960s. The present concentration of tritium in these natural waters is approaching the concentration expected from the natural production of tritium in the environment. (Copyright (c) 1993 R. Oldenbourg Verlag.)

Keywords: *Surface waters, *Tritium, *Radioecological concentration, Alaska, Nevada, Colorado, Fallout deposits, Natural radioactivity, Nuclear explosions, Atmospheric explosions, Lakes, Rivers, Radionuclide migration, Environmental transport, Reprints.

PB94-191160/REB PC **A03**/MF **A01**
Corvallis Environmental Research Lab., OR.
Spatial Patterns of Soil Organic Carbon in the Contiguous United States. Journal article.
ManTech Environmental Technology, Inc., Corvallis, OR. Environmental Research Lab.
J. S. Kern. 1994, 17p EPA/600/J-94/290
Contract EPA-68-C8-0006
Pub. in Soil Sciences Society of American Jnl., v58 p439-455 1994. Sponsored by Corvallis Environmental Research Lab., OR.

Spatial patterns and total amounts of soil organic C (SOC) are important data for studies of soil productivity, soil hydraulic properties, and the cycling of C-based greenhouse gases. The study evaluated several approaches for characterizing SOC to determine their relative merits. The first approach entailed grouping data from global pedon SOC database by type of ecosystem, resulting in a total of 78.0 Pg of C to 1-m depth for the contiguous USA. In a second approach, a pedon database was aggregated using soil taxonomy, giving a total for the contiguous USA of 80.7 + or - 16.6 Pg of C when the great group SOC was spatially distributed with Major Land Resource Areas (MLRAs) using the 1982 National Resource Inventory (NRI) and the Soil Interpretation Record databases. The third approach used pedon and spatial data from a global soil map grouped by soil unit that resulted in 84.5 Pg of C for the contiguous USA.

Keywords: *Investigations, *Soil properties, *Organic matter, *Carbon, *United States, Global, Ecosystems, Greenhouse gases, Taxonomy, Hydraulics, Maps, Spatial distribution, Reprints.

PB94-191178/REB PC **A02**/MF **A01**
Corvallis Environmental Research Lab., OR.
Iron Nutrition Influence on Cadmium Accumulation by 'Arabidopsis thaliana' (L.) Heynh. Journal article.
ManTech Environmental Technology, Inc., Corvallis, OR. Environmental Research Lab.
K. D. Rodecap, D. T. Tingey, and E. H. Lee. 1994, 8p EPA/600/J-94/291
Contract EPA-68-C8-0006
Pub. in Jnl. of Environmental Quality, v23 n2 p239-246 Mar-Apr 94. Sponsored by Corvallis Environmental Research Lab., OR.

Greenhouse experiments were conducted to determine whether Arabidopsis thaliana (L.) Heynh., a putative Fe-efficient species, accumulated higher concentrations of Cd from a sparingly soluble Cd source (cadmium dihydrogen phosphate) when growing in Fe-deficient rather than in Fe-sufficient conditions. Analysis of the uptake of other elements by Arabidopsis suggests that the greater accumulation of Cd by plants in the Fe-deficient treatment may be a consequence of the species' Fe efficiency mechanisms. Our results support the hypothesis that uptake of toxic elements by Fe-efficient species can be enhanced when the plants are growing in Fe-deficient soils.

Keywords: *Plant nutrition, *Iron, *Cadmium, Concentration(Composition), Accumulation, Plant metabolism, Biological effects, Uptake, Toxic substances, Soil chemistry, Reprints, Arabidopsis thaliana (L) Heynh, Iron efficient plants, Cadmium dihydrogen phosphate, Cruciferae.

PB94-191186/REB PC **A03**/MF **A01**
Corvallis Environmental Research Lab., OR.
Comparison of Variance Estimators of the Horvitz-Thompson Estimator for Randomized Variable Probability Systematic Sampling. Journal article.
State Univ. of New York Coll. of Environmental Science and Forestry, Syracuse.
S. V. Stehman, and W. S. Overton. Mar 94, 14p EPA/600/J-94/292
Grants EPA-R-815422, EPA-R-816721
Pub. in Jnl. of the American Statistical Association, v89 n425 p30-43 Mar 94. Prepared in cooperation with Oregon State Univ., Corvallis. Sponsored by Corvallis Environmental Research Lab., OR.

Two large-scale environmental surveys, the National Stream Survey (NSS) and the Environmental Protection Agency's proposed Environmental Monitoring and Assessment Program (EMAP), motivated investigation of estimators of the variance of the Horvitz-Thompson estimator under variable probability systematic sampling. As is common in practice, survey objectives required special design and analysis features that strongly influenced selection of a variance estimator. In this article we investigate properties of the variance estimator used in the NSS and proposed for some applications in EMAP. (Copyright (c) 1994 American Statistical Association.)

Keywords: *Environmental surveys, *Sampling, *Statistical analysis, Streams, Water pollution, Variance(Statistics), Comparison, Probability theory, Study estimates, Empirical equations, Population(Statistics), Reprints, *National Stream Surveys, *Environmental Monitoring and Assessment Program, *Horvitz-Thompson estimation, Yates-Grundy estimation.

PB94-191194/REB PC **A02**/MF **A01**
Corvallis Environmental Research Lab., OR.
Dynamic Standardization of Tree-Ring Series. Journal article.
Department of Fisheries and Oceans, St. John's (Newfoundland). Science Branch.
W. G. Warren, and D. C. LeBlanc. 1990, 10p EPA/600/J-94/293
Grant USDA-84-CSRS-2-2393
Pub. in Canadian Jnl. of Forest Research, v20 p1422-1431 1990. Prepared in cooperation with Butler Univ., Indianapolis, IN. Holcomb Research Inst. Sponsored by Corvallis Environmental Research Lab., OR. and Cooperative State Research Service, Washington, DC.

The compound growth function of Warren (W. G. Warren, 1980. Tree-Ring Bull. 40:35-44) represented an attempt to develop a model-based approach that standardized tree ring width sequences and was more flexible than the monotonic functions that were then commonly used. While the idea was conceptually attractive, operational difficulties of fitting hindered its use as a practical tool. The paper describes the modifications, and what are believed to be improvements, that have recently been made to the method, and which have led to an interactive computer program by which the fitting of the model to any sequence of ring widths may be readily accomplished. The approach also permits the location of both positive and negative departures from a trend (releases and suppressions, respectively) and estimation of the rate of rung-width increase or decrease. For illustration it has been applied to a sample of red spruce (Picea rubens Sarg.) cores from Whiteface Mountain, New York.

Keywords: *Dendrochronology, *Growth, *Mathematical models, Width, Improvement, Least squares method, Computer programs, Trends, Disturbances, Standardization, Age, Statistical analysis, Canada, Sampling, Histograms, Reprints, Tree ring growth, Picea rubens, Red Spruce trees.

PB94-191699/REB PC **A05**/MF **A01**
Alternative Control Techniques Document: Automobile Refinishing. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Apr 94, 84p EPA/453/R-94/031
See also PB89-148282.

The document provides information on alternative control techniques (ACT) for volatile organic compound (VOC) emissions from automobile refinishing. The document contains information on emissions, controls, control options, and costs that States can use in developing rules. The document presents options only, and makes no recommendations.

Keywords: *Air pollution control, *Spray painting, *Repair shops, Surface coatings, Paints, Automobile bodies, Alternatives, Substitutes, Emissions, Environmental impacts, Economic impacts, Pollution regulations, Air pollution standards, Standards compliance, Cost analysis, ACT(Alternative Control Techniques), Volatile organic compounds, Automotive refinishing.

PB94-191806/REB PC **A99**/MF **A06**
Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.
Regional Inventory for Critical Natural Areas, Wetland Ecosystems, and Endangered Species Habitats of the Albemarle-Pamlico Estuarine Region. Phase 3 Report. Final rept.
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
I. K. Smith, H. E. LeGrand, S. P. Hall, Z. E. Murrell, and C. W. Nordman. Feb 93, 676p APES-92-21
See also PB94-184041. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

The rapid development of North Carolina's Coastal, Tidewater, and Piedmont regions has caused an urgent need to protect significant natural resources in this part of the state. However, before protection of natural resources and natural areas can be accomplished, it is important to have background information about these resources, such as locations of endangered and rare species and delineation and description of significant natural areas. The North Carolina Nature Preserves Act delegates responsibilities to the North Carolina Natural Heritage Program for maintaining the statewide inventory of important natural areas and rare species habitats. This report describes the natural communities, aquatic habitats, endangered and rare species, and geomorphology of the 17-county A/P III study area. It also provides site descriptions and maps of each of the 130 significant natural areas in this region.

Keywords: *Ecosystems, *Natural resources management, *Environmental protection, *Coastal regions, *Site surveys, *Regional analysis, Pollution sources, North Carolina, Estuaries, Virginia, Albemarle Sound, Pamlico Sound, Forests, Water quality, Land management, Surface waters, Endangered species, Inventories, Habitats, Plants(Botany), Land use, Animals, Wetlands.

PB94-192630/REB PC **A04**/MF **A01**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.

Comparative Effects of Water-Column Nitrate Enrichment on Eelgrass, Shoal Grass, and Widgeon Grass. Final rept.
North Carolina State Univ., Raleigh. Dept. of Botany.
J. M. Burkholder. Aug 93, 65p APES-93-09
Contract APES-PR-50178
See also PB85-179471 and PB93-196665. Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.

The objectives of this study were to work toward determining the threshold range of water-column nitrate enrichment that promotes destruction of eelgrass (Zostera marina L.), and to examine whether nitrate enrichment is toxic to two other submersed aquatic marine/estuarine plants, shoal grass (the seagrass Halodule wrightii Ascher) and widgeon grass (Ruppia maritima L.). These species are of interest for potential use in re-establishing beds of submersed aquatic vegetation within areas where eelgrass habitat loss has been correlated with nutrient enrichment or other factors associated with cultural eutrophication and coastal development. This research indicates that Halodule wrightii or Ruppia maritima could be established by transplanting efforts as a management strategy in nitrate-enriched waters where eelgrass meadows have disappeared. Unlike Zostera marina, these plants apparently have physiological mechanisms to more efficiently process and control consumed nitrate; indeed, R. maritima seems to have derived a competitive advantage in nitrate-enriched conditions.

Keywords: *North Carolina, *Water quality, *Grasses, Aquatic plants, Widgeon grass, Environmental issues, Comparative evaluation, Coasts, Nutrients, Eutrophication, Ecosystems, Nitrates, Water pollution effects, Eelgrass, Shoal grass, Zostera marina, Halodule wrightii, Ruppia maritima, Mesocosms, Coastal development.

PB94-192648/REB PC **A20**/MF **A04**
National Emission Standards for Hazardous Air Pollutants for Source Categories: Aerospace Manufacturing and Rework - Background Information for Proposed Standards. Draft rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
B. C. Jordan. May 94, 464p EPA/453/R-94/036A

The proposed rule would limit organic hazardous air pollutant (HAP) emissions from the following sources at aerospace facilities: cleaning operations, primer application operations, topcoat application operations, depainting operations, chemical milling maskant application operations, and the handling and storage of waste. The proposed rule would also limit inorganic HAP emissions from primer, topcoat, and depainting operations.

Keywords: *Air pollution standards, *Hazardous materials, *Aerospace industry, Fugitive emissions, Industrial wastes, Organic solvents, Cleaning agents, Manufacturing, Regulations, Environmental impacts, Economic analysis, *HAP(Hazardous air pollutant), Rework operations, VOCs(Volatile organic compounds).

PB94-192713/REB PC **A03**/MF **A01**
In Situ Technologies for Remediation of Organic Chemicals-Contaminated Sites: A Critical Review. Journal article.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
C. Y. Fan, J. S. Farlow, and A. N. Tafuri. Jun 94, 19p EPA/600/A-94/143
Pub. in Proceedings of the Air and Waste Management Association Annual Meeting and Exhibition (87th), Cincinnati, OH., June 19-24, 1994, p1-16. See also PB92-114552.

The paper identifies the basic site assessment information required to define and understand the release incident and the organic chemicals released in the subsurface environment. It evaluates various remediation technologies, based on the characteristics of concerned pollutants and site geologic properties, that may be applicable to cleaning up organic chemicals from surface spills or leaking underground storage tanks. A systematic discussion of organic chemicals transport in subsurface environment enables the user to: develop a conceptual understanding of site conditions before initiation of extensive field investigation, define remediation goals, evaluate technologies capable of meeting remediation goals, and identify monitoring requirements during and after remediation.

Keywords: *Ground water, *Soil contamination, *Land pollution control, *Water pollution control, Underground storage, Storage tanks, Leakage, Hydrocarbons, Petroleum products, Chemical compounds, Environmental transport, Remediation, Soil treatment, In situ processing, Biodegradation, Zone of saturation, Vaodse zone, Technology innovation, Reprints, NAPL(NonAqueous Phase Liquids), Volatile organic compounds, Biorestoration.

PB94-192721/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
IAPCS: A Computer Model That Evaluates Pollution Control Systems for Utility Boilers. Journal article Aug 91-Dec 92.
Radian Corp., Research Triangle Park, NC.
N. Kaplan, E. Soderberg, D. Pickett, and J. Meyers. cJun 94, 11p EPA/600/J-94/305
Contract EPA-68-D1-0031
Pub. in Jnl. of Air and Waste Management Association, v44 p773-780 Jun 94. See also PB85-243111, PB87-127759, PB87-127767, PB87-127775, PB90-187261, PB91-133314 and PB91-506477. Prepared in cooperation with Detroit Edison Co., MI. and New York State Electric and Gas Corp., Binghamton.

The paper discusses the use of the Integrated Air Pollution Control System (IAPCS) computer model for estimating sulfur dioxide (SO2) and nitrogen oxide (NOx) control system costs for real-world utility plants. The IAPCS can perform cost and performance estimates of 15 air pollution control systems as applied to coal-fired utility boilers. Estimates can also be made for particulate control systems. This personal-computer-based interactive model allows the user to specify boiler, coal, and control system operating parameters. Detroit Edison and New York State Electric and Gas Company, each provided the boiler and coal specifications for three of their existing or proposed units. The IAPCS model was used to provide capital costs, annual operating and maintenance costs, levelized annual revenue required, and pollution reduction estimates for each control system estimated. The model is a tool that utilities can use to evaluate compliance options for meeting the regulatory requirements of the Clean Air Act Amendments of 1990, in addition to options for meeting state regulations. It can also be used by legislators and their staffs, public utilities commmissions, and architectural/engineering companies for preliminary control system design and budget estimates.

Keywords: *Computerized simulation, *Boilers, *Air pollution control, *Coal fired power plants, Reprints, Sulfur dioxide, Nitrogen oxides, Particulates, Cost analysis, Performance evaluation, Study estimates, Compliance, Clean Air Acts, Design criteria, *Integrated Air Pollution Control System Model, Flue gas desulfurization.

PB94-192739/REB PC **A02**/MF **A01**
PC-Based MIE Scattering Program for Theoretical Investigations of the Optical Properties of Atmospheric Aerosols as a Function of Composition and Relative Humidity. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
W. E. Wilson, and P. C. Reist. c1994, 10p EPA/600/J-94/306
Pub. in Atmospheric Environment, v28 n5 p803-809 1994. See also AD-A010 336 and AD-A014 162. Prepared in cooperation with North Carolina Univ. at Chapel Hill. Dept. of Environmental Sciences and Engineering.

Over the past decade there has been interest in exploring possible relationships between atmospheric visibility (extinction of light) and the chemical form of aerosols in the atmosphere. A user-friendly, menu-driven program for the personal computer (AT 286 with math co-processor or higher) has been developed which both calculates the equilibrium composition of the atmospheric aerosol of specified compositions (including particle-bound water as a function of relative humidity) and also applies optical parameters from these end-products to estimating scattering and extinction. Presented here is a description of such a program, with a discussion of the assumptions and approaches implicit in it. The program appears to give results which are similar to results reported by others.

Keywords: *Atmospheric chemistry, *Atmospheric models, *Computerized simulation, *Optical properties, Reprints, Air pollution monitoring, Atmospheric composition, Concentration(Composition), Humidity, Light scattering, Aerosols, Computer programs, MARS computer program.

PB94-192747/REB PC **A03**/MF **A01**
Comparison of Sulfur Measurements from a Regional Fine Particle Network with Concurrent Acid Modes Network Results. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
R. L. Bennett, L. Stockburger, and H. M. Barnes. 1994, 14p EPA/600/J-94/307
Pub. in Atmospheric Environment, v28 n3 p409-419 1994.

The Fine Particle Network (FPN), a system of fine particle (less than 2.5 micrometers) samplers, was operated at 41 sites selected from the Enviromental Protection Agency Acid MODES program during the two year period in 1988-90. The 24-hour sample results included fine particle mass and the most predominant chemical element concentrations determined by wavelength dispersive x-ray fluorescence analysis. Statistical summaries of the fine mass and sulfur concentrations by site and season were prepared. The availability of simultaneous particulate sulfate measurements from independent collection and analytical procedures provided an opportunity to examine their agreement and provide a more reliable data base for evaluation of regional particulate models and estimation of contribution to urban aerosol concentration.

Keywords: *Acid rain, *Atmospheric models, *Air pollution monitoring, *Sulfur dioxide, Sulfates, Particulates, Aerosols, Seasonal variations, X ray fluorescence, Concentration(Composition), Fines, Sites, Spatial variations, Rural areas, Reprints, *MODES(Model Operational and Diagnostic Evaluation Study), *Model Operational and Diagnostic Evaluation Study, *FPN(Fine Particle Network), *Fine Particle Network, Regional Acid Deposition Model, Eastern Region(United States).

PB94-192754/REB PC **A03**/MF **A01**
Transport, Radiative, and Dynamical Effects of the Antarctic Ozone Hole: A GFDL 'SKYHI' Model Experiment. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
J. D. Mahlman, J. P. Pinto, and L. J. Umscheid. 15 Feb 94, 24p EPA/600/J-94/308
Pub. in Jnl. of the Atmospheric Sciences, v15 n4 15 Feb 94. See also PB88-168240. Prepared in cooperation with National Oceanic and Atmospheric Administration, Princeton, NJ. Geophysical Fluid Dynamics Lab.

The Geophysical Fluid Dynamics Laboratory 'SKYHI' general circulation model has been used to simulate the effect of the Antarctic 'ozone hole' phenomenon on the radiative and dynamical environment of the lower stratosphere. Both the polar ozone destruction and photochemical restoration chemistries are calculated by parameterized simplifications of the still uncertain, more complete chemical processes. The modeled total column ozone depletions are near 25% in spring over Antarctica, with 1% depletion reaching equatorial latitudes by the end of the 4 1/2 year model experiment. In the lower stratosphere, ozone reductions of 5% reach to the equator. Large coolings of about 8 C are simulated in the lower stratosphere over Antarctica in late spring, while a general cooling of about 1-1.5 C is present throughout the Southern Hemisphere lower stratosphere. The model atmosphere experiences a long-term positive temperature-chemical feedback because significant ozone reductions carry over into the next winter. The overall temperature response to the reduced ozone is essentially radiative in character. However, substantial dynamical changes are induced by the ozone hole effect. The Antarctic middle stratosphere in late spring warms by about 6 C over Antarctica and the lower mid-latitude stratosphere warms by approximately one degree. These warming spots are produced mainly by an increased residual circulation intensity.

Keywords: *Ozone depletion, *Atmospheric models, *Antarctic regions, Simulation, Radiative heat transfer,

Atmospheric temperature, Atmospheric chemistry, Annual variations, Southern hemisphere, Atmospheric circulation, Meteorological charts, Reprints.

PB94-192762/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Vechicle-Related Hydrocarbon Source Compositions from Ambient Data: The GRACE/SAFER Method. Journal article.
University of Southern California, Los Angeles. Environmental Engineering Program.
R. C. Henry, C. W. Lewis, and J. F. Collins. c1994, 13p EPA/600/J-94/309
Grant EPA-R-818410
Pub. in Environmental Science and Technology, v28 n5 p823-831 1994. See also PB92-220656. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The composition of three volatile hydrocarbon sources (emissions from vehicles in motion, evaporation of whole gasoline, and gasoline headspace vapor) have been derived from 550 ambient, hourly concentration measurements of 37 C2-C9 volatile organic compounds (VOC). The source compositions were obtained by a novel combination of graphical analysis and multivariate receptor modeling methodologies: GRACE (Graphical Ratio Analysis for Composition Estimates) and SAFER (Source Apportionment by Factors with Explicit Restrictions). For the relatively unreactive hydrocarbon species, the ambient-derived source compositions were in good agreement with direct source measurements made in Atlanta concurrent with the ambient measurements. The prominence of the whole gasoline profile in the ambient data was an unexpected result.

Keywords: *Hydrocarbons, *Air pollution sampling, *Chemical composition, Reprints, Air pollution dispersion, Environmental transport, Gasoline vapors, Evaporative emissions, Exhaust emissions, Evaporative emission measurement, Exhaust emission measurement, Gas chromatography, Air pollution monitoring, Air pollution sources, Vehicle air pollution, Multivariate analysis, Volatile organic compounds, GRACE(Graphical Ratio Analysis for Composition Estimates), SAFER(Source Apportionment by Factors with Explicit Restrictions), Graphical analysis.

PB94-192770/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Dependencies and Sensitivity of Tropospheric Oxidants to Precursor Concentrations over the Northeast United States: A Model Study. Journal article Apr 92-May 93.
North Carolina Supercomputing Center, Research Triangle Park, NC.
R. Mathur, K. L. Schere, and A. Nathan. 20 May 94, 21p EPA/600/J-94/310
Grant EPA-R-816496
Pub. in Jnl. of Geophysical Research, v99 nD5 p10,535-10,552 20 May 94. See also PB89-194252, PB91-119669 and PB83-207688. Prepared in cooperation with National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div. and Computer Sciences Corp., Research Triangle Park, NC.

Several important issues related to the distribution and production of photochemical species are examined through an analysis of results obtained from applications of a comprehensive three-dimensional regional scale photochemical model over the northeast United States. The Regional Oxidant Model (ROM) is used to simulate the response of various photochemical species to specific anthropogenic emissions strategies involving NOx and hydrocarbon reductions for an episodic period during July 1988. Domain and temporal averages of predicted concentrations are examined for various species. Their relative influence on oxidant chemistry over the modeled domain is investigated. Further, spatial distributions of Ozone (O3) with respect to those of NOx, NOy, and hydrocarbons over the modeled domain are examined and the variations in O3 levels for different chemical regimes classified by characteristic NOx/ROG and NOx/NOy ratios are investigated. The relative benefits of reductions in NOx and hydrocarbon emissions on predicted O3 levels are also examined. In general, for this modeled domain, reductions in NOx emissions with or without reductions in hydrocarbon emissions have more impact on reducing predicted O3 levels compared to reductions only in hydrocarbon emissions.

Keywords: *Atmospheric models, *Troposphere, *Photochemical reactions, Ozone, Chemical composition, Periodic variations, Concentration(Composition), Nitrogen oxides, Air pollution control, Emission, Sources, Transport properties, Hydrocarbons, Reprints, ROM(Regional oxidant model), Northeast United States.

PB94-192788/REB PC **A03/MF A01**
Effect of Specimen Size, Shape, and Orientation on Dry Deposition to Galvanized Steel Surfaces. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
J. W. Spence, F. W. Lipfert, and S. Katz. 12 Apr 93, 11p EPA/600/J-94/311
Pub. in Atmospheric Environment, v27A n15 p2327-2336 1993. See also PB89-181259. Prepared in cooperation with Environmental Consultant, Northport, NY., ManTech Environmental Technology, Inc., Research Triangle Park, NC., and State Univ. of New York at Buffalo.

An analysis is presented of the variability in chemical composition of soluble corrosion products on galvanized steel specimens exposed at Research Triangle Park, NC, in the absence of natural precipitation. The specimens varied in size, shape, orientation angle, and previous exposure history. The soluble corrosion products were assumed to represent the effects of dry deposition of airborne substances, which were deduced to include SO2, NOy (presumed HNO3), Cl(-) (presumably HCl), and Ca(+2) (presumably from coarse particles), based on statistical analysis of their variability in relation to atmospheric conditions. The most important specimen characteristic was previous exposure history. Deposition of gases was dependent upon surface conditions, wind speed, and temperature, and to a lesser extent orientation angle. Depositon of particles was dependent upon specimen surface orientation. Soluble zinc loss varied with Reynolds number to the -0.2 power even though Reynolds numbers based on average wind speeds were well below those classically expected to produce turbulent flow.

Keywords: *Corrosion products, *Air pollution effects(Materials), *Deposition, *Galvanized materials, *Steels, Dry methods, Exposure, Environmental transport, Wind velocity, Surface chemistry, Environmental effects, Atmospheric temperature, Reprints.

PB94-192796/REB PC **A02/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Influence of Oxygenated Fuels on the Emissions from Three Pre-1985 Light-Duty Passenger Vehicles. Journal article.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
F. D. Stump, K. T. Knapp, W. D. Ray, P. D. Siudak, and R. F. Snow. Jun 94, 9p EPA/600/J-94/312
Contract EPA-68-DO-0106
Pub. in Jnl. of Air and Waste Management Association, v44 p781-786 Jun 94. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Tailpipe and evaporative emissions from three pre-1985 passenger motor vehicles operating on an oxygenated blend fuel and on a nonoxgenated base fuel were characterized. Emission data were collected for vehicles operating over the Federal Test Procedure at 40, 75, and 90 F to simulate ambient driving conditions. The two fuels tested were a commercial summer grade regular gasoline (the nonoxgenated base fuel) and an oxygenated fuel containing 9.5 percent methyl ter-butyl ether (MTBE), more olefins, and fewer aromatics than the base fuel. The emissions measured were total hydrocarbons (THCs), speciated hydrocarbons, speciated aldehydes, carbon monoxide (CO), oxides of nitrogen (NOX), benzene, and 1,3-butadiene. This study showed no pattern of tailpipe regulated emission reduction when oxygenated fuel was used. THC, CO, benzene, and 1,3-butadiene emissions from both fuels and all vehicles, in general, decreased with increasing test temperature, whereas NOX emissions, in general, increased with increasing test temperature.

Keywords: *Automotive fuels, *Automobile exhaust, *Air pollution abatement, Reprints, Comparative evaluation, Air pollution control, Exhaust emissions, Passenger vehicles, Petrochemistry, Organic compounds, Carbon monoxide, Oxygenation, Alternative fuels, Tailpipe emissions, Evaporative emissions.

PB94-192804/REB PC **A03/MF A01**
Abestos Release from the Demolition of Two Schools in Fairbanks, Alaska. Journal article.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
R. C. Wilmoth, M. S. Taylor, and B. E. Meyer. Jun 94, 12p EPA/600/J-94/313
Pub. in Applied Occupational and Environmental Hygiene, v9 n6 p409-417 Jun 94. See also PB86-116522. Prepared in cooperation with Department of Public Works, Fairbanks, AK. and Environmental Quality Management, Inc., Cincinnati, OH.

Two elementary schools on Fort Wainwright Army Base in Fairbanks, Alaska were demolished during the Summer of 1992. The primary objective of the study was to assess whether the demolition of the buildings with Category 1 materials in place resulted in a downwind increase in the airborne asbestos concentration. The secondary objective was to document the worker exposure levels encountered by the demolition workers and the workers transporting the debris. There was, however, no statistically significant (p values > 0.05) difference observed between the airborne asbestos concentrations measured upwind and downwind of the demolitions, nor were there any increases in downwind asbestos concentration observed during debris disposal and covering activities at the landfill. Personal air monitoring of workers indicated that asbestos exposures were well below the Occupational Safety and Health Administratin (OSHA) Action Level, and by definition, did not appear to present a significant health risk.

Keywords: *Air pollution monitoring, *Asbestos, *Schools, *Demolition, Occupational exposure, Risk assessment, Toxic substances, Industrial hygiene, Construction materials, Airborne wastes, Air pollution sampling, Microscopy, Alaska, Reprints, *Friable asbestos.

PB94-193216/REB PC **A04/MF A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Removal and Containment of Lead-Based Paint via Needle Scalers.
Erie County Dept. of Environment and Planning, Buffalo, NY.
P. B. Kranz, and J. E. Stadelmaier. Jul 94, 72p EPA/600/R-94/114
Grant EPA-R-816762
Prepared in cooperation with RECRA Environmental, Inc., Amherst, NY. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

This report describes a comparative technical and economic evaluation of using a dustless needlegun system versus a conventional abrasive grit blasting system in the removal of lead-based paint from steel structures. The objective of the study was to comparatively analyze the operational and logistical aspects of using dustless needleguns for lead-based paint removal as they relate to hazardous waste generation, worker health and safety and associated economic factors. The dustless needlegun system demonstrated its ability to produce a substantial reduction (97.5%) in the generation of hazardous waste when compared to conventional abrasive blasting. Also demonstrated was the ability to substantially reduce (up to 99%) the airborne concentrations of respirable dusts and lead-containing particulates generated during paint removal operations. The dustless needlegun system is shown to be economically competitive with conventional abrasive blasting when considering the reduced requirements for containment, hazardous waste disposal and worker protection.

Keywords: *Lead(Metal), *Hazardous wastes, *Occupational safety and health, *Paints, *Stripping, Alternatives, Economic analysis, Air pollution effects(Humans), Waste disposal, Performance evaluation, Particulates, Containment, *Waste minimization, Dustless needleguns.

PB94-193273/REB PC **A07**/MF **A02**
State Program Advisory Number 10. Directive (Final).
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
28 Jul 92, 137p EPA/530/R-94/026
Also pub. as Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response rept. no. OSWER-DIRECTIVE-9541.00-16. See also PB91-179168 and PB94-193281.

The report updates and revises the State Authorization Manual with RCRA progam changes for the period July 1, 1990 through December 31, 1990. It provides three new revision checklists: toxicity characteristic, hydrocarbon recovery operations; petroleum refinery primary and secondary oil/water/solids separation sludge listings (F037 and F038); and wood preserving listings. Also included is a consolidated toxicity characteristics checklist for the rules addressing the toxicity characteristics requirements. The State Program Advisory (SPA) revises four checklists and also provides updated tables G-1 and G-2, a model revision attorney general's statement, and a checklist linkage table to insert into the State Authorization Manual.

Keywords: *Superfund, *Hazardous materials, *Waste management, Pollution regulations, Petroleum refineries, Terminal facilities, Hydrocarbons, Wood preservatives, Sludges, Toxicity, Revisions, Tables(Data), *State Authorization Manual, State implementation plans, RCRA(Resource Conservation and Recovery Act).

PB94-193281/REB PC **A23**/MF **A04**
State Program Advisory Number 11. Directive (Final).
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
23 Sep 93, 536p EPA/530/R-94/027
Also pub. as Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response rept. no. OSWER-DIRECTIVE-9541.00-17. See also PB94-193273.

The report updates and revises the State Authorization Manual with RCRA program changes for the period January 1, 1991 through June 30, 1991. It provides nine new checklists: corrections to the land disposal restrictions, suspension of the toxicity characteristic for certain used chlorofluorocarbon refrigerants, correction to the boilers and industrial furnaces requirements, removal of strontium sulfide from the list of hazardous waste, corrections to the organic air emission standards for process vents and equipment leaks, administrative stay for the K069 listing, revision to the petroleum refining primary and secondary oil/water/solids separation sludge listings. The State Program Advisory (SPA) includes a consolidated land disposal checklist, updated through June 30, 1991. This SPA also provides updated tables G-1 and G-2, a model revision attorney general's statement, and a chekclist linkage table to insert into the State Authorization Manual.

Keywords: *Superfund, *Hazardous materials, *Waste management, Land disposal, Landfills, Toxicity, Chlorofluorocarbons, Refrigerants, Incineration, Incinerators, Boilers, Furnaces, Strontium sulfides, Air pollution standards, Pollution regulations, Leakage, Vents, Listings, Mining industry, Exceptions, Revisions, *State Authorization Manual, State implementation plans, RCRA(Resource Conversation and Recovery Act).

PB94-193299/REB PC **A15**/MF **A03**
State Program Advisory Number 12. Directive (Final).
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
4 Apr 94, 334p EPA/530/R-94/028
Also pub. as Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response rept. no. OSWER-DIRECTIVE-9541.00-18. See also PB94-193281.

The report updates and revises the State Authorization Manual with RCRA program changes for the period July 1, 1991 through December 31, 1991. It provides seven new checklists: technical amendments to the wood preserving listing and the boiler and industrial furnaces rules, land disposal restrictions for electric arc furnace dust (K061), corrections to the exports of hazardous waste requirements, administrative stay for coke ovens, and amendments to the interim standards for downgradient ground-water monitoring well locations. This State Program Advisory (SPA) also includes a consolidated burning of hazardous waste in boilers and industrial furnaces checklist, as well as similar consolidated checklist for the wood preserving listings. One checklist was revised. This SPA also provides updated tables G-1 and G-2, a model revision attorney general's statement, and a checklist linkage table to insert into the State Authorization Manual.

Keywords: *Superfund, *Hazardous materials, *Waste management, Land disposal, Landfills, Toxicity, Chlorofluorocarbons, Refrigerants, Incineration, Incinerators, Boilers, Furnaces, Strontium sulfides, Air pollution standards, Pollution regulations, Leakage, Vents, Listings, Mining industry, Exceptions, Revisions, *State Authorization Manual, State implementation plans, RCRA(Resource Conservation and Recovery Act).

PB94-193307/REB PC **A17**/MF **A04**
State Program Advisory Number Thirteen. Directive (Final).
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
7 Apr 94, 398p EPA/530/R-94/029
Also pub. as Environmental Protection Agency, Washington, DC. Assistant Administrator for Solid Waste and Emergency Response rept. no. OSWER DIRECTIVE-9540.00-19. See also PB94-193299.

This report, unlike previous state program advisories (SPA), does not contain one section which summarizes all of the regulatory changes for the period covered. Instead, stand-alone summaries, including model attorney general language, have been developed for each checklist, so that this information can be filed in the State Authorization Manual (SAM) with its corresponding checklist and Federal Register Notice. This SPA consists of the summary and three attachments. Attachment A contains each checklist in SPA 13 with its corresponding summary and Federal Register Article. Attachment B contains updates to the SAM, including tables G-1 and G-2, the model revision attorney general's statement and the checklist linkage table. This attachment also contains revised versions of Revision Checklist 17 H and 77. Attachment C contains all the special consolidated checklists as of June 30, 1993.

Keywords: *Superfund, *Hazardous materials, *Waste management, Legal aspects, Law enforcement, Administrative procedures, Pollution regulations, Standards, Remedial action, State programs, Listings, Revisions, Checklists, State Authorization Manuals, State implementation plans, Resource Conservation and Recovery Act.

PB94-193323/REB PC **A05**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Bicarbonate of Soda Blasting Technology for Aircraft Wheel Depainting. Project rept. Jun 91-May 92.
Battelle, Columbus, OH.
A. S. C. Chen, L. A. Smith, and R. F. Olfenbuttel. Jul 94, 82p EPA/600/R-94/127
Contract EPA-68-C0-0003
Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

This evaluation addressed product quality, waste reduction/pollution prevention and economics in replacing chemical solvent strippers with a bicarbonate of soda blasting technology for removal of paint from aircraft wheels. Because the paint being removed contained hazardous metal constituents, the liquid and solid wastes as well as the cloud of spray generated were evaluated for metal concentrations present and their leachability. Analyses for Cd, Cr, Cu, Pb, Mn, Ni, and Zn were made as well as total metals concentrations, pH, total suspended solids, and oil and grease. The blasting technology is effective for removing paint from aircraft wheels without significant damage to the anodized surface under the paint. In comparison to solvent depainting this technology reduced the amount of hazardous waste generated as well as cost savings due to operating and disposal costs, resulting in a 15% return on investment in about 4 years.

Keywords: *Stripping, *Pollution abatement, *Hazardous materials, *Blasting, *Paints, Alternatives, Aircraft, Economic analysis, Quality assurance, Performance evaluation, *Bicarbonate soda blasting, ARMEX/ACCUSTRIP process.

PB94-193612/REB PC **A05**/MF **A01**
Emissions Test Method 29: Determination of Metals Emissions from Stationary Sources (1994 Proposal).
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
K. W. Grimley. Apr 94, 94p EPA/454/R-94/016

This document presents the rationale and text for the proposed Test Method 29 for measurement of metals emissions, and the revisions to Method 101A for measurement of mercury. The document is divided into two chapters. Chapter 1 is a reprint of the proposal notice, signed by the EPA Administrator, which summarizes the proposal. Chapter 2 is the rationale and full text of the proposed method and method revisions. The full text of Method 29 and the Method 101A revisions should be used as the basis for submitting public comments on the proposal.

Keywords: *Air pollution monitoring, *Stationary sources, *Metals, Air pollution sources, Air pollution standards, Exhaust emissions, Mercury(Metal), Chemical analysis, Chemical tests, Quality assurance, Quality control, Standard operating procedures, EPA Method 29, EPA Method 101A, NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB94-193661/REB PC **A07**/MF **A02**
Economic Impact Analysis for the Petroleum Refineries NESHAP. Draft rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jul 94, 144p EPA/453/D-94/052

The purpose of this economic impact analysis (EIA) is to evaluate the effect of the control costs associated with the Petroleum Refining National Emission Standard for Hazardous Air Pollutants (NESHAP) on the behavior of the regulated petroleum refiners. The EIA was conducted based on the cost estimates for one hybrid regulatory option above the maximum achievable control technology (MACT) 'floor' (or minimum standard). This analysis compares the quantitative economic impacts of regulation to baseline industry conditions which would occur in the absence of regulation. The economic impacts of regulation are estimated for the industry, using costs which were supplied on both a national and a refinery level.

Keywords: *Petroleum refineries, *Air pollution standards, *Economic impact, Air pollution control, Air pollution economics, Pollution regulations, Clean Air Act, Hazardous materials, Emissions, Cost effectiveness, Cost analysis, Small businesses, NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB94-193836/REB PC **A04**/MF **A01**
Industry Profile for the Secondary Lead Smelters NESHAP. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
L. Conner. Jun 94, 56p EPA/453/R-94/040

In this report, the U.S. secondary lead smelting industry is profiled. The purpose of the profile is to provide market information that might affect the nature and magnitude of the economic impacts of a NESHAP for secondary lead smelters. Since secondary lead and primary lead are substitutable and compete for the same markets, some informatin on the U.S. primary lead industry is also provided.

Keywords: *Air pollution control, *Smelters, *Secondary materials industry, Lead(Metal), Metal industry, Air pollution standards, Standards compliance, Pollution regulations, Air pollution sources, Air pollution economics, Market analysis, Economic impact, Lead smelting, NESHAP(National Emission Standard for Hazardous Air Pollutants).

PB94-193844/REB PC **A04**/MF **A01**
National Inst. of Standards and Technology (BFRL), Gaithersburg, MD.
Fire Propagation in Concurrent Flows. Final progress rept. 1 Sep 92-31 Aug 93.
California Univ., Berkeley. Dept. of Mechanical Engineering.

A. C. Fernandez-Pello. Jun 94, 68p NIST/GCR-94/644
Grant NIST-60NANB1D1174
See also PB91-157206. Sponsored by National Inst. of Standards and Technology (BFRL), Gaithersburg, MD.

A research program has being conducted to study the mechanisms controlling the spread of flames in an oxidizing gas flow moving in the direction of flame propagation. During this reporting period research has been conducted to study the effect of the oxidizer flow characteristics on the concurrent flame spread over thick PMMA sheets. The parameters varied in the experiments are the oxidizer flow velocity, turbulence intensity and oxygen concentration, and the geometrical orientation (floor and ceiling). Their effect on the flame spread process is studied by measuring the rate of flame spread, flame length, surface heat flux, products of combustion and soot. The results of the experiments show that the combined effect of flow velocity, turbulence intensity, and oxygen concentration has a comnplex influence on the flame spread process. At low flow velocity, the flame spread rate increases monotonically with turbulence intensity. At high flow velocity, however, the flame spread rate increases with flow turbulence at low turbulence intensities, but it decreases at high turbulence intensity values. The effect is more pronounced at high oxygen concentration. These trends appear to be due to a strong influence of the turbulence intensity on the flame temperature and length, and on that heat flux from the flame to the solid fuel. Turbulence enhances mixing, which increases the flame temperatrue and then the heat flux.

Keywords: *Flame propagation, *Turbulence, *Fire tests, Velocity distribution, Buoyancy, Soot, Burning rate, Test facilities, Heat flux, Combustion products, Mathematical models, Heat transfer, *Concurrent flow.

PB94-193893/REB PC **A12/MF A03**
Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.
Water Quality Effects and Nonpoint Source Control for Forestry: An Annotated Bibliography. Final rept.
Tetra Tech, Inc., Fairfax, VA.
J. Craig, M. A. Parcher, J. Wright, G. Townsend, and J. Cannell. Aug 93, 252p* EPA/841/B-93/005
Contract EPA-68-C3-0303
See also PB94-193901. Sponsored by Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.

Many forestry-related practices have been identified as having an impact on water quality and aquatic habitat. These impacts range from increased water temperature and nutrient concentrations to disruptions in stream channel norphology and riparian characteristics that affect stream health. In 1993, the EPA released a guidance specifying management measures for sources of nonpoint source pollution in coastal waters as required under section 6217 of the Coastal Zone Act Reauthorization Amendments (CZARA). The guidance provides the States and Territories with management measures for the following major sources of nonpoint source pollution: (1) agricultural runoff; (2) urban runoff; (3) silvicultural runoff; (4) marinas and recreational boatings; and (5) channelization and channel modification, dams, and streambank and shoreline erosion. The development of the CZARA guidance on management measures provided the impetus for developing this annotated bibliography, which provides a single source of background information on the water quality impacts and the costs and effectiveness of forestry best management practices (BMPs) used to mitigate the impacts.

Keywords: *Water pollution effects, *Nonpoint sources, *Forestry, *Bibliographies, States(United States), Water pollution control, Environmental impacts, Aquatic ecosystems, Water temperature, Nutrients, Farms, Runoff, Marinas, Dams, Recreation facilities, Best management practices, US EPA, Cost effectiveness, CZARA(Coastal Zone Act Reauthorization Amendments), Territories.

PB94-193901/REB PC **A10/MF A03**
Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.
Summary of Current State Nonpoint Source Control Practices for Forestry. Final rept.
Tetra Tech, Inc., Fairfax, VA.
J. Craig, M. A. Parcher, J. Wright, G. Townsend, and J. Cannell. Aug 93, 212p EPA/841/S-93/001
Contract EPA-68-C3-0303
See also PB94-193893. Sponsored by Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.

Forestry practices have been implicated by many states as a contributor to nonpoint source (NPS) pollution of streams, rivers, lakes, and other waterbodies. Many states, recognizing the forestry contribution to water pollution, have developed programs to address forestry NPS. The recent development of the Management Measures Guidance, as required by section 6217 of the Coastal Zone Reauthorization Amendments (CZARA), provided the motivation to develop a summary of the current state forestry NPS programs. The document provides a synopsis of the BMPs currently used by states to address the nonpoint source (NPS) impacts on water quality caused by forestry activities. Summaries of over 41 existing state BMP manuals or regulations that include BMPs are presented. The information presented in the document is intended to provide an increased understanding of the types of forestry activities commonly addressed in existing state NPS programs and to serve as a reference for the type and nature of BMPs included in current state BMP manuals.

Keywords: *States(United States), *Water pollution control, *Forestry, Surveys, Nonpoint sources, Streams, Lakes, Rivers, Coasts, Best management practices, Silviculture, Drainage, Watersheds, Culverts, Spacing, Buffers, Fertilizers, Pesticides, Harvesting, Roads, Tables(Data), Prescribed burning.

PB94-194438/REB PC **A05/MF A01**
Chesapeake Bay Dissolved Oxygen Goal for Restoration of Living Resource Habitats. Reevaluation rept. no. 7C.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
S. Jordan, C. Stenger, M. Olson, R. Batiuk, and K. Mountford. Dec 92, 92p CBP/TRS-88/93
Prepared in cooperation with Maryland Dept. of Natural Resources, Annapolis. Chesapeake Bay Research and Monitoring Div. and Computer Sciences Corp., Annapolis, MD. Chesapeake Bay Liaison Office.

Section I provides an introduction, including background on the need for developing this document, report objectives, and a brief summary of characteristics of dissolved oxygen in Chesapeake Bay. Sections II and III in the document establish and defend a dissolved oxygen restoration goal for Chesapeake Bay, based on extensive analysis and evaluation of research data. Section IV provides applications of the Goal and target concentrations to monitoring and modeling information. This section explains the relationships developed and how to use them to evaluate present and projected dissolved oxygen conditions in the Bay and its tributaries. Appendix B contains further details of the statistical approach used in this analysis.

Keywords: *Chesapeake Bay, *Restoration, *Water pollution control, Aquatic ecosystems, Estuaries, Environmental monitoring, Dissolved oxygen, Habitats, Water quality, Marine biology, Marine animals, Natural resoures management, Shellfish, Fishes, Invertebrates, Target species.

PB94-194479/REB PC **A02/MF A01**
Emerging Technology Summary: Destruction of Organic Contaminants in Air Using Advanced Ultraviolet Flashlamps.
Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information.
Jul 93, 9p EPA/540/SR-93/516
See also PB93-205383.

The summary describes a new process for photo-oxidation of volatile organic compounds (VOCs) in air using an advanced ultraviolet (UV) source, and a pulsed xenon flashlamp. The flashlamps have greater output at 200 to 250 nm than medium-pressure mercury lamps at the same power and, therefore, cause much more rapid direct photolysis of VOCs. The observation of quantum yields greater than unity indicate the involvement of chain reactions for trichloroethene (TCE), perchloroethene (PCE), 1,1-dichloroethylene (DCE), CHCl3, and CH2Cl2. TCE was examined more closely because of its widespread occurrence and very high destruction rate.

Keywords: *Air pollution control equipment, *Ultraviolet radiation, *Flash lamps, *Superfund, Photochemistry, Photolysis, Technology innovation, Quantum efficiency, Luminous intensity, VOCs(Volatile organic compounds), Ethene/trichloro, Photo-oxidation.

PB94-194487/REB PC **A03/MF A01**
Technology Demonstration Summary: Peroxidation Systems, Inc. Perox-Pure (Trade Name) Chemical Oxidation Technology.
Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information.
Aug 93, 11p EPA/540/SR-93/501
See also PB93-213528 and PB94-130325.

As part of the Superfund Innovative Technology Evaluation (SITE) program, the U.S. Environmental Protection Agency (EPA) demonstrated the Peroxidation Systems, Inc. (PSI), perox-pure chemical oxidation treatment system. The SITE demonstration was conducted at Lawrence Livermore National Laboratory (LLNL) Site 300 in Tracy, CA. Over a 3-wk period in September 1992, about 40,000 gal of groundwater contaminated with trichloroethene (TCE), tetrachloroethene (PCE), and other volatile organic compounds (VOC) was treated in the perox-pure system. The perox-pure system achieved TCE and PCE removal efficiencies greater than 99.7% and 97.1%, respectively. Potential sites for applying this technology include Superfund and other hazardous waste sites where groundwater or other liquid wastes are contaminated with organic compounds. Economic data indicate that groundwater remediation costs could range from about $7 to $11/1,000 gal depending on contaminated groundwater characteristics. Of these costs, perox-pure system direct treatment costs could range from about $3 to $5/1,000 gal.

Keywords: *Waste treatment, *Water pollution control, *Organic compounds, *Oxidation, *Superfund, Liquid wastes, Ground water, Drinking water, Remedial action, Technology utilization, Field tests, Cost engineering, Performance evaluation, Reprints, *Peroxpure chemical oxidation, LLNL(Lawrence Livermore National Laboratory), Ethene/trichloro, Ethene/tetrachloro, VOCs(Volatile organic compounds), MCLs(Maximum contaminant levels).

PB94-194586/REB PC **A10/MF A03**
Regulatory Impact Analysis for the Petroleum Refineries NESHAP. Draft rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jul 94, 201p EPA/453/D-94/053
See also PB94-193661.

The report analyzes the regulatory impacts of the Petroleum Refinery National Emission Standard for Hazardous Air Pollutants (NESHAP), which is being promulgated under Section 112 of the Clean Air Act Amendments of 1990 (CCA). This emission standard would regulate the emissions of certain hazardous air pollutants (HAPs) from petroleum refineries. The petroleum refineries industry group includes any facility engaged in the production of motor gasoline, naphthas, kerosene, jet fuels, distillate fuel oils, residual fuel oils, lubricants, or other products made from crude oil or unfinished petroleum derivatives. The report analyzes the impact that regulatory action is likely to have on the petroleum refining industry.

Keywords: *Petroleum refineries, *Air pollution standards, Air pollution control, Pollution regulations, Law enforcement, Standards compliance, Clean Air Act, Hazardous materials, Emissions, Cost analysis, Cost benefit analysis, Small businesses, *Regulatory impact, NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB94-194594/REB PC **A09/MF A02**
Regulatory Impact Analysis and Regulatory Support Document: Control of Air Pollution; Determination of Significance for Nonroad Sources and Emission Standards for New Nonroad Compression-Ignition Engines at or Above 37 Kilowatts (50 Horsepower). Final rept.
Environmental Protection Agency, Ann Arbor, MI. Office of Mobile Sources.
T. Trimble, D. R. North, K. A. H. Green, M. A. Sabourin, and D. A. Guerrieri. 27 May 94, 180p

The regulatory impact analysis and support document provides additional information in support of the Final Rulemaking (FRM). This FRM will regulate all new nonroad compression-ignition engines greater than or

equal to 37 kilowatts (50 hp), except engines which propel or are used on marine vessels, aircraft engines, engines which propel locomotives, and engines regulated by the Mining, Safety, and Health Administration. The regulated engines are hereafter referred to as nonroad large CI engines. The goal of this regulation is to substantially reduce NOx emission and smoke from nonroad large CI engines beginning in the 1996 model year.

Keywords: *Air pollution control, *Exhaust emissions, *Compression ignition engines, Agricultural machinery, Gardening, Construction equipment, Nitrogen oxides, Smoke, Pollution regulations, Air pollution standards, Standards compliance, Environmental impacts, Economic impact, Cost analysis, Cost effectiveness, *Nonroad sources, *Regulatory impact.

PB94-194651/REB PC **A03**/MF **A01**
NPS New-Notes No. 26, January-February 1993. The Condition of the Water-Related Environment; The Management and Ecological Restoration of Watersheds; The Control of Nonpoint Sources of Water Pollution. Bulletin.
Environmental Protection Agency, Washington, DC. Office of Water.
1993, 30p EPA/841/N-93/001

Contents;
Notes on Envrionmental Education;
Notes on Water Quality Management;
Reauthorizing the Clean Water Act;
News from the States and Localities;
Coastal Nonpoint Pollution Control News;
Riparian and Watershed Management Notes;
Reviews;
and Announcements.

Keywords: *Water pollution, *Nonpoint sources, *Clean Water Act, Water quality management, Watersheds, Agriculture, Forest management, Environmental effects, Economic development, State agencies, Land use, Environmental policy, Education, Local agencies.

PB94-194818/REB PC **A99**/MF **E11**
Development Document for Effluent Limitations Guidelines and Standards for the Aluminum Forming. Point Source Category.
Environmental Protection Agency, Washington, DC. Office of Water.
Nov 82, 1138p EPA/440/1-82/073B
See also PB84-139757, PB84-244425, PB84-244433 and PB93-208213.

EPA has collected and analyzed data for plants in the Aluminum Forming Point Source Category. There are no existing effluent limitations or performance standards for this industry. This document and the administrative record provide the technical basis for proposing effluent limitations guidelines for existing direct dischargers, pretreatment standards for new and existing indirect dischargers, and standards of performance for new source direct dischargers.

Keywords: *Aluminum industry, *Metal working, *Industrial waste treatment, *Chemical effluents, *Pollution regulations, Water pollution control, Water pollution abatement, Waste water, Point sources, Industrial plants, Water pollution sampling, Pretreatment, Water pollution standards, Pollution regulations, Water pollution economics, Economic impact, Treatment technology, Waste water reuse, BAT(Best available technology).

PB94-194826/REB PC **A04**/MF **A01**
Environmental Protection Agency, Washington, DC. Office of Water.
Analysis of Industrial Effluents for RCRA and Other Pollutants.
Centec Analytical Services, Salem, VA.
21 Oct 85, 72p
See also PB93-212025. Sponsored by Environmental Protection Agency, Washington, DC. Office of Water.

The report summarizes results of 10 samples collected from in-process, untreated, and treated waste streams at six industrial plants. The report is divided into the following sections: Introduction; Samples Analyzed; Analytes and Methods; Analytes Detected; Analytes Tested; and Quality Assurance/Quality Control.

Keywords: *Industrial wastes, *Waste water treatment, *Water pollution sampling, Chemical effluents, Hazardous materials, Waste streams, Pretreatment, Industrial plants, Sectoral analysis, Water pollution detection, Chemical analysis, RCRA(Resource Conservation and Recovery Act).

PB94-194834/REB PC **A06**/MF **A02**
Development Document for Proposed Effluent Limitations Guidelines and New Source Performance Standards for the Building, Construction and Paper Segment of the Asbestos Manufacturing Point Source Category.
Environmental Protection Agency, Washington, DC. Office of Water.
R. Train, R. L. Sansom, A. Cywin, and R. J. Carton. Oct 73, 115p EPA/440/1-73/017
See also PB-238 320.

This document presents the findings of an extensive study of the asbestos manufacturing industry by the Environmental Protection Agency for the purpose of developing effluent limitations guidelines. Effluent limitations guidelines contained herein set forth the degree of effluent reduction attainable through the application of the best practicable control technology currently available and the degree of effluent reduction attainable through the application of the best available technology economically achievable which must be acheived by existing point sources by July 1, 1977 and July 1, 1983 respectively. The Standards of Performance for new sources contained herein set forth the degree of effluent reduction which is achievable through the application of the best available demonstrated control technology, processes, operating methods, or other alternatives.

Keywords: *Asbestos industry, *Industrial waste treatment, *Chemical effluents, *Water pollution control, Asbestos cement products, Building products industry, Water pollution abatement, Water pollution standards, Pollution regulations, Point sources, Industrial plants, Waste water, Economic impact, Water pollution economics, Pretreatment, Treatement technology, New Source Performance Standards, BAT(Best Available Technology).

PB94-194859/REB PC **A14**/MF **A03**
Environmental Protection Agency, Washington, DC. Office of Water Programs.
Assessment of pH Control of Process Waters in Selected Plants. Draft rept.
JRB Associates, Inc., McLean, VA.
Mar 79, 312p
Contract EPA-68-01-3881
Sponsored by Environmental Protection Agency, Washington, DC. Office of Water Programs.

Table of Contents:
Conclusions;
Introduction;
Methodology;
Plant Descriptions (Introduction;
Sources of Wastewater;
Pollutants Present in Wastewater;
Wastewater Flow Rate;
and Wastewater Treatment System Design);
Data Analysis and Results (Introduction and Summary;
and Data Analysis);
and Plant Waste Treatment Costs (Compilation of Waste Treatment Costs;
and Examination of Plant Cost Data).

Keywords: *Waste water treatment, *pH, *Industrial wastes, Chemical effluents, Industrial plants, Water pollution control, Water pollution standards, Standards compliance, Water pollution economics, Cost analysis, Chemical analysis, Best practical technology.

PB94-195013/REB PC **A04**/MF **A01**
THC Continuous Emission Monitoring Guidance for Part 503 Sewage Sludge Incinerators.
Environmental Protection Agency, Washington, DC. Office of Water.
30 Jun 94, 64p EPA/833/B-94/003

The Envrionmental Protection Agency's guidance document for monitoring of total hydrocarbons (THCs) at sewage sludge incinerators was finalized in response to comments received from Federal, State and local government agencies. The document contains recommendations for compliance with these requirements. It addresses installation, calibration, operation, and maintenance procedures for sewage sludge incinerators in the following areas: (1) THC continuous emissions monitoring (CEM); (2) oxygen CEM; (3) moisture CEM; (4) quality assurance; and (5) recordkeeping and reporting. The document will provide guidance for both the interim and long-term sludge permitting programs.

Keywords: *Sewage sludge, *Incineration, *Hydrocarbons, *Air pollution monitoring, Sludge disposal, Incinerators, Stack gases, Exhaust emissions, Combustion products, Air pollution control, Record keeping, Reporting requirements, Standards compliance, Air pollution standards, Pollution regulations, Administrative procedures, Permits, Quality assurance, Continuous emission monitors, THC(Total Hydrocarbons).

PB94-195054/REB PC **A11**/MF **A03**
Sustainable Industry: Promoting Strategic Environmental Protection in the Industrial Sector. Phase 1 Report. Final rept.
Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation.
R. S. Benson, J. E. Casey, J. B. Frieder, J. L. Newsome, and L. Preston. Jun 94, 233p EPA/230/R-94/009

The Sustainable Industry Project represents a new approach to development of environmental policy on an industry sector basis. The Agency's goal is to develop, test, and implement industry-specific policy recommendations that will remove barriers to innovation and promote strategic environmental protection. The report outlines the progress made to date in developing policy options that will improve environmental and economic performance in the metal finishing, photoimaging, and thermoset plastic industries. This was accomplished by working with the industries, states, nongovernmental organizations, and other interested parties. The Phase 1 Report details the selection of the three industries, the development of a network of 'stakeholders' for the project, identification of the key drivers and barriers that influence environmental performance in each industry, and selection of the policy options that will effect changes in that performance.

Keywords: *Environmental protection, *Industrial sector, *Pollution prevention, *Economic growth, *Policies, Options, Recommendations, Barriers, Removal, Metal finishing, Changes, Cost effectiveness, Waste minimization, Selection, Plastics industry, Best management practice, Performance evaluation, Sustainable development, Photoimaging industry.

PB94-195070/REB PC **A06**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Evaluation of Containment and Control Options for Methyl Bromide in Commodity Treatment. Final rept.
Radian Corp., Austin, TX.
G. B. DeWolf, and M. R. Harrison. Jul 94, 110p EPA/600/R-94/126
Contract EPA-68-D1-0031
See also PB88-242367. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

Methyl bromide (MeBr), with the chemical formula CH3Br, also called bromomethane, is listed by the 1991 Montreal Protocol as an ozone depleting chemical similar to the other halogenated hydrocarbons such as the chloro-fluorocarbons (CFCs). The U.S. Environmental Protection Agency's (EPA's) regulations authorized by the Clean Air Act (CAA) call for a phase-out of MeBr by the year 2001. MeBr is widely used in United States agriculture as a fumigant. This study has gathered preliminary data that can be used to determine if some of the essential agricultural commodity fumigation applications for MeBr could be continued by the use of some emission control methods on those commodity fumigation applications.

Keywords: *Air pollution abatement, *Bromohydrocarbons, *Agricultural products, *Fumigation, Commodities, Agricultural chemistry, Pesticides, Air pollution control, Stationary sources, Bromides, Harvesting, Adsorption, Activated carbon, Methyl bromide, Agricultural commodity treatment, Air pollution control technology.

PB94-195203/REB PC **A07**/MF **A02**
Extraction and Beneficiation of Ores and Minerals. Volume 3. Iron. Technical Resource Document.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Aug 94, 126p EPA/530/R-94/030

This industry profile presents the results of the EPA's Research into the domestic iron industry and is one of a series of profiles of major mining sectors. This report briefly characterizes the geology of iron ores and the economics of the industry. Following this discussion is a review of iron extraction and beneficiation methods; this section provides the context for descriptions of wastes and materials managed by the industry, as well as a discussion of the potential environmental effects that may result from iron mining. The report concludes with a description of the current regulatory programs that apply to the iron mining industry as implemented by EPA, Federal Land Management Agencies, and selected states. Appendices include comments on this report and EPA responses.

Keywords: *Iron and steel industry, *Environmental effects, Pollution control, Beneficiation, Iron ores, Industrial wastes, Case studies, Lake Superior, Minnesota, LTV steel.

PB94-195286/REB PC **A01**/MF **A01**
Pesticide Fact Sheet: Corn Gluten Meal.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
7 Jun 94, 5p EPA/737/F-94/007

The document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides.

Keywords: *Plant growth regulators, *Herbicides, *Registration, Chemical properties, Environmental impacts, Environmental transport, Risk assessment, Exposure, Toxicity, Pesticides, *Corn gluten meal, CAS 66071-96-3.

PB94-195849/REB PC **A05**/MF **A01**
Economic Impact Analysis of the Secondary Lead Smelters NESHAP. Final.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
L. Conner. Jun 94, 79p EPA/453/R-94/039
See also PB94-193836.

The report evaluates the economic impacts of a proposed National Emissions Standard for Hazardous Air Pollutants (NESHAP) for secondary lead smelters. The report seeks mainly to determine (1) the market response to the regulation - specifically, impacts on industry-wide output, employment, and revenue; and (2) the ability of each impacted facility to absorb annual control costs and obtain financing for capital control costs.

Keywords: *Air pollution control, *Smelters, *Secondary materials industry, Lead(Metal), Metal industry, Air pollution standards, Pollution regulations, Law enforcement, Standards compliance, Air pollution economics, Market analysis, Economic impact, Lead smelting, NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB94-195948/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC.
Riparian Buffers for Water Quality Enhancement in the Albemarle-Pamlico Area.
Research Triangle Inst., Research Triangle Park, NC.
R. C. Dodd, M. McCarthy, S. Stichter, W. S. Cooter, and W. D. Wheaton. 1 Nov 93, 37p
See also PB93-234672. Sponsored by Environmental Protection Agency, Research Triangle Park, NC.

Partial Contents:
- Executive Summary;
- Definition and Functions;
- Status of Riparian Buffers in the Albemarle/Pamlico Study Area;
- Protection/Restoration of Riparian Buffers;
- Recommendations.

Keywords: *Water pollution abatement, *Forestry, *Watersheds, *Buffers, *Coasts, Protection, Habitats, Aquatic ecosystems, Land management, Runoff, Food chains, Effectiveness, Resource conservation, Government policies, North Carolina, *Riparian areas, *Albemarle - Pamlico Area.

PB94-195955/REB PC **A10**/MF **A03**
Pilot Study on Indoor Air Quality. Final rept. 1989-92.
NATO Committee on the Challenges of Modern Society, Brussels (Belgium).
R. Axelrad, and M. Maroni. Jun 94, 206p CCMS-195
See also PB91-145896. Prepared in cooperation with Environmental Protection Agency, Washington, DC.

Table of Contents:
- Introduction;
- Overview of the Indoor Air Issue;
- Recommendations of the Pilot Study;
- Abstracts of Pilot Study Presentations by Meeting;
- Participants in the NATO/CCMS Pilot Study on Indoor Air Quality;
- Pilot Study Inventory;
- Risk Management Programs;
- and Air Quality Standards and Guidelines.

Keywords: *Indoor air pollution, *Air pollution effects(Humans), *Environmental engineering, Buildings, Risk assessment, Health effects, Air pollution sources, Exposure, Ventilation systems, Building materials, Construction, Pilot studies, Meetings, Indoor air quality.

PB94-195963/REB PC **A07**/MF **A02**
Interim Report on Flows in the Lower Roanoke River, and Water Quality and Hydrodynamics of Albemarle Sound, North Carolina, October 1989-April 1991. Open file rept.
Geological Survey, Raleigh, NC.
J. D. Bales, A. G. Strickland, and R. G. Garrett. 1993, 144p USGS/OFR-92/123
Also pub. as North Carolina Dept. of Environment, Health and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study rept. no. APES-92-12. See also PB-226 374 and PB89-173132. Prepared in cooperation with North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study. and Corps of Engineers, Washington, DC.

A 3-year investigation was begun in 1990 to (1) develop a model for computing flows in the lower 67 miles of the Roanoke River, (2) characterize water-quality conditions in Albemarle Sound, and (3) describe the circulation regime of Albemarle Sound. The report summarizes data and results obtained during the first year of the study.

Keywords: *North Carolina, *Albemarle Sound, *Roanoke River, *Hydrology, Water levels, River flow, Flow measurement, Reservoir releases, Hydrodynamics, Inflow, Discharge(Water), Salinity, Bathymetry, Current meters, Wind velocity, Water temperature, Dissolved oxygen, Water quality, Hydraulic models, Model studies.

PB94-195997/REB PC **A03**/MF **A01**
EPA Great Waters Program: An Introduction to the Issues and the Ecosystems.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Apr 94, 32p EPA/453/B-94/030
Color illustrations reproduced in black and white.

The brochure addresses the issue of atmospheric deposition of toxic air pollutants into large US water bodies. It describes potential mechanisms of deposition, the various water bodies affected, possible ecological and human health consequences, and programs underway attempting to address the situation.

Keywords: *Air pollution effects, *Water pollution effects, *United States, Great Lakes, Lake Champlain, Chesapeake Bay, Air pollution sources, Air pollution control, Industrial wastes, Water quality, Natural resources management, Ecosystems, Estuaries, Coastal areas, Environmental issues, Hazardous materials, Food consumption, Land use, Great Waters Program.

PB94-196144/REB PC **A06**/MF **A01**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Abundance and Viability of Striped Bass Eggs Spawned in Roanoke River, North Carolina, in 1989. Final rept.
East Carolina Univ., Greenville, NC.
R. A. Rulifson. Nov 90, 106p APES-90-11
See also PB94-188802. Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.

Sampling to estimate production and viability of striped bass eggs was conducted at Barnhill's Landing on the Roanoke River, North Carolina, from 15 April to 15 June 1989. A total of 4,722 eggs was collected in surface nets: first eggs appeared in samples on 16 April and continued sporadically until 9 June, when the last eggs were collected. Estimated striped bass egg production in the Roanoke River for 1989 was 637,919,162 (S.D. = 27,668,383) eggs. A potential major spawning activity at the end of April was terminated by high and prolonged reservoir discharge, which forestalled peak spawning until the last week in May. Seasonal egg production was 50% complete by 26 May, 80% complete by 29 May, and 99% complete by 2 June. Egg viability was estimated as 41.8%, the seventh lowest on record. Major egg deposition ensued when water temperatures reached 18 deg. C. Approximately 89% of all eggs was collected at water temperatures between 18 and 21.0 deg. C. Over half of the eggs were collected at water velocities ranging from 100 to 119.9 cm/second; an additional 22% were collected at 60-79.9 cm/second.

Keywords: *Dams, *Eggs, *Water pollution effects(Animals), *Bass, *Roanoke River, Viability, Water pollution sampling, Production, Discharge(Water), Water temperature, Seasonal variations, pH, Changes, Water flow, Velocity measurement, Reservoirs, *Spawning activity, Stripped bass.

PB94-196383/REB PC **A11**/MF **A03**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Value of Recreational Fishing on the Albemarle and Pamlico Estuaries. Final rept.
North Carolina State Univ. at Raleigh. Dept. of Economics and Business.
V. K. Smith, and R. B. Palmquist. Sep 89, 228p APES-88-13
Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study. and Environmental Protection Agency, Washington, DC.

The objective of this project is to develop economic models of how individuals use the Albemarle-Pamlico Sounds for recreational fishing. In the process, the authors sought to describe demands for marine fishing. These models would be used to evaluate one aspect of the benefits people would realize from improvements in the quality of these resources. Management policies directed to reducing the effluent loading entering the sounds could then be evaluated. These models include the average catch rates for all boat fishermen using specific entry points as a measure of the quality of area of the estuary for fishing. The preliminary findings suggest that a 25 percent increase in the catch rate would increase the value to a fisherman of a typical fishing trip to each area by between $10 and $71 in 1981 dollars.

Keywords: *Recreational facilities, *Demand(Economics), *Sport fishing, *Values, *Estuaries, Coasts, Economic models, Changes, Pollution control, Improvement, Marine fishes, Benefit cost analysis, Travel, Decision making, Tourism, Sites, Maps, Comparison, Virginia, *Sea Grant Program, *Catch statistics, Albemarle Sound(North Carolina), Pamlico Sound(Atlantic Ocean).

PB94-196532/REB PC **A07**/MF **A02**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Routed Vascular Beds in the Albemarle-Pamlico Estuarine System. Final rept.
National Marine Fisheries Service, Beaufort, NC. Beaufort Lab.
R. L. Ferguson, and L. L. Wood. May 94, 126p APES-94-02
See also PB-252 064, PB80-168784, PB86-214897, PB92-128339 and PB93-196665. Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

The study delineates and quantifies the location and extent of submersed rooted vascular beds (SRV) in the Albemarle-Pamlico Estuarine system based on conventional color aerial photography. Sampling in the field was performed to assure accurate interpretation of the photographs and to provide subregional and ecological information on the distribution of species of SRV.

Keywords: *Rooted aquatic plants, *Plant ecology, *North Carolina, Albemarle Sound, Pamlico Sound, Species diversity, Aquatic ecosystems, Biological communities, Salinity, Water quality, Vegetation, Wetlands, Marshes, Habitats, Estuaries, Fisheries, Aerial surveys, *Vascular plants, Submersed rooted vascular beds, Hyposalinity, Low salinity, Hypersalinity, High salinity, Albemarle-Pamlico Estuarine System.

PB94-196573/REB PC **A13**/MF **A03**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Watershed Planning in the Albemarle-Pamlico Estuarine System. Report 3. Toxics Analysis. Final rept.
Research Triangle Inst., Research Triangle Park, NC.
P. A. Cunningham, R. E. Williams, R. L. Chessin, J. M. McCarthy, and R. J. Curry. Dec 92, 300p APES-92-04
Contract APES-PR-92-04
Portions of this document are not fully legible. See also PB94-173366. Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.

The Albemarle-Pamlico (A/P) estuarine system is one of 17 estuaries identified nationwide under EPA's National Estuary Program. This report presents the results of a project to analyze multimedia toxics data from the system, one of several efforts by Research Triangle Institute (RTI) to support watershed planning in the A/P Study Area. The main purposes of this project were to: analyze toxics information from diverse agencies and databases in a consistent manner; estimate annual toxics loadings from point sources in the A/P basins and predict the potential for exceedances of water quality standards due to these sources; compare ambient water column, sediment, and fish tissue data to the most appropriate standards or criteria available to identify areas of concern where these standards or criteria are exceeded; and use Geographic Information System (GIS) technology to display the above results in graphical (map) form for further analysis and action by State agencies.

Keywords: *North Carolina, *Water pollution sources, *Toxic substances, Albemarle Sound, Pamlico Sound, Point sources, Hazardous materials, Sediments, Loading rates, Data analysis, Fishes, Shellfish, Water pollution effects(Animals), Food chains, Public health, Water pollution standards, Standards compliance, Watershed management, Estuaries, Fresh water, Albemarle-Pamlico Estuarine System.

PB94-196896/REB PC **A11**/MF **A03**
Environmental Protection Agency, Washington, DC. Risk Assessment Forum.
Report on the Technical Workshop on WTI Incinerator Risk Issues. Held in Washington, DC. on December 8-9, 1993.
Eastern Research Group, Inc., Lexington, MA.
Dec 93, 235p EPA/630/R-94/001, , RAF-009
Contract EPA-68-C3-0315
Sponsored by Environmental Protection Agency, Washington, DC. Risk Assessment Forum.

The report includes information and materials from a peer review workshop organized by EPA's Risk Assessment Forum (RAF) for the Office of Solid Waste and Emergency Response and Region 5. The meeting was held in Washington, DC, at the Holiday Inn Capitol on December 8-9, 1993. The subject of the peer review was a draft project plan prepared by EPA Region 5 for assessing risk at an incinerator operated by Waste Technologies Industries (WTI) in East Liverpool, Ohio. The peer review panel was convened to evaluate the project plan as the scientific foundation for a risk assessment, which will be used in setting final permit conditions for the WTI facility.

Keywords: *Incinerators, *Hazardous materials, *Risk assessment, *Public health, *Air pollution monitoring, Incineration, Air pollution dispersion, Environmental transport, Stack gases, Exhaust emissions, Combustion products, Toxicology, Environmental exposure pathway, Health hazards, Waste streams, Organic compounds, Dioxins, Furans, Metals, Meetings, East Liverpool(Ohio), EPA Region 5, WTI(Waste Technologies Industries).

PB94-196979/REB PC **A03**/MF **A01**
Environmental Research Brief: Complex Mixtures and Ground Water Quality. Rept. for Oct 91-Oct 92.
Robert S. Kerr Environmental Research Lab., Ada, OK.
M. L. Brusseau. May 93, 17p EPA/600/S-93/004
Prepared in cooperation with Arizona Univ., Tucson. Dept. of Soil and Water Science.

The occurrence of organic chemicals in soil and groundwater has become an issue of great interest and import. Concomitantly, research on the transport and fate of organic contaminants in subsurface environments has expanded greatly in recent years. However, the behavior of 'complex mixtures' is beginning to receive increased attention. Examples of pertinent problems involving complex mixtures include the transport of oxygenated gasoline in the subsurface, the dissolution of diesel fuel and coal-tar, and the use of chemical agents such as surfactants or solvents to enhance the removal of contaminants by pump-and-treat remediation. A discussion of these few selected examples will serve to highlight some of the issues associated with complex mixtures, with a focus on potential groundwater contamination and remediation.

Keywords: *Ground water, *Path of pollutants, *Subsurface flow, Environmental transport, Groundwater movement, Soil water movement, Water pollution, Soil contamination, Liquid flow, Ethanols, Methanols, Automotive fuels, Gasoline, Alcohols, Organic compounds, Physicochemical properties, Solubility, Multiphase flow, Flow measurement, *Oxygenates, Complex mixtures, Oxygenated fuels, Miscible liquids.

PB94-196987/REB PC **A03**/MF **A01**
Colchicine Inhibits Elevations in Both Alveolar-Capillary Membrane Permeability and Lavage Surfactant After Exposure of the Rat to Phosgene. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Inhalation Toxicology Div.
A. J. Ghio, and G. E. Hatch. c1992, 11p EPA/600/J-94/333
Pub. in Inhalation Toxicology, v4 p383-392 1992. See also PB92-136332. Prepared in cooperation with Duke Univ., Durham, NC. Dept. of Medicine.

The authors tested the hypothesis that colchicine diminishes the neutrophil influx and associated elevations in permeability of the alveolar-capillary membrane but does not affect lavage surfactant accumulation after COCl2 exposure. Rats were treated with either colchicine or saline prior to COCl2 at 0.5 ppm x 60 min. To measure membrane permeability, (125)I-labeled bovine serum albumin was injected via the tail vein immediately and 1 day after exposure. After 2 h, radioactivity of blood and lavage fluid was measured. Lavage surfactant was quantified as phospholipid immediately and 1 day after exposure. Permeability was elevated immediately but returned to normal values 1 day after inhalation. Phospholipid in the lavage fluid showed no immediate change but was increased 1 day after COCl2 inhalation. Colchicine inhibited both the immediate rise in the permeability index and the elevation of phospholipid 1 day after exposure to phosgene. The authors conclude that colchicine inhibited elevations in both alveolar-capillary membrane permeability and lavage surfactant after exposure to phosgene. (Copyright (c) 1992 by Hemisphere Publishing Corporation.)

Keywords: *Colchicine, *Phosgene, *Pharmacology, *Pulmonary alveoli, *Capillary permeability, Bronchoalveolar lavage fluid, Pulmonary surfactants, Proteins, Neutrophils, Phospholipids, Reprints.

PB94-197019/REB PC **A02**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Operations and Research at the U.S. EPA Incineration Research Facility: Annual Report for FY93. Rept. for Oct 92-Sep 93.
Acurex Environmental Corp., Jefferson, AR.
L. R. Waterland. cJun 94, 122p EPA/600/R-94/091
Contract EPA-68-C9-0038
See also PB94-114659, PB92-239540, PB91-182493 and PB90-186339. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The U.S. Environmental Protection Agency's Incineration Research Facility (IRF) in Jefferson, Arkansas, is an experimental facility that houses a pilot-scale rotary kiln incineration system (RKS) and the associated waste handling, emission control, process control, and safety equipment; as well as onsite laboratory facilities. During fiscal year 1993, two major test programs were completed at the IRF: an evaluation of rotary kiln incinerator operation at low to moderate temperatures, and a series of tests in which simulated mixed wastes were incinerated to support the Westinghouse Savannah River Company. Results of a pilot-scale test program previously completed, a parametric evaluation of the fate of trace metals fed to a rotary kiln incinerator equipped with a Calvert Flux-Force/Condensation scrubber system, were reported during FY93. Finally, a fabric filter air pollution control system, including flue gas reheat, was incorporated into the RKS. This report summarizes all efforts completed or onging at the IRF during FY93.

Keywords: *Hazardous materials, *Incineration, *Research projects, US EPA, Test facilities, Air pollution, Soils, Kilns, Incinerators, Injection, Propellants, Combustion efficiency, Combustion products, Waste disposal, Jefferson(Arkansas).

PB94-197027/REB PC **A03**/MF **A01**
Health Effects Research Lab., Cincinnati, OH.
GeneTox Manager System (GENETOX). Programmer's Guide: VAX Component. (Version 2.0).
Computer Sciences Corp., Research Triangle Park, NC.
J. Nader. cMar 94, 14p EPA/600/R-94/033
Contract EPA-68-WO-0043
See also PB94-501970, PB94-197043, PB94-197050 and PB94-197035. Sponsored by Health Effects Research Lab., Cincinnati, OH.

The programmer's guide is the reference manual explaining how the EPA GeneTox Manager System operates on the VAX. It is intended for use by anyone who has to perform program maintenance of the application. GeneTox Manager is a data capture, data management, and statistical analysis program used for microbial mutagenicity data. Its main purpose is to provide a homogeneous environment for the collection, organization, and analysis of data generated in the laboratory while supporting a quality assurance program. The system controls the data collection and management through a user-friendly menu driven system that requests specific information and provides uniform methods for data and information entry. GeneTox Manager is capable of performing specialized statistical analysis of the data and creating tabular and graphical summaries.

Keywords: *Microorganisms, *Mutagenicity tests, *Toxic substances, *Bioassay, Salmonella typhimurium, Chemical analysis, Biochemistry, Mutagenesis, DNA damage, DNA mutational analysis, Chromosomal aberrations, Data collection, Data analysis, Laboratory tests, User manuals(Computer programs), GeneTox computer program.

PB94-197035/REB PC **A06**/MF **A01**
Health Effects Research Lab., Cincinnati, OH.
GeneTox Manager System: Bacterial Mutagenesis Assays: User's Guide. (Version 2.21).
Computer Sciences Corp., Research Triangle Park, NC.
L. D. Claxton, J. Creason, J. Nader, W. Poteat, and J. Orr. cMar 94, 108p EPA/600/R-94/035
Contract EPA-68-WO-0043
See also PB94-501970, PB94-197043, PB94-197050 and PB94-197027. Sponsored by Health Effects Research Lab., Cincinnati, OH.

The user's guide is the reference manual describing use of the EPA GeneTox Manager System. GeneTox Manager is a data capture, data management, and statistical analysis program used for microbial mutagenicity data. Its main purpose is to provide a homogeneous environment for the collection, organization, and analysis of data generated in the laboratory while also supporting a quality assurance program. The system controls the data collection and management through a user-friendly, menu-driven system that requests specific information and provides uniform methods for data and information entry. GeneTox Manager is capa-

ble of performing specialized statistical analysis of the data and creating tabular and graphical summaries.

Keywords: *Microorganisms, *Mutagenicity tests, *Toxic substances, *Bioassay, Bacteria, Salmonella typhimurium, Chemical analysis, Biochemistry, Mutagenesis, DNA damage, DNA mutational analysis, Chromosomal aberrations, Data collection, Data analysis, Laboratory tests, User manuals(Computer programs), GeneTox computer program.

PB94-197043/REB PC **A05/MF A01**
Health Effects Research Lab., Cincinnati, OH.
GeneTox Manager System: Personal Computer Software Programmer's Guide. (Version 2.21).
Computer Sciences Corp., Research Triangle Park, NC.
L. D. Claxton, J. Creason, J. Nader, W. Poteat, and J. Orr. cMar 94, 85p EPA/600/R-94/034
Contract EPA-68-01-7365
See also PB94-501970, PB94-197027, PB94-197050, and PB94-197035. Sponsored by Health Effects Research Lab., Cincinnati, OH.

The programmer's guide is the reference manual for describing software system and programs used in constructing personal computer portion of the EPA GeneTox Manager System. GeneTox Manager is a data capture, data management, and statistical analysis program used for microbial mutagenicity data. Its main purpose is to provide a homogeneous environment for the collection, organization, and analysis of data generated in the laboratory while supporting a quality assurance program. The system controls the data collection and management through a user-friendly menu driven system that requests specific information and provides uniform methods for data and information entry. GeneTox Manager is capable of performing specialized statistical analysis of the data and creating tabular and graphical summaries.

Keywords: *Microorganisms, *Mutagenicity tests, *Toxic substances, *Bioassay, Salmonella typhimurium, Chemical analysis, Biochemistry, Mutagenesis, DNA damage, DNA mutational analysis, Chromosomal aberrations, Data collection, Data analysis, Laboratory tests, User manuals(Computer programs), GeneTox computer program.

PB94-197050/REB PC **A04/MF A01**
Health Effects Research Lab., Cincinnati, OH.
GeneTox Manager System (GENETOX) User's Guide. VAX Component. (Version 2.0).
Computer Sciences Corp., Research Triangle Park, NC.
L. D. Claxton, J. Creason, D. Pendretti, and J. Nader. cMar 94, 67p EPA/600/R-94/032
Contract EPA-68-01-7365
See also PB94-501970, PB94-197043, PB94-197035 and PB94-197027. Sponsored by Health Effects Research Lab., Cincinnati, OH.

This User's Guide is the reference manual describing use of the GeneTox application under the VAX/VMS operating system. GeneTox Manager is a data capture, data management, and statistical analysis program used for microbial mutagenicity data. Its main purpose is to provide a homogeneous environment for the collection, organization, and analysis of data generated in the laboratory while also supporting a quality assurance program. The system controls the data collection and management through a user-friendly menu driven system that requests specific information and provides uniform methods for data and information entry. GeneTox Manager is capable of performing specialized statistical analysis of the data and creating tabular and graphical summaries.

Keywords: *Microorganisms, *Mutagenicity tests, *Toxic substances, *Bioassay, Salmonella typhimurium, Chemical analysis, Biochemistry, Mutagenesis, DNA damage, DNA mutational analysis, Chromosomal aberrations, Data collection, Data analysis, Laboratory tests, User manuals(Computer programs), GeneTox computer program.

PB94-197084/REB PC **A03/MF A01**
Health Effects Research Lab., Research Triangle Park, NC.
Developmental Toxicity and Structure-Activity Relationships of Aliphatic Acids, Including Dose-Response Assessment of Valproic Acid in Mice and Rats. Journal article.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
M. G. Narotsky, E. Z. Francis, and R. J. Kavlock. cFeb 94, 18p EPA/600/J-94/328
Contracts EPA-68-D20056, EPA-68-02-4450
Pub. in Fundamental and Applied Toxicology 22, n2 p251-265 Feb 94. Portions presented at the Annual Meetings of the Teratology Society (28th, 29th and 31st), Palm Beach, FL., Richmond, VA., and Boca Raton, FL., 1988, 1989 and 1991 respectively. Sponsored by Health Effects Research Lab., Research Triangle Park, NC.

The anticonvulsant valproic acid (VPA), or 2-propylpentanoic acid, is a short-chain aliphatic acid that is teratogenic in humans and rodents. VPA and 14 related chemicals were screened for developmental toxicity using the Chernoff/Kavlock assay. Sprague-Dawley rats were gavaged with the test agent in corn oil once daily organogensis. The dams were allowed to deliver and the pups were examined postnatally. Segment II studies were also conducted using VPA and pentanoic acid in rats, and with VPA in CD-1 mice. For both species, VPA caused transient maternal ataxia and developmental defects of the digits and, especially, the axial skeleton. Exencephaly, however, was seen only in mice. All congeners tested induced maternal respiratory effects and six compounds caused motor depression. These data indicate a broader specificity for activity in the maternal system than in the embryo and suggest differing mechanisms for the two effects.

Keywords: *Toxicity, *Aliphatic acids, *Valproic acid, Rats, Biological effects, Drug-induced abnormalities, Maternal health, Fetal development, Oral administration, Acute exposure, Mice, Teratogens, Assays, Embryos, Skeleton, Anticonvulsants, Reprints, Dipropyl acetate, 2-Propylentanoic acid, 2-Ethylhexanoic acid, Structure-activity relationships.

PB94-197092/REB PC **A02/MF A01**
Theoretical Investigation into the Potential of Halogenated Methanes to Undergo Reductive Metabolism. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Pharmacokinetics Branch.
C. L. Waller, and J. D. McKinney. cDec 93, 7p EPA/600/J-94/327
Pub. in Jnl. of Computational Chemistry, v14 n12 p1575-1579 Dec 93.

The density-functional theory (DFT) based computational chemistry software package DMol was used to provide insight into the reductive potentials of a series of halomethanes. It is known that certain members of this series are readily reduced in vivo via catalysis by cytochrome P450. DMol was used to calculate the electron affinities of these molecules to be used as measures of their reduction potentials. Our results are consistent with experimental electrochemical reduction potentials and indicate that electron affinity is dependent upon the number and type of halogens present in the molecule. Concurrent with this study was the discovery of a linear empirical relationship between electron affinity and the lowest unoccupied molecular orbital (LUMO) energy. It is possible that these values could be used as indicators of reductive potentials and ultimately of metabolic rates for use in PB-PK models designed to predict the dose associated with the toxicity of molecules of this and other classes.

Keywords: *Halohydrocarbons, *Methane, *Redox potential, *Quantum chemistry, Reprints, Metabolism, Electrochemistry, Molecular orbitals, Computer software, Electron density(Concentration), Affinity, Anaerobic conditions, Computation, Toxic substances, Toxicity, Health hazards, *DMol computer program, *DFT(Density-functional theory), *Density-functional theory, *Reduction potentials.

PB94-197100/REB PC **A03/MF A01**
Application of SAR Methods to Non-Congeneric Data Bases Associated with Carcinogenicity and Mutagenicity: Issues and Approaches. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Carcinogenesis and Metabolism Branch.
A. M. Richard. cFeb 94, 29p EPA/600/J-94/326
Pub. in Mutation Research 305, n1 p73-97 Feb 94. Also pub. as International Commission for Protection against Environmental Mutagens and Carcinogens, Rijswijk (Netherlands) rept. no. ICPEMC-LN-0103. Prepared in cooperation with International Commission for Protection against Environmental Mutagens and Carcinogens, Rijswijk (Netherlands).

The highly structurally diverse nature of current carcinogenicity and mutagenicity data bases has motivated development of more general structure-activity relationships (SAR) approaches, potentially applicable to the treatment of diverse, non-congeneric mutagenicity and carcinogenicity data bases. Three specific approaches are considered in some detail--Ashby's structural alerts model, classified as a 'rule-based' SAR approach, and the computerized CASE fragment-based method and TOPKAT linear discriminant equation method, both classified as 'correlative' SAR approaches. Relative strengths and limitations, and a number of common features and important distinctions between these 3 methods are discussed. Finally, problems in comparing the relative predictive capabilities of different SAR approaches are discussed, and strategies for SAR investigation involving integration of existing techniques are suggested.

Keywords: *Carcinogens, *Mutagens, *Toxicology, *Structure-activity relationships, Data bases, Models, Reprints, TOPKAT(TOxicity Prediction by Komputer Assisted Technology) method, CASE(Computer Automated Structure Evaluator) method.

PB94-197118/REB PC **A03/MF A01**
Health Effects Research Lab., Research Triangle Park, NC.
Mathematical Model for Aerosol Deposition in the Respiratory Tract of the Guinea Pig. Journal article.
North Carolina Univ. at Chapel Hill. Center for Environmental Medicine and Lung Biology.
T. B. Martonen, and Y. Yang. cFeb 94, 21p EPA/600/J-94/325
Pub. in Inhalation Toxicology 6, n1 p1-19 Feb 94. Sponsored by Health Effects Research Lab., Research Triangle Park, NC.

Laboratory animals are used as surrogates in inhalation exposure studies for (1) risk assessments of air pollutants and (2) evaluations of pharmacologic drugs. Herein, a mathematical model is presented that identifies factors affecting the regional distributions of inhaled aerosols within the complete respiratory system of the guinea pig. The model couples empirical and deterministic techniques. An original empirical formula is presented to describe particle losses in airways of the head and throat. Regarding the lung, its structure is defined using the asymmetric morphology of Schreider and Hutchens (1980), and deposition is calculated in a deterministic manner using the protocol of Martonen et al. (1992a, 1992b). Results of our deposition model are compared separately with the theory of Schreider and Hutchens (1979) and the experimental data of Raabe et al. (1988). Results of the deposition model presented herein are in qualitative agreement with the laboratory data of Raabe et al. (1988). Quantitative differences in desposition values may be attributable to different strains of guinea pig being used in the repective morphological and deposition studies. By identifying the factors that most affect the behavior of inhaled particles, our deposition model can aid in the design of inhalation exposure experiments and interpretation of data.

Keywords: *Aerosols, *Mathematical models, *Respiratory system, *Air pollutants, *Drugs, Reprints, Guinea pigs, Morphology, Inhalation administration.

PB94-197126/REB PC **A03/MF A01**
Health Effects Research Lab., Research Triangle Park, NC.
Homologous Up-Regulation of the Gonadotropin-Releasing Hormone Receptor in alphaT3-1 Cells Is Associated with Unchanged Receptor Messenger RNA (mRNA) Levels and Altered mRNA Activity. Journal article.
Mount Sinai School of Medicine, New York. Dept. of Neurology.
M. Tsutsumi, S. C. Laws, and S. C. Sealfon. cDec 93, 11p EPA/600/J-94/324
Grant NSF-91-06877
Pub. in Molecular Endocrinology 7, n12 p1625-1632 Dec 93. Sponsored by Health Effects Research Lab., Research Triangle Park, NC. and National Science Foundation, Arlington, VA.

The role of altered biosynthesis was investigated in the mouse gonadotrope cell line, by studying the homologous up-regulation of GnRH receptor binding, mRNA levels, and mRNA activity. After GnRH exposure, ligand binding was performed on cell membranes. To correlate changes in receptor number and measurements of biosynthetic activity, GnRH receptor mRNA levels were quantitated by solution hybridization/RNase protection assay and Northern blot analysis, and the capacity of RNA from treated cells to direct the synthesis of new receptors (mRNA activity) was evaluated using a Xenopus oocyte-based bioassay. The authors' results show that although the levels of GnRH receptor mRNA do not vary, treated cells with increased binding capacity show a corresponding increase in cellular GnRH receptor mRNA activity in oocytes.

Keywords: *Messenger RNA, *Up-regulation(Physiology), *Gonadarelin, Genetic translation, Post-transcriptional RNA processing, Genetic transcription, Northern blotting, Pituitary gland, Cultured cells, Reprints.

PB94-197134/REB PC **A03**/MF **A01**
Effects of Methanol on Embryonic Mouse Palate in Serum-Free Organ Culture. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Developmental Toxicology Div.
B. D. Abbott, T. R. Logsdon, and T. S. Wilke. c1994, 16p EPA/600/J-94/323
Pub. in Teratology 49, n2 p122-134 Feb 94. See also PB92-188960. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC.

The present study examines the developmental toxicity of methanol in the palate using a serum-free organ culture model. Gestation day 12 CD-1 mouse embryos were dissected and mid-craniofacial tissues were cultured in BGJ medium at 37 C for 4 days with medium changes at 24 hr intervals. Cultures were exposed to methanol from 0-20 mg/ml for 6 hr, 12 hr, 1 or 4 days. Some cultures were exposed to ethanol for 4 days at doses ranging from 0-15 mg/ml. All cultures were gassed with a 50% O2, 5% CO2, and 45% N2 upon addition of fresh medium and prior to the addition of alcohol. In general the ethanol was more potent than methanol for inhibition of protein and DNA synthesis and palatal fusion. The study demonstrated that methanol can selectively affect specific sensitive cell populations and has effects on proliferation and cell fate.

Keywords: *Teratogenic compounds, *Methanol, *Organ culture, *Cleft palate, Ethanol, Embryo, Serum-free culture media, Growth, Morphology, Proteins, Deoxyribonucleic acids. Reprints.

PB94-197142/REB PC **A03**/MF **A01**
Thermoregulatory Effects of Chlorpyrifos in the Rat: Long-Term Changes in Cholinergic and Noradrenergic Sensitivity. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Neurotoxicology Div.
C. J. Gordon. 15 Jul 93, 12p EPA/600/J-94/322
Pub. in Neurotoxicology and Teratology, v16 n1 p1-9 Jan 94.

Subcutaneous injection of a sublethal dose of chlorpyrifos (CHLP), an organophosphate (OP) pesticide, causes long-term inhibition in cholinesterase activity (ChE) of brain, blood, and other tissues. Such prolonged inhibition in ChE should lead to marked behavioral and autonomic thermoregulatory patterns, especially in terms of altered noradrenergic and cholinergic sensitivity. To evaluate the behavioral and autonomic effects of long-term ChE inhibition, Long-Evans rats were implanted with radiotelemetry transmitters that continuously monitored core temperature (Tc), heart rate (HR), and motor activity (MA). These parameters were monitored for 7 days following a single injection of peanut oil (vehicle control) or 280 mg/kg CHLP. CHLP led to a significant reduction in Tc during the first night after treatment but had no other effects on Tc. CHLP also resulted in a significant elevation in HR which lasted for about 72 h. Motor activity was unaffected by CHLP. Cholinergic and noradrenergic drug sensitivity was assessed between 7 and 25 days after CHLP. CHLP-treated rats were more sensitive to norepinephrine as based on a greater hyperthermic response. MA of CHLP-treated rats was more sensitive to scopolamine. On the other hand, the hypothermic effects of oxotremorine (0.4 mg/kg) were nearly abolished by CHLP treatment, indicating tolerance to cholinergic stimulation. The tachycardic effects of methylscopolamine were also greater in the CHLP group. Overall, the acute effects of CHLP are unusual compared to other OPs in that there is no hypothermic response, an attenuated nocturnal elevation in Tc and a prolonged elevation in HR. The CHLP treated rat exhibits a prolonged elevation in HR, hypersensitivity to noradrenergic stimulation and cholinergic antagonism but hyposensitivity to central cholinergic stimulation. (Copyright (c) 1994 Elsevier Science Ltd.)

Keywords: *Toxicology, *Body temperature regulation, *Cholinergic receptors, *Pesticides, *Dursban, *Norepinephrine, Rats, Motor activity, Heart rate, Cholinesterase inhibitors, Scopolamine, Reprints.

PB94-197159/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Neurotoxicology Div.
Cognitive and Neuroanatomical Effects of Triethyltin in Developing Rats: Role of Age of Exposure. Research Report. Journal article.
North Carolina Univ. at Chapel Hill. Dept. of Psychology.
J. H. Freeman, S. Barone, and M. E. Stanton. cFeb 94, 13p EPA/600/J-94/321
Contract EPA-68-D2-0056
Pub. in Brain Research 634, n1 p85-95 Feb 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Neurotoxicology Div.

Long-Evans rat pumps were injected i.p. on postnatal day 5 (PND5) or 12 with 0, 3, or 5 mg/kg triethyltin sulfate (TET) and then tested on T-maze delayed alternation on PND21 or 28. Delayed alternation learning was impaired on PND21 and 28 in pups given 5 mg/kg TET. Pups given 5 mg/kg TET on PND5 were more impaired on delayed alternation than pups given 5 mg/kg TET on PND12. Pups given 3 mg/kg TET on PND5 or 12 were unimpaired at either age of testing. On the day following training, pups were sacrificed for histological assessment employing Nissl- or immunohistochemical staining for glial fibrillary acidic protein (GFAP), a putative marker of gliosis. Pups given 5 mg/kg TET on PND5 showed increases in GFAP immunoreactivity (IR) in subiculum, amygdala, hippocampus, piriform cortex, and entorhinal cortex with concomitant decreases in Nissl-stained cells in these regions. Pups given 5 mg/kg TET on PND12 showed increases in GFAP IR in piriform cortex amygdala and dorsal hippocampus with concomitant decreases in Nissl-stained cells in these regions. Exposure to 3 mg/kg TET on PND5 and PND12 produced a mild increase in GFAP IR in piriform cortex and amygdala but no discernible loss of Nissl-staining in these respective regions. TET-induced behavioral deficits appear related to damage of structural correlates of the human temporal lobe and not piriform cortical pathology. These results demonstrate that the day of exposure greatly influences the mangitude of the cognitive deficits and neuropathology associated with exposure to TET.

Keywords: *Triethyltin, *Toxicology, *Brain, *Learning, Exposure, Growth, Anatomy, Glial fibrillary acid protein, Immunohistochemistry, Animal behavior, Histology, Rats, Reprints.

PB94-197167/REB PC **A01**/MF **A01**
Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) on Humoral Immunity and Lymphocyte Subpopulations: Differences between Mice and Rats. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.
R. J. Smialowicz, M. M. Riddle, W. C. Williams, and J. J. Diliberto. c1994, 5p EPA/600/J-94/320
Pub. in Toxicology and Applied Pharmacology, v124 n2 p248-256 Feb 94. Presented at the Annual Meeting of the Society of Toxicology, New Orleans, LA., 1993.

In the study, the effect that 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) has on the antibody plaque-forming cell (PFC) response to sheep red blood cells (SRBC) in adult female B6C3F1 mice and F344 rats was compared. The effect that TCDD has on the PFC response of male F344 and female Long-Evans rats was also determined. Mice or rats were given a single intraperitoneal injection of TCDD at doses ranging from 0.1 to 30 micrograms/kg, 7 days prior to intravenous immunization with SRBC. Four days later the PFC response to SRBC was determined. Results demonstrate species differences in the effect of TCDD on the PFC response to SRBC which were unrelated to hepatic CYP1A1 or CYP1A2 induction, time to peak response, gender, and strain. The failure of TCDD to suppress and in fact to enhance the PFC response to SRBC in rats appears to be related to alterations in splenic CD4(-)CD8(+) lymphocytes.

Keywords: *Tetrachlorodibenzodioxin, *Toxicology, *Immunity, *Lymphocyte subsets, Mice, Rats, Species diversity, Antibody formation, Cytochrome P-450, Reprints.

PB94-197175/REB PC **A02**/MF **A01**
Physiologically-Based Pharmacokinetic Modeling. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Pharmacokinetics Branch.
M. E. Andersen. cJan 94, 10p EPA/600/J-94/319
Pub. in Drug Information Jnl., v28 n1 p247-254 Jan 94.

Physiologically-based pharmacokinetic (PB-PK) models attempt to provide both a realistic anatomic description of the animal to which a drug or toxic chemical has been administered and a biologically accurate representation of the physiological pathways for chemical storage, metabolism, and elimination in the animal. Because these models explicitly incorporate information about the biological factors which affect chemical disposition, they are particularly useful for high- to low-dose and interspecies extrapolation of pharmacokinetics. The complexity of any particular PB-PK model depends on the chemical studied and the objectives underlying model development. The primary focus of the brief overview is the structure of PB-PK models developed for three specific classes of chemicals: volatile organic compounds (VOCs), dioxin-like chlorinated aromatic hydrocarbons, and retinoids. In addition, the risk assessment objectives underpinning model development and the continuing data needs in refining and extending these models are briefly discussed. (Copyright (c) 1994 Drug Information Association Inc.)

Keywords: *Pharmacokinetics, *Physiology, *Biological models, Aromatic hydrocarbons, Chlorohydrocarbons, Metabolism, Dose-response relationships, Species diversity, Risk assessment, Retinoids, Volatile organic compounds, Reprints, *Physiologically-based pharmacokinetic models.

PB94-197183/REB PC **A03**/MF **A01**
Health Effects Research Lab., Research Triangle Park, NC. Neurotoxicology Div.
Comparison of Intracranial Infusions of Colchicine and Ibotenic Acid as Models of Neurodegeneration in the Basal Forebrain. Research Report. Journal article.
North Carolina Univ. at Chapel Hill. Curriculum in Neurobiology.
L. W. Shaughnessy, S. Barone, W. R. Mundy, D. W. Herr, and H. A. Tilson. cFeb 94, 14p EPA/600/J-94/318
Contract EPA-68-D2-5600
Pub. in Brain Research 637, n1 p15-26 Feb 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC. Sponsored by Health Effects Research Lab., Research Triangle Park, NC. Neurotoxicology Div.

Colchicine and ibotenic acid were compared for their ability to produce neurodegeneration and cognitive deficit after bilateral infusions into the nucleus basalis magnocellularis of male Long-Evans rats. Four weeks post-lesion, there was no difference in locomotor activity following infusion of either neurotoxicant or vehicle. In a passive avoidance task, both treated groups had significantly shorter step-through latencies compared with vehicle. Five weeks post-lesion, rats were killed for neurochemistry or histochemistry. Choline acetyltransferase (ChAT) activity in both the frontal and parietal cortex was significantly decreased (25-35%) in the colchicine- and ibotenic acid-infused rats when compared to control. There was no effect of either neurotoxicant on ChAT activity in the hippocampus or striatum. Both neurotoxicants produced damage in the general area of the ventromedial pallidum, although ibotenic acid infusion consistently produced a large area of damage as assessed in Nissl-stained sections. Analysis of the number of ChAT-immunoreactive cells in the nucleus basalis magnocellularis (NBM) showed an average 60% cell loss following colchicine infusion and a 75% cell loss after ibotenic acid infusion. Area of glutamic acid decarboxy-

lase (GAD) staining was significantly decreased in several regions surrounding the NBM for ibotenic acid (51% average decrease), and showed non-significant decreases (28%) following colchicine infusion. Colchicine infusion decreased dopamine and 3,4-dihydroxyphenylacetic acid (DOPAC) in the striatum; ibotenic acid had no effect on brain catechol or indoleamine levels. The results indicate that although similar cholinergic hypofunction and behavioral deficits were achieved, several non-cholinergic differences between the neurotoxicants were detected. (Copyright (c) 1994 Elsevier Sciences B.V.)

Keywords: *Colchicine, *Toxicology, *Prosencephalon, *Cognition disorders, *Ibotenic acid, Comparison, Choline acetyltransferase, Immunohistochemistry, Catecholamines, Animal behavior, Reprints.

PB94-197191/REB PC **A03**/MF **A01**
Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.
Chemical Characterization and Disposition Studies with 1,2,7,8-Tetrabromodibenzofuran in the Rat. Journal article.
North Carolina Univ. at Chapel Hill. Curriculum in Toxicology.
L. B. Kedderis, J. A. Jackson, D. G. Patterson, J. Grainger, and J. J. Diliberto. cJan 94, 19p EPA/600/J-94/317
Grant EPA-R817643
Pub. in Jnl. of Toxicology and Environmental Health 41, n1 p53-69 Jan 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC. and Centers for Disease Control and Prevention, Atlanta, GA. Div. of Environmental Health Lab. Sciences. Sponsored by Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.

The present studies were designed to characterize the chemical disposition of a tetrabrominated dibenzofuran. The isomer-specific pattern of 1,2,7,8-tetrabromodibenzofuran (TBDF) was chemically characterized using high-pressure liquid chromatography, gas chromatography/mass spectrometry, infrared absorption, and proton nuclear magnetic resonance techniques. The absorption, distribution, and elimination of 1,2,7,8-(4,6-(3)H)-TBDF were examined in the rat following a single oral, dermal, or intravenous dose of 1 nmol/kg. The decline in hepatic concentrations observed in the iv and bile studies occurred in conjunction with metabolic elimination as well as a slight accumulation in adipose tissue. Dermal absorption of 1,2,7,8-TBDF, quantified as the amount contained in tissues (excluding the skin site) and excreta at 72h, was estimated to be 29% of the administered dose. Thus, the general disposition profile of 1,2,7,8-TBDF in the rat is similar to that of other polyhalogenated aromatic hydrocarbons. Due to its rapid elimination, which is consistent with its predicted susceptibility to metabolic elimination, acute exposure to 1,2,7,8-TBDF would not be expected to result in the degree of toxicity associated with other more persistent congeners.

Keywords: *Toxicology, Pharmacokinetics, Nuclear magnetic resonance, Rats, Pollutants, High pressure liquid chromatography, Mass fragmentography, Infrared spectroscopy, Bile, Skin(Anatomy), Absorption, Reprints, *Tetrabromodibenzofurans.

PB94-197209/REB PC **A03**/MF **A01**
Spermatid Micronucleus Analyses of Trichloroethylene and Chloral Hydrate Effects in Mice. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Genetic Toxicology Div.
J. W. Allen, B. W. Collins, and P. A. Evansky. cFeb 94, 13p EPA/600/J-94/316
Pub. in Mutation Research Letters 323, n2 p81-88 Feb 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC.

Mice were exposed by inhalation to trichloroethylene (TCE) or by i.p. injection to the TCE metabolite, chloral hydrate (CH). Early spermatids were analyzed for micronucleus (MN) frequency and the presence or absence of kinetochore(s) using fluorochrome-labeled anti-kinetochore antibodies. It was determined that 5 consecutive days of exposure to 5, 50 or 500 ppm TCE during preleptotene through early pachytene stages of meiotic cell development do not result in increased frequencies of spermatid MN. CH at 41, 83 or 165 mg/kg was positive for spermatid MN induction when treatments corresponded to spermatogonial stem cell or preleptotene spermatocyte stages of development; negative results were obtained after treatments of leptotene-zygotene or diakinesis-metaphase stages. The significantly increased levels of MN observed were invariably of the kinetochore-negative type. (Copyright (c) 1994 Elsevier Science B.V.)

Keywords: *Toxicology, *Micronucleus tests, *Spermatids, *Chloral hydrate, *Trichloroethylene, Chromosome deletion, Mice, Antibodies, Dose-response relationships, Meiosis, Reprints.

PB94-197415/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Total Human Exposure Model (THEM) for Respirable Suspended Particles (RSP).
Stanford Univ., CA. Dept. of Statistics.
N. E. Klepeis, W. R. Ott, and P. Switzer. 1994, 17p EPA/600/A-94/146
Grant EPA-R-818311
See also PB91-216242. Presented at an annual Air and Waste Management Association meeting. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

A Total Human Exposure Model (THEM) has been developed that calculates 24-hour exposure profiles using real human activity patterns and indoor air models derived from actual measurements of pollutants. THEM was designed for implementation on personal computers. These data include diaries of over 1700 adults and children that contain coded information on locations and activities. The diary codes correspond to locations in factories, offices, restaurants and homes (room specific) and activities such as cooking, cleaning and being in the presence of a smoker. THEM determines RSP exposure by taking the location and activity information from the CAP data and assigning RSP levels for (1) Environmental Tobacco Smoke (ETS), (2) cooking, (3) cleaning, and (4) ambient levels (from motor vehicles and wood smoke). Actual RSP levels are obtained from real microenvironmental measurements conducted recently in over 300 locations. For ambient data, actual hourly diurnal particulate measurements are obtained from a continuous monitoring instrument. THEM computes RSP exposures from ETS using validated models based on the mass balance equation. Source strengths, smoking rates, room air exchange rates and room volumes are incorporated into the model by randomly sampling from actual distributions of data.

Keywords: *Human activities, *Indoor air pollution, *Environmental exposure pathway, Smoke, Air pollution sources, Air pollution monitoring, Public health, Risk assessment, Air pollution effects(Humans), Environmental monitoring, Population distributions, Time series analysis, Monte Carlo method, Statistical analysis, Reprints, *Activity patterns, RSP(Respirable Suspended Particles), THEM(Total Human Exposure Model), THEM computer model, Exposure assessment, ETS(Environmental Tobacco Smoke).

PB94-197423/REB PC **A03**/MF **A01**
Constant Volume Sampling System Water Condensation. SAE Technical Paper Series.
Environmental Protection Agency, Research Triangle Park, NC. Mobile Source Emissions Research Branch.
F. Black, and R. Snow. c1994, 13p EPA/600/A-94/145
Presented at the Society of Automotive Engineers International Congress and Exposition, Detroit, MI., February 28-March 3, 1994. See also PB84-104702 and PB94-114899. Prepared in cooperation with ManTech Environmental Technology, Inc., Research Triangle Park, NC.

Combustion of organic motor vehicle fuels produces carbon dioxide and water (H20) vapor (and also products of incomplete combustion, e.g. hydrocarbons and carbon monoxide, at lower concentrations). The Constant Volume Sampling (CVS) system, commonly used to condition auto exhaust for sampling and analysis, provides for controlled ambient air dilution of the engine exhaust. Water condensation can be a problem during CVS system sample conditioning, depending upon vehicle fuel composition and fuel economy, and diluent air humidity and exhaust/diluent ratio. The paper describes a 'spreadsheet' procedure for detailed, second by second, determination of diluted exhaust dew point and the necessary CVS system flow rates to avoid H20 vapor condensation. (Copyright (c) 1994 Society of Automotive Engineers.)

Keywords: *Alternative fuels, *Vapor condensation, *Exhaust emissions, *Automobile exhaust, *Combustion products, Flow rate, Air pollution control, Exhaust gases, Motor vehicle engines, Fuel economy, Test stands, Water, Humidity, Dyanmometers, Ethanols, Reprints, CVS(Constant Volume Sampling), FTP(Federal Test Procedure), CNG(Compressed Natural Gas).

PB94-197431/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Downwash of Plumes in the Vicinity of Buildings: A Wind-Tunnel Study (Book Chapter). Conference proceedings.
National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div.
W. H. Snyder. c1994, 15p EPA/600/A-94/144
Pub. in Recent Research Advances in the Fluid Mechanics of Turbulent Jets and Plumes, p343-356 1994. Proceedings of NATO Advanced Res. Workshop, Portugal, June 28-July 2, 1993. See also PB81-201410 and PB93-212819. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

A wind-tunnel study has been conducted to examine the effects of several parameters on the downwash of effluents released from stacks in the vicinity of rectangular-shaped buildings. The situations modeled included idealized or generic steam-boiler and combustion-turbine electric-generating plants. Systematically varied were parameters such as the stack height, location of stack, wind direction, effluent-speed to wind-speed ratio, and effluent buoyancy. Measurements included over 300 concentration profiles. Vertical profiles were measured at a fixed distance downwind, both in the presence and in the absence of the buildings, to ascertain the building effects. In several of the more interesting cases, more extensive measurements were made to more fully describe the entire concentration field. The data set should prove especially useful to the mathematicians attempting to develop models to predict concentration fields when a plume is downwashed in the presence of a structure. (Copyright (C) 1994 Kluwer Academic Publishers).

Keywords: *Air pollution dispersion, *Wind tunnel tests, *Electric power plants, *Diffusion monitoring, Air pollution monitoring, Emission factors, Buildings, Stack gases, Plumes, Gaseous wastes, Air flow, Pollution transport, Flow distribution, Wind effects, Turbulent flow, Atmospheric transport, Dissipation, Wind(Meteorology), Mathematical models. Reprints.

PB94-197449/REB PC **A01**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Computational Modeling Issues in Next Generation Air Quality Models.
National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div.
D. W. Byun, D. Hwang, C. J. Coats, M. T. Odman, and R. L. Dennis. 1994, 5p EPA/600/A-94/148
See also PB94-139540 and PB94-158623. Prepared in cooperation with North Carolina Supercomputing Center, Research Triangle Park, NC. and MCNC, Research Triangle Park, NC. Information Technologies Div. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The U.S. Environmental Protection Agency's Atmospheric Research and Exposure Assessment Laboratory is leading a major effort to advance urban/regional multi-pollutant air quality modeling through development of a third-generation modeling system, Models-3. The Models-3 system is being developed within a high-performance computing technology framework to take advantage of developments in science and the computer and communication fields. In the paper, the authors discuss several issues with Models-3 prototype examples. One area of important work is assessing the trade-off between speed and accuracy, either through development of new algorithms or optimizing existing ones to the computer architecture. The authors pro-

vide examples of such work on characterization of numerical algorithms. A second issue is how best to optimize codes for high performance architectures. Finally, the authors compare sensitivity estimation methods such as an automatic differentiation of the air quality model and a simple brute-force sensitivity analysis.

Keywords: *Air quality, *Mathematical models, *Computerized simulation, Computation, US EPA, Photochemistry, Algorithms, Performance evaluation, Decision making, Urban areas, Regional analysis, Prototypes, Sensitivity, Computer architecture, Atmospheric models, Environmental policy.

PB94-197456/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Study of Interferences in Ozone UV and Chemiluminescence Monitors.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
E. E. Hudgens, T. E. Kleindienst, F. F. McElroy, and W. M. Ollison. 1994, 12p EPA/600/A-94/149
Contract EPA-68-D0-0106
Presented at the AREAL/AWMA Symposium on Toxic Air Pollutants, May 3, 1994. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab. and American Petroleum Inst., Washington, DC.

A study was conducted to examine interferences and other measurement anomalies in chemiluminescence and ultraviolet ozone monitors. Previous results had shown that there was a positive deviation in the chemiluminescence monitors and no direct interference with ultraviolet monitors due to the presence of water at non-condensing concentrations. The present study continues this effort, examining both potential positive and negative effects of moisture and other interferences on these monitors. Aromatic compounds and their oxidation products could potentially show a positive interference with ultraviolet monitors, and test measurements were made with aromatics such as toluene, benzaldehyde, and nitrotoluene to determine their possible retention in the ozone scrubber and their absorption in the cell as a function of the humidity. A detailed examination of the scrubbers used in ultraviolet ozone monitors has also been undertaken. Ozone scrubbers that have shown anomalous behavior in the field have been studied in various reduced-efficacy modes under controlled laboratory conditions. Longer term tests of unused scrubbers for possible ozone breakthrough under exposure to various simulated field conditions were initiated.

Keywords: *Air pollution monitors, *Ozone, *Performance evaluation, Air samples, Measuring instruments, Scrubbers, Ultraviolet absorption, Chemiluminescence, Air pollution effects, Moisture, Photochemical reactions, Oxidation, Chemical reaction kinetics, Organic compounds, Reprints.

PB94-197464/REB PC **A03**/MF **A01**
National Human Activity Pattern Survey (NHAPS): Use of Nationwide Activity Data for Human Exposure Assessment.
Maryland Univ., College Park. Survey Research Center.
W. C. Nelson, W. R. Ott, and J. P. Robinson. 1994, 17p EPA/600/A-94/147
Grant EPA-R-816183
Presented at the Air and Waste Management Association Annual Meeting (87th), Cincinnati, OH., June 1994. See also PB89-166599. Prepared in cooperation with Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The National Human Activity Pattern Survey (NHAPS) was initiated to fill a need for updated activity information on a nationwide scale. The NHAPS, which begain in September, 1992, is a two-year probability-based national telephone interview survey of approximately 10,000 persons that is being conducted by the University of Maryland Survey Research Center assisted by the USEPA to ascertain the time, location, and other characteristics of those activities which are most relevant to estimating pollutant exposure. The survey design, location and activity codes, data examples, and appropriate analyses are described for the NHAPS data base. Time-diary data from this survey will provide standardized activity reports which, when available in early 1995, will be used to refine current human exposure models. Activity diary data have been effectively used in the following types of analyses: descriptive, relational, temporal, and exposure modeling. Examples of these analyses will be discussed and illustrated with data from previous activity surveys, including the recently available California survey. The applicability of these previous analyses to the new NHAPS data will be emphasized.

Keywords: *Human activities, *Hazardous materials, *Environmental exposure pathway, Environment pollution, Toxic substances, Public health, Risk assessment, Environmental monitoring, Environmental surveys, Pollution sources, Population distributions, Time series analysis, Multivariate analysis, Statistical analysis, Reprints, *Activity patterns, NHAPS(National Human Activity Pattern Survey), Exposure assessment.

PB94-197472/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Development of an Active Personal Ozone Sampler Using a Hollow Tube Diffusion Denuder.
Harvard School of Public Health, Boston, MA.
A. S. Geyh, J. M. Wolfson, P. Koutrakis, and J. D. Mulik. 1994, 7p EPA/600/A-94/154
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Personal, microenvironmental and indoor ozone monitoring is currently conducted using a lightweight, inexpensive passive sampling device. Although the passive device is adequate for many studies, the authors are developing a relatively light weight active hollow tube diffusion denuder system which increases the sensivity of ozone measurements and reduces effects associated with variations in wind velocity, for improved personal monitoring. The new hollow tube denuder (HTD) system consists of a 1.4(ID) x 10(L) cm etched borosilicate glass tube attached to a small, low-flow, and relatively inexpensive personal pump. Tube diameter and length were chosen to maximize collection efficiency at a sampling rate of 65 mL/min. The tube is coated with a nitrite reagent which has been successfully used with passive ozone samplers.

Keywords: *Ozone, *Air pollution sampling, *Risk assessment, *Indoor air pollution, Health hazards, Measuring instruments, Ions, Chromatography, Air quality data, Occupational exposure, Air pollution monitoring, Humidity, Concentration(Composition), Performance evaluation, Occupational safety and health, HTD(Hollow tube denuder), Personal ozone sampler, LOD(Limit of detection).

PB94-197480/REB PC **A01**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Sampling and Analysis Information Aids for Stationary Source Personnel. Rept. for Dec 92-Dec 93.
Radian Corp., Research Triangle Park, NC.
M. D. Jackson, and L. D. Johnson. 1993, 5p EPA/600/A-94/152
Contracts EPA-68-D1-0010, EPA-68-02-4442
See also PB91-507749 and PB94-155884. Prepared in cooperation with Southern Research Inst., Durham, NC. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The Environmental Protection Agency, in developing and evaluating sampling and analysis methodology for stationary sources, has collected information on availability and applicability of sampling and analytical methods. All of this information is compiled in three reference documents: Stationary Source Sampling and Analysis Directory, Version 2 (SSSADIR), Handbook of GC/MS Data and Information for Selected Clean Air Act Amendments Compounds (Handbook) (PB94-155884), and Literature Review of CAAA Compounds (LitRev). The SSSADIR has information on which sampling and analytical methods to use for organic compounds listed in Title III of the Clean Air Act Amendments (CAAA) of 1990, as well as Appendices VIII and IX of RCRA compounds, and the status of method evaluation for these analytes. The Handbook provides information on the mass spectra of selected CAAA analytes, primary quantitation ions, relative retention times and compatibility of the organic compounds in solution. The LitRev provides information on CAAA compounds for which EPA has no potential methods available but provides suggestions on ways to develop methods.

Keywords: *Air pollution sampling, *Stationary sources, *Chemical analysis, Emission factors, Air samplers, Chemical tests, Organic compounds, Gas chromatography, Mass spectroscopy, Chromatograhic analysis, Spectroscopic analysis, Sample preparation, Test methods, Quality assurance, Pollution regulations, Air pollution standards, Reprints, Clean Air Act Amendments of 1990.

PB94-197498/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Evaluation of Gas Chromatography Detection Systems for Total Gaseous Nonmethane Organic Compounds. Conference proceedings Dec 92-Dec 93.
Radian Corp., Research Triangle Park, NC.
S. B. Philipp, D. P. Dayton, R. G. Merrill, and M. D. Jackson. Dec 93, 9p EPA/600/A-94/151
Contract EPA-68-D1-0010
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Better characterization and control of emissions from stationary sources of compounds under the Clean Air Act Amendments of 1990, Title III could be met by a continuous or semi-continuous measurement of total gaseous nonmethane organic carbon (TGNMOC). A search was initiated to identify detection systems for TGNMOC that are both simple to use and accurate. The measurement of oxygenated organic compounds was of particular interest since they are in many emission sources. Several detector systems, marketed as appropriate for TGNMOC measurement, were identified and evaluated in the laboratory. None of the detection systems evaluated would uniformly measure organic carbon in all types of organic mixtures. While some success was realized for many classes of organic compounds, oxygenated compounds could not be measured in a mixture of other organic compounds.

Keywords: *Air pollution detection, *Organic compounds, *Gas chromotography, Stationary sources, Oxygen organic compounds, Gas detectors, Ionization, Performance evaluation, Carbon, *TGNMOC(Total gaseous nonmethane organic carbon), *Total gaseous nonmethane organic carbon, Catalyzed Flame Ionization Detectors, Thermionic Ionization Detector, Elemental Analyzer, Volatile organic compounds.

PB94-197506/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Field Evaluation of a Modified VOST Sampling Method. Conference proceedings Dec 92-Dec 93.
Radian Corp., Research Triangle Park, NC.
M. D. Jackson, L. D. Johnson, R. G. Fuerst, J. F. McGaughey, and J. T. Bursey. Dec 93, 17p EPA/600/A-94/150
Contract EPA-68-D1-0010
See also PB93-212181, PB93-227163, PB93-227171, PB94-176633 and PB94-197514. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

A field test waste performed to evaluate a possible replacement sorbent for sampling volatile organic compounds in stationary sources using SW-846 Method 0030. On the basis of laboratory results, Anasorb 747 was selected for testing in the field dynamic spiking procedures. The modification of the VOST method uses a single tube containing Anasorb 747 that is preceded by two tubes containing Tenax. The modified VOST method was compared in the field with the VOST method using traditional absorbents. Both the VOST and modified VOST used a quadruple probe and four similar sampling trains. Known amounts of the analytes were introduced into the sampling trains, using the same certified compressed gas cylinder as a source of test compounds. As a general observation, the recovery and precision of most compounds is improved by using the modified VOST procedures.

Keywords: *Air pollution sampling, *Stationary sources, *Chemical analysis, Emission factors, Sample preparation, Chemical tests, Air pollution sources, Gas chromatography, Mass spectroscopy, Chromatographic analysis, Spectroscopic analysis, Air samplers, Charcoal, Sorbents, Substitutes, Quality control, Reprints, *EPA Method 0030, Volatile organic compounds, Thermal desorption, VOST(Volatile Organic Sampling Train).

PB94-197514/REB PC **A02/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Improvements in Preparation of Samples Generated by SW-846 Method 0010. Conference proceedings Dec 92-Dec 93.
Radian Corp., Research Triangle Park, NC.
M. D. Jackson, L. D. Johnson, J. F. McGaughey, D. E. Wagoner, and J. T. Bursey. Dec 93, 8p EPA/600/A-94/153
Contract EPA-68-D1-0010
See also PB91-216184 and PB94-197506. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

A field evaluation study for SW-846 Method 0010 was conducted at a stationary source emission site with a high moisture content. The sampling train media had been prepared according to Method 0010 protocol, so the laboratory procedures were examined in detail for sources of error. The low recoveries were attributed to the presence of the methanol in the final extract. (The methanol is removed from the probe rinses during the laboratory sample preparation process). A proposed method will be presented that permits the physical removal of wet XAD-2 from the sampling trap without the use of methanol and an alternate procedure is provided for removal of methanol from the trap rinse before sample extract concentration.

Keywords: *Air pollution sampling, *Stationary sources, *Chemical analysis, Halogenated hydrocarbons, Emission factors, Sample preparation, Chemical tests, Air pollution sources, Gas chromatography, Mass spectroscopy, Chromatographic analysis, Spectroscopic analysis, Quality control, Reprints, Air samplers, *EPA Method 0010, EPA Method 8270, VOST(Volatile Organic Sampling Train), Semivolatile organic compounds, Modified Method 5 Train.

PB94-197597/REB PC **A03/MF A01**
Transport and Transformation of Hexavalent Chromium Through Soils and into Ground Water. Journal article.
Robert S. Kerr Environmental Research Lab., Ada, OK.
R. W. Puls, D. A. Clark, C. J. Paul, and J. Vardy. c1994, 24p EPA/600/J-94/315
Pub. in Jnl. of Soil Contamination, v3 n2 p203-224 Jun 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Ada, OK. and Coast Guard, Elizabeth City, NC.

A detailed characterization of the underlying and adjacent soils of a chromeplating shop was performed to provide information on the extent of soil and aquifer contamination at the site on the potential for off-site migration and environmental impact. Intact, moist cores were obtained from more than 40 different locations, resulting in more than 200 discrete samples for total metal analysis, selective extraction tests, and adsorption-reduction experiments, to assess the chemical speciation and distribution of chromium on the contaminated soils and its leaching potential. Surface analytical techniques were also used to determine chemical speciation and to further elucidate mineral fractions responsible for retention of the chromium on the soils and sediments. Adsorption and reduction capacities of the saturated aquifer sediments were variable and low, while the unsaturated soils' reduction capacities were much greater and were correlated with depth (decreasing capacity with increasing depth). The soils' adsorption and reduction capacities were eventually overwhelmed, however, and permitted the passage of Cr(VI) into the underlying ground water. (Copyright (c) 1994 AEHS).

Keywords: *Soil contamination, *Ground water, *Path of pollutants, Reprints, Water pollution, Land pollution, Environmental transport, Aquifers, Soil chemistry, Chemical analysis, Chemical reactions, Saturated flow, Unsaturated flow, Saturated soils, Adsorption, Reduction, Iron oxides, Amorphous materials, Subsurface flow, Subsurface drainage, *Hexavalent chromium, Chemical speciation, Unsaturated soils.

PB94-198025/REB PC **A03/MF A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Competitive Adsorption of VOCs and BOM: The Role of Molecular Oxygen. Journal article (Final).
Cincinnati Univ., OH. Dept. of Civil and Environmental Engineering.
G. A. Sorial, P. Cerminara, S. P. Papadimas, M. T. Suidan, and T. F. Speth. cMar 94, 13p EPA/600/J-94/314
Contract EPA-R816700
Pub. in Jnl. of American Water Works Association, p80-90 Mar 94. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The impact of molecular oxygen on the adsorptive capacity of activated carbon for volatile organic compounds (VOCs) was evaluated in the study. Investigations involved VOC solutions in Milli-Q water supplemented with background organic matter (BOM). It was determined that adsorption isotherms for chloroform, chlorobenzene, and dibromo-chloropropane (DBCP) conducted in autoclaved Milli-Q water showed no difference in their adsorption behavior when oxygen was present (oxic condition) or absent (anoxic condition) from the test environment. The presence of BOM reduced the adsoptive capacity of carbon for these compounds. The adsorptive capacity of carbon for the target VOC was further reduced under oxic conditions. The IAST was found to accurately describe anoxic adsorption isotherms for VOCs in BOM. This approach failed to predict this competition for data collected under oxic conditions.

Keywords: *Water purification, *Adsorption, *Activated carbon treatment, *Organic compounds, Reprints, Organic matter, Adsorption isotherms, Chloroform, Chlorobenzenes, Halohydrocarbons, Models, Chemical removal(Water treatment), Drinking water, *BOM(Background organic matter), *Background organic matter, VOCs(Volatile organic compounds), Propane/dibromochloro, IAST(Ideal adsorbed solution theory), Oxic condition, Anoxic condition.

PB94-198033/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Waste Minimization for Equipment Cleaning in the Coated and Laminated Substrate Manufacturing Industry. Rept. for Nov 92-Nov 93.
TRC Environmental Corp., Chapel Hill, NC.
M. Kosusko, B. W. McMinn, and J. B. Vitas. 1993, 12p EPA/600/A-94/156
Contract EPA-68-02-0181
See also PB94-141157. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

This paper discusses the U.S. Environmental Protection Agency's (EPA's) efforts to identify and demonstrate waste minimization opportunities for equipment cleaning in the coated and laminated substrate manufacturing industry. The presented information includes the pollution prevention opportunities identified and a brief summary of data collected during industry observation and demonstration visits. Demonstrations took place at a small batch facility and a small dedicated line facility.

Keywords: *Pollution abatement, *Laminates, *Solvents, *Hazardous materials, *Coatings, *Equipment, Cleaning agents, Substrates, Waste recycling, Manufacturing, Environmental chemical substitutes, Chemical cleaning, Materials recovery, *Waste minimization.

PB94-198041/REB PC **A03/MF A01**
Robert S. Kerr Environmental Research Lab., Ada, OK.
Microbial Indicators of Soil Quality. Book chapter.
Purdue Univ., Lafayette, IN.
R. F. Turco, A. C. Kennedy, and M. D. Jawson. c1994, 18p EPA/600/R-94/155
Contract EPA-R-820502
Proceedings of a symposium held in Minneapolis, MN. on November 4-5, 1992. SSSA Special Publication No. 35. Also pub. as Purdue Univ., Lafayette, IN. Agricultural Experiment Station paper no. 13,687. See also PB93-156198. Prepared in cooperation with Agricultural Research Service, Pullman, WA. Sponsored by Robert S. Kerr Environmental Research Lab., Ada, OK.

Soil microbial processes are an integral part of soil quality. Soil organisms contribute to the maintenance of soil quality in that they control the decomposition of plant and animal materials, biogeochemical cycling of elements such as C, N, P, S, etc.; the formation of soil structure; and the fate of organics applied to soil. A variety of methods are available to assess the microbial status of a soil. There is still a need, however, for a better understanding of biological soil processes and community structure. Moreover, few attempts have been made to define what should be included in a data set of microbial indicators of soil quality. As a consequence, lacking is a complete data set on the microbial portion of soil quality. The challenge ahead is to define the proper data set so that informed management and regulatory decisions can be made. The indicators the authors choose need to respond to perturbations, accurately assess the functioning of the system, indicate temporal or spatial differences, and be cost effective and relatively rapid. One method will not be adequate for all situations. Each assay is an indicator of some portion of soil biology and needs to be selected with considerations of the purpose of the assessment. The task is to identify the minimal number of biological parameters that consider processes as well as the community diversity for the successful estimation of the role of the biotic component in determining soil quality. These methods also will need to be considered in concert with soil physical and chemical measurements. Soil microorganisms are potentially one of the most sensitive markers available to classify and assess soil quality.

Keywords: *Biological indicators, *Soil microorganisms, *Soil profiles, Reprints, Soil microbiology, Assessments, Land use, Decomposition, Biogeochemistry, Biological communities, Ecosystems, Microbial degradation, Species diversity, *Soil quality.

PB94-198157/REB PC **A03/MF A01**
Histopathology, Blood Chemistry, and Physiological Status of Normal and Moribund Striped Bass ('Morone saxatilis') Involved in Summer Mortality ('Die-Off') in the Sacramento-San Joaquin Delta of California. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
G. Young, C. L. Brown, R. S. Nishioka, L. C. Folmar, and M. Andrews. c1994, 22p EPA/600/J-94/339
Pub. in Jnl. of Fish Biology 44, p491-512 1994. Prepared in cooperation with California Univ., Berkeley., Crockett Sports Fishing Center, CA., and IGEN Research Inst., Seattle, WA.

Summer mortalities of juvenile and adult striped bass (Morone saxatilis) occur annually in the San Francisco Bay-Delta system, most commonly in the lower delta area. Preliminary work identified pathological changes in the liver of moribund animals. This study represents a comprehensive survey of tissue pathology, blood chemistry and physiological status of moribund animals in comparison to wild and hatchery-reared bass.

Keywords: *Striped bass, *Animal physiology, *Blood chemical analysis, *Mortality, Reprints, Marine fishes, Marine biology, Toxicology, Histology, Pathology, Pacific Ocean, Assays, Statistical analysis, *Sacramento(California), *Carquinez Strait, *San Francisco Bay, Summary die-off, Morone saxatilis.

PB94-198165/REB PC **A02/MF A01**
X-Cell Pseudotumors in a Hardhead Catfish 'Arius felis' (Ariidae) from Lake Pontchartrain, Louisiana, USA. Journal article.
Environmental Research Lab., Gulf Breeze, FL. Center for Marine and Estuarine Disease Research.
A. Diamant, J. W. Fournie, and L. A. Courtney. c14 Apr 94, 6p EPA/600/J-94/340
Pub. in Diseases of Aquatic Organisms, v18 p181-185 1994. Prepared in cooperation with National Center for Mariculture, Elath (Israel).

An X-cell epidermal lesion is described for the first time from the hardhead catfish Arius felis (Ariidae). The lesion exhibited an unusual growth pattern but did not involve any visceral organs. Histologically, the lesions resembled those previously described for coldwater fishes. This is the first report on X-cell lesions from Lake Pontchartrain, Louisiana, and hardhead catfish

represents the first warmwater species affected with the disease. (Copyright (c) Inter-Research 1994.)

Keywords: *Catfishes, *Animal diseases, *Lake Pontchartrain, Aquatic microbiology, Abnormalities, Cell morphology, Histology, Water temperature, Aquatic animals, Taxonomy, *X cell sudotumors, *Arius felis, *Louisiana(United States), Hardhead catfish, Ariidae.

PB94-198173/REB PC **A02**/MF **A01**
SITE Demonstration of the Toronto Harbour Commissioners Soil Recycling Project. Journal article.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
T. L. Richardson, and L. Ehrenreich. cMay 94, 7p EPA/600/J-94/342
Pub. in Jnl. of Air and Waste Management Association, v44 p727-731 May 94. See also PB94-124674. Prepared in cooperation with Frontier Technical Associates, Buffalo, NY.

The U.S. Environmental Protection Agency (EPA), in cooperation with the Toronto Harbour Commissioners (THC), conducted a Superfund Innovative Technology Evaluation (SITE) demonstration of the THC Soil Recycle Treatment Train. The treatment train consists of three technologies operated in sequence: a soil wash process, a metals removal process, and a biological treatment process. The THC conducted an extensive demonstration of the treatment train at a 55 tons per day pilot plant in order to evaluate an approach for remediation of industrial/commercial sites that are situated in the Toronto Port Industrial District (PID). Three soils were processed during the THC demonstration. The EPA SITE demonstration project examined, in detail, soil processing from one of the sites being evaluated as part of the overall THC project. Contaminants included organic compounds and heavy metals. It has been estimated by THC that as much as 2,200,000 tons of soil from locations within the PID may require some form of treatment due to heavy metal and/or organic contamination that resulted from various industrial processing operations. The objective of the SITE demonstration was to evaluate the technical effectiveness of the process in relation to THC's target criteria. (Copyright (c) 1994 - Air and Waste Management Association).

Keywords: *Superfund, *Waste treatment, Soil treatment, Slurries, Bioreactors, Chelation, Heavy metals, Organic compounds, Industrial wastes, Hazardous materials, Chemical treatment, Biological treatment, Biodegradation, Pollution regulations, Performance evaluation, Technology assessment, Remedial action, Canada, *Soil washing, Toronto(Ontario), Soil recycling treatment train, Innovative treatment technology, SITE(Superfund Innovative Technology Evaluation).

PB94-199890 Not available NTIS
Environmental Protection Agency, Washington, DC.
Simplified Cycle Simulation Model for the Performance Rating of Refrigerants and Refrigerant Mixtures. Final rept.
National Inst. of Standards and Technology (NEL), Gaithersburg, MD. Building Environment Div.
P. A. Domanski, and M. O. McLinden. 1993, 8p
Pub. in International Jnl. of Refrigeration 15, n2 p81-88 1992. See also PB93-130383. Sponsored by Environmental Protection Agency, Washington, DC. and Electric Power Research Inst., Palo Alto, CA.

A simulation program, CYCLE11, which is useful for the preliminary evaluation of the performance of refrigerants and refrigerant mixtures in the vapor compression cycle is described. The program simulates a theoretical vapor-compression cycle and departures from the theoretical cycle as occur in a heat pump and in a refrigerator. The cycles are prescribed in terms of the temperatures of the external heat transfer fluids with the heat exchangers generalized by their average effective temperature differences. The isenthalpic expansion process is assumed. The program includes a rudimentary model of a compressor and a representation of the suction line and liquid line heat exchange. Refrigerant thermodynamic properties are calculated using the Carnahan-Starling-DeSantes equation-of-state. Refrigerant transport properties are not included in the simulations. The program can generate merit ratings of refrigerants for which limited measurement data are available. An example of simulation results stresses the need for careful application of simplified models and consideration for the involved assumptions.

Keywords: *Refrigerants, *Thermodynamic properties, *Models, *Computerized simulation, Equations of state, Mixtures, Computer programs, Transport properties, Heat pumps, Refrigerators, Vapor compression refrigeration cycle, Reprints.

PB94-200813/REB PC **A06**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Fine Pore Diffuser System Evaluation for the Green Bay Metropolitan Sewerage District. Project rept.
RUST Environment and Infrastructure, Sheboygan, WI.
J. J. Marx. Aug 94, 111p EPA/600/R-94/093
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The Green Bay Metropolitan Sewerage District retrofitted two quadrants of their activated sludge aeration system with ceramic and membrane fine pore diffusers to provide savings in energy usage compared to the sparged turbine aerators originally installed. Because significant diffuser fouling was expected, the two diffuser types were closely monitored over an 18-month period. The oxygen transfer efficiencies of the full-scale systems were measured using off-gas techniques. The effects of diffuser fouling and the effectiveness of cleaning procedures were evaluated in the laboratory using dynamic wet pressure and steady-state clean water oxygen transfer tests. Although fouling was significant on both types of diffusers, cost-effective cleaning procedures were developed. The ceramic disc diffuser provided better long-term performance than the membrane tube diffusers, which irreversibly lost oxygen transfer efficiency with time in use. Collectively, the fine pore diffuser systems provided a 30% savings in electrical power usage compared to the original sparged turbine aerators.

Keywords: *Water pollution control, *Sewage treatment plants, *Diffusers, *Off-gas systems, *Industrial waste treatment, Field tests, Fines, Ceramics, Membranes, Fouling, Wisconsin, Activated sludge process, Comparison, Oxygenation, Cleaning, Performance evaluation, Long term effects, Design criteria, *Fine pore aeration systems, Oxygen transfer efficiency, Green Bay(Wisconsin).

PB94-200821/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Oxygen Transfer Efficiency Surveys at the Jones Island Treatment Plants, 1985-1988. Project rept.
Milwaukee Metropolitan Sewerage District, WI.
R. Warriner. Aug 94, 65p EPA/600/R-94/094
See also PB92-150366 and PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Ceramic plate diffusers were among the earliest forms of fine pore diffusers used for oxygen transfer in activated sludge treatment. They have been successfully used for over 60 years in the Jones Island West Plant of the Milwaukee Metropolitan Sewerage District and, since initial start-up, in the Jones Island East Plant and the South Shore Plant. Surveys of performance of these diffusers in all three plants were included in the EPA/ASCE Fine Pore Aeration Project. This report presents the results of off-gas sampling surveys carried out at the original Jones Island West Plant and in the newly rehabilitated East Plant. The West Plant basins were scheduled for rehabilitation in 1989-90.

Keywords: *Sewage treatment plants, *Oxygenation, *Diffusers, *Off-gas systems, Surveys, Performance evaluation, Fines, Field tests, Environmental transport, Quality assurance, Quality control, Wisconsin, Activated sludge process, Aeration, *Fine pore aeration systems, *Oxygen transfer efficiency, Jones Island Treatment Plants, Ceramic plate diffusers, Milwaukee(Wisconsin).

PB94-200839/REB PC **A08**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Fine Pore Diffuser Fouling: The Los Angeles Studies. Project rept.
California State Univ., Los Angeles.
M. K. Stenstrom, and G. Masutani. Aug 94, 159p EPA/600/R-94/095
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

This report describes five fine pore diffuser evaluations conducted at three different wastewater treatment plants located in the greater Los Angeles area. The overall goal of the study was to evaluate the performance of fine pore diffusers using selected cleaning methods for extended periods of time at selected treatment plants. The major part of this study was conducted at the Whittier Narrows Water Reclamation Plant, which is operated by the Los Angeles County Sanitation Districts. This study evaluated fine pore ceramic disk and dome aeration systems using Hcl acid gas cleaning and a dome aeration systems without acid gas cleaning over a 25-month period. A second study, smaller in scope and effort, was conducted at the Valencia Water Reclamation Plant (also operated by the Districts). This study evaluated fine pore plastic disk diffusers over a 13-month period. A third study, also smaller in scope and effort than the Whittier Narrows study, was conducted at the Terminal Island Wastewater Treatment Plant, operated by the City of Los Angeles. In this study, the performance of two membrane tube diffusers was evaluated over a 12-month period. This report summarizes the performance of six different aeration systems. The principal indicator of performance was oxygen transfer efficiency, as measured through off-gas analysis. For the Whittier Narrows study, changes in diffuser characteristics are also reported.

Keywords: *Sewage treatment plants, *Fouling, *Off-gas systems, *Diffusers, Activated sludge process, Field tests, Performance evaluation, Cleaning, Fines, Gas sampling, California, Membranes, Oxygenation, Porosity, Experimental design, Energy efficiency, Aeration, *Fine pore aeration diffusers, Los Angeles(California), Whittier Narrows Water Reclamation Plant, Valencia Water Reclamation Plant, Terminal Island Wastewater Treatment Plant.

PB94-200847/REB PC **A06**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Oxygen Transfer Studies at the Madison Metropolitan Sewerage District Facilities. Project rept.
Wisconsin Univ.-Madison. Dept. of Civil and Environmental Engineering.
W. C. Boyle, A. Craven, W. Danley, and M. Rieth. Aug 94, 118p EPA/600/R-94/096
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Field studies at the Madison Metropolitan Sewerage District facilities were conducted over a 3-year period to obtain long-term data on the performance of fine pore aeration equipment in municipal wastewater. The studies were conducted on several basins in the East Plant containing ceramic domes installed in 1977 and two sets of first-pass basins in the West Plant with newly installed ceramic discs. The performance of the domes was excellent even after 10 years of service. The conclusion was based on measured oxygen transfer efficiencies by off-gas analysis, alpha calculations, and diffuser characterization. Reasons for excellent performance included routine maintenance of the diffusers and the use of high quality ceramic diffusers and hardware. There was evidence presented in the plant that operation at high SRTs (low F/M loadings), which produced complete nitrification, resulted in higher alpha Standard Oxygen Transfer Efficiency (alpha SOTE) values than operations at low SRTs. Studies on the impact of diffuser cleaning and hydraulic flow patterns on performance were also reported.

Keywords: *Sewage treatment plants, *Oxygenation, *Diffusers, *Off-gas systems, Gas sampling, Performance evaluation, Aeration, Field tests, Wisconsin, Activated sludge process, Ceramics, Fines, Long term effects, Maintenance, Cleaning, *Fine pore aeration systems, *Oxygen transfer efficiency, Madison(Wisconsin).

PB94-200854/REB PC **A07**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Long-Term Performance Characteristics of Fine Pore Ceramic Diffusers at Monroe, Wisconsin. Project rept.
Ewing Engineering Co., Milwaukee, WI.

D. T. Redmon, L. Ewing, G. V. Ellefson, and H. Melcer. Aug 94, 140p EPA/600/R-94/097
See also PB90-125204. Prepared in cooperation with Environmental Protection Service, Burlington (Ontario). Waste Water Technology Centre. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

A study of the fine pore aeration system at the Monroe, Wisconsin wastewater treatment plant was conducted to monitor, over a 2-year period, the oxygen transfer efficiency (OTE) and fouling tendencies of four different effective pore size ceramic discs. The plant treats a mixture of municipal and industrial wastes. Major industrial contributions stem from breweries, dairies, and cheese plants that account for approximately half the organic load to the plant. The average plant flow during the study was 2.2. mgd, and the average influent BOD was 400 mg/L.

Keywords: *Sewage treatment plants, *Diffusers, *Industrial waste treatment, *Water pollution control, Off-gas systems, Long term effects, Field tests, Wisconsin, Performance evaluation, Activated sludge process, Cleaning, Oxygenation, Fines, Fouling, Ceramics, Surveys, *Fine pore aeration systems, *Oxygen transfer efficiency, Monroe(Wisconsin).

PB94-200862/REB PC **A07**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Case History of Fine Pore Diffuser Retrofit at Ridgewood, New Jersey. Project rept.
Manhattan Coll., Bronx, NY.
J. A. Mueller, and P. D. Saurer. Aug 94, 148p EPA/600/R-94/098
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

In April 1983, the Ridgewood, New Jersey Wastewater Treatment Plant underwent a retrofit from a coarse bubble to a fine pore aeration system. Also, process modification from contact stabilization to tapered aeration occurred. The report presents a case history of plant and aeration performance of each system from 1981 through 1986. Extensive aeration studies were conducted on the fine pore aeration system in 1985 and 1986 to highlight the changing oxygen transfer efficiency with time and evaluate cleaning frequency requirements to maintain the efficiency at a viable level. An economic evaluation including bid prices, maintenance costs, and payoff period based on power savings is included.

Keywords: *Sewage treatment plants, *Diffusers, Case studies, Field tests, New Jersey, History, Aeration, Performance evaluation, Retrofitting, Fines, Oxygenation, Cleaning, Economic analysis, *Fine pore aeration systems, Ridgewood(New Jersey).

PB94-200670/REB PC **A03**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Oxygen Transfer Efficiency Surveys at the South Shore Wastewater Treatment Plant, 1985-1987. Project rept.
Milwaukee Metropolitan Sewerage District, WI.
R. Warriner. Aug 94, 38p EPA/600/R-94/099
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Ceramic plate diffusers were among the earliest forms of fine pore diffusers used for oxygen transfer in activated sludge treatment. They have been successfully used for over 60 years in the Jones Island West Plant of the Milwaukee Metropolitan Sewerage District and, since initial start-up, in the Jones Island East Plant and the South Shore Plant. Surveys of performance of these diffusers in all three plants were included in the EPA/ASCE Fine Pore Aeration Project. This report presents the results of 20 off-gas sampling surveys carried out at the South Shore Wastewater Treatment Plant.

Keywords: *Oxygenation, *Sewage treatment plants, *Diffusers, *Off-gas systems, Field tests, Activated sludge process, Wisconsin, Cleaning, Gas sampling, Performance evaluation, Surveys, *Oxygen transfer efficiency, *Fine pore aeration systems, *South Shore Wastewater Treatment Plant, *Ceramic plate diffusers, Milwaukee(Wisconsin).

PB94-200688/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Fine Pore Diffuser Case History for Frankenmuth, Michigan. Project rept.
McNamee, Porter and Seeley, Ann Arbor, MI.
T. A. Allbaugh, and S. J. Kang. Aug 94, 63p EPA/600/R-94/100
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Frankenmuth is a community of 4,000 people in central Michigan. About 25-30% of the flow and 50-70% of the BOD load to the wastewater treatment plant are contributed by a brewery. In January 1986, conversion from a stainless steel broad band coarse bubble diffuser system to fine pore aeration was completed in all of the six existing aeration tanks. The Frankenmuth retrofit was designed with in-situ wastewater oxygen transfer efficiencies (OTE) at average air flow and peak flow based on off-gas tests at other locations. These values were adjusted to account for the significant high strength industrial component of the influent wastewater. The design OTE at 2 scfm/diffuser was only two-thirds that used at 1 scfm/diffuser (alpha SOTEs of 16.9% and 11.0%, respectively). In spite of lower than expected OTEs, the Frankenmuth retrofit to fine pore diffusers was an economic success. The actual capital cost of installation was slightly more than estimated during the evaluation period, but the projected energy savings appeared to be slightly greater as well.

Keywords: *Sewage treatment plants, *Diffusers, *Industrial waste treatment, *Water pollution control, Case studies, History, Michigan, Aeration, Performance evaluation, Retrofitting, Field tests, Fines, Off-gas systems, Gas sampling, Fouling, Oxygenation, Economic analysis, *Fine pore aeration systems, Frankenmuth(Michigan), SOTE(Standard Oxygen Transfer Efficiency).

PB94-200696/REB PC **A07**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Off-Gas Analysis Results and Fine Pore Retrofit Information for Glastonbury, Connecticut. Project rept.
Aeration Technologies, Inc., North Andover, MA.
R. G. Gilbert, and R. C. Sullivan. Aug 94, 129p EPA/600/R-94/101
See also PB94-200938 and PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

In the summer of 1984, the Glastonbury, Connecticut Water Pollution Control Plant underwent a retrofit from a spiral roll coarse buble to a spiral roll fine pore aeration system. Only diffuser replacement was performed in the aeration tanks. From November 1985 through September 1988, on-site studies were performed using off-gass analysis as part of the ASCE/EPA Fine Pore Aeration Project. This report presents the results of over 160 off-gas tests together with a case history of the retrofit to upgrade the aeration system. Historical information, retrofit evolution and implementation, aeration performance after the retrofit, and comparison of performance with pre-retrofit data are included in the report.

Keywords: *Sewage treatment plants, *Off-gas systems, *Diffusers, Field tests, Performance evaluation, Oxygenation, Activated sludge process, History, Gas sampling, Retrofitting, Comparison, Fines, Quality assurance, Quality control, Connecticut, Aeration, *Fine pore aeration diffusers, Glastonbury(Connecticut).

PB94-200904/REB PC **A07**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Measurement and Control of Fouling in Fine Pore Diffuser Systems. Project rept.
Southern Methodist Univ., Dallas, TX.
E. L. Barnhart, and M. Collins. Aug 94, 136p EPA/600/R-94/102
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The purpose of the study was two-fold: first, to define the efficiency of various methods of cleaning fine pore diffusers and, second, to develop a methodology that could be used to evaluate the efficiency of the cleaning techniques. Dirty fine pore domes from the North Texas Municipal Water District were cleaned by a variety of techniques, and the improvement in oxygen transfer efficiency was measured. The domes were reinstalled in the aeration tanks and withdrawn at various time intervals thereafter. The deterioration in oxygen transfer efficiency was then noted. The cleaning techniques were repeated, and the improvement in transfer was recorded.

Keywords: *Sewage treatment plants, *Diffusers, *Fouling, *Cleaning, Field tests, Fines, Aeration, Performance evaluation, Oxygenation, Texas, Design criteria, Activated sludge process, *Fine pore aeration systems, Oxygen transfer efficiency.

PB94-200912/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Fouling of Fine Pore Diffused Aerators: An Interplant Comparison. Project rept.
Michigan Technological Univ., Houghton.
C. R. Baillod, and K. Hopkins. Aug 94, 64p EPA/600/R-94/103
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

There has been increasing interest in fine pore aeration systems, along with concern about diffuser fouling and the subsequent loss of aeration efficiency. The objective of the study was to assess the relative fouling tendency of fine bubble diffusers at nine activated sludge treatment plants. A secondary objective was to relate fouling to mixed liquor and process parameters. A standardized diffuser test header containing four removable diffusers was installed at each of the participating plants. Diffusers were periodically removed and tested for oxygen transfer efficiency (OTE), bubble release vacuum (BRV), dynamic wet pressure (DWP), foulant accumulation, and increase in OTE after acid cleaning.

Keywords: *Sewage treatment plants, *Diffusers, *Fouling, *Aerators, Comparison, Field tests, Fines, Oxygenation, Activated sludge process, Performance evaluation, Cleaning, *Fine pore aeration systems.

PB94-200920/REB PC **A05**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Survey and Evaluation of Porous Polyethylene Media Fine Bubble Tube and Disk Aerators. Project rept.
Houck (D.H.) Associates, Inc., Silver Spring, MD.
D. H. Houck. Aug 94, 79p EPA/600/R-94/104
See also PB82-237751 and PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Historically, while alternative media materials have been employed over the years with varying degrees of success, the principal fine pore diffuser medium has been porous ceramic. In the early-to-mid 1970s, diffusers with plastic porous media were installed in secondary treatment plants in Europe, primarily in Finland and Sweden. In order to document operation and maintenance experience with porous plastic media diffusers, plants in Europe were visited to observe and report on their experiences. This report discusses these observations and reviews on-site, long-term operating and maintenance information. The conclusions, in general, were that plastic porous media diffusers were performing satisfactorily. The application and design of aeration basins with porous plastic media diffusers appeared to be similar to those for ceramic media diffusers.

Keywords: *Sewage treatment plants, *Diffusers, *Plastics, *Aerators, Surveys, Aeration, Field tests, Fines, Activated sludge process, Performance evaluation, Porous media, Long term effects, Maintenance, Cleaning, Design criteria, Finland, Sweden, United Kingdom, *Foreign technology, *Fine pore aeration systems, *Fine bubble aerators.

PB94-200938/REB PC **A09**/MF **A03**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Off-Gas Analysis Results and Fine Pore Retrofit Case History for Hartford, Connecticut. Project rept.
Aeration Technologies, Inc., North Andover, MA.
R. G. Gilbert, and R. C. Sullivan. Aug 94, 197p EPA/600/R-94/105
See also PB94-200896 and PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

In the summer of 1982, the Hartford Metropolitan District Commission, Hartford County, Connecticut, Water Pollution Control Facility underwent a retrofit form a spiral roll coarse bubble to a full floor coverage fine pore aeration system. Work performed included all new in-tank piping and diffuser equipment and the installation of new filters on the blower air intakes. From November 1985 through August 1987, on-site studies were performed using off-gas analysis as part of the ASCE/EPA Fine Pore Aeration. The report presents the results of over 340 off-gas tests together with a case history of the retrofit to upgrade the aeration system. Historical information, retrofit evolution and implementation, aeration performance after the retrofit, cleaning and maintenance experience, and comparison of performance with pre-retrofit data are included in the report.

Keywords: *Sewage treatment plants, *Off-gas systems, *Diffusers, Gas sampling, Field tests, Performance evaluation, Oxygenation, Activated sludge process, History, Retrofitting, Connecticut, Economic analysis, Fines, Quality assurance, Quality control, Comparison, Aeration, *Fine pore aeration diffusers, Hartford(Connecticut).

PB94-200946/REB PC **A05**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Case History Report on Milwaukee Ceramic Plate Aeration Facilities. Project rept.
Earnest (Lawrence A.), Milwaukee, WI.
L. A. Ernest. Aug 94, 97p EPA/600/R-94/106
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Ceramic plate diffusers were among the earliest forms of fine pore diffusers used in activated sludge treatment. They have been successfully used for over 60 years in the Jones Island West Plant of the Milwaukee Metropolitan Sewerage District (MMSD) and since 1935 and 1974, respectively, in the MMSD Jones Island East and MMSD South Shore Plants. The Jones Island East Plant aeration basins were completely rehabilitated in 1982-1983, and the West Plant basins were scheduled for rehabilitation in 1989-1990. In both cases, alternative fine pore systems were evaluated and ceramic plate diffusers were again selected. Three separate case history reviews are presented: the Jones Island East Plant, the Jones Island West Plant, and the South Shore Plant. The Jones Island East Plant case history is divided into two separate reports: one covering the period of 1930-1981 and the other the period of 1982-1988. All of the historical reviews discuss the conceptual designs and selection process involved for each of the plants.

Keywords: *Sewage treatment plants, *Aeration, *Diffusers, Field tests, History, Fines, Performance evaluation, Case studies, Wisconsin, Activated sludge process, Design criteria, Ceramics, *Fine pore aeration systems, *Ceramic plate diffusers, *Milwaukee(Wisconsin), Jones Island Treatment Plants,, South Shore Wastewater Treatment Plant.

PB94-200953/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Investigations into Biofouling Phenomena in Fine Pore Aeration Devices. Project rept.
Microbios Ltd., Calgary (Alberta).
W. Jansen, J. W. Costerton, and H. Melcer. Aug 94, 68p EPA/600/R-94/107
See also PB90-125204. Prepared in cooperation with Environmental Protection Service, Burlington (Ontario). Waste Water Technology Centre. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Microbiologically-based procedures were used to describe biofouling phenomena on fine pore aeration devices and to determine whether biofilm characteristics could be related to diffuser process performance parameters. Fine pore diffusers were obtained from five municipal wastewater treatment plants in Wisconsin, one in Michigan, and one in California. Biofilm thickness and carbohydrate content were measured as were the film's ability to retain air bubbles. Scanning electron microscopy (SEM) procedures were used to examine biofilm structure. Diffusers were also tested for standard oxygen transfer efficiency (SOTE), bubble release vacuum (BRV), and dynamic wet pressure (DWP). Subsequently, one of the plants in Wisconsin was revisited where the three most useful of the biofilm characterization techniques were deployed to determine any relationship between biofilm thickness and content and operational parameters such as SOTE. The effect of four different cleaning procedures on diffuser characteristics was also measured. A parallel laboratory-scale investigation simulated microbially induced fouling of small-scale diffusers and the effect of bleach and acid cleaning.

Keywords: *Sewage treatment plants, *Diffusers, *Biological fouling, Field tests, Activated sludge process, Aeration, Fines, Performance evaluation, Microorganisms, Cleaning, Oxygenation, Wisconsin, California, Michigan, *Fine pore aeration systems.

PB94-200961/REB PC **A03**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Characterization of Clean and Fouled Perforated Membrane Diffusers. Project rept.
Ewing Engineering Co., Milwaukee, WI.
L. Ewing, and J. Kitzinger. Aug 94, 17p EPA/600/R-94/108
See also PB90-125204. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Laboratory analyses were conducted on plasticized PVC perforated membrane tube diffusers after varying periods in service at two different municipal wastewater treatment facilities. One set of diffusers from Cedar Creek, NY, was in service for 26 months. The other set from the Green Bay Metropolitan Sewerage District facility was in service for approximately 47 months. Tests on the membranes included dynamic wet pressure (DWP), flow uniformity, weight, dimensions, tensile modulus of elasticity, hardness, and standard oxygen transfer efficiency (SOTE).

Keywords: *Sewage treatment plants, *Diffusers, *Membranes, *Elastomers, Field tests, Fouling, Performance evaluation, Cleaning, Activated sludge process, Mechanical properties, Materials tests, Aeration, Fines, Wisconsin, New York, Experimental design, *Fine pore aeration systems, Green Bay(Wisconsin), Cedar Creek(New York), SOTE(Standard Oxygen Transfer Efficiency).

PB94-201092/REB PC **A04**/MF **A01**
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study.
Albemarle-Pamlico Coupling Study. Final rept.
North Carolina State Univ., Raleigh.
L. J. Pietrafesa, and G. S. Janowitz. May 91, 75p APES-90-13
See also PB94-184371. Sponsored by North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. Albemarle-Pamlico Estuarine Study. and Environmental Protection Agency, Washington, DC.

The objective of this study was to obtain an understanding of the hydrodynamic coupling of Albemarle and Pamlico Sounds via water motions in Croatan Sound to determine whether these motions could have a deleterious effect on the process of fish larvae recruitment into Albemarle Sound. The objective was to be achieved through a two-year program consisting of a field measurement component and a data reduction and interpretation phase.

Keywords: *Albemarle Sound, *Pamlico Sound, *Croatan Sound, *Hydrodynamics, *Ocean circulation, *Fish management, Field tests, Estuaries, Fish populations, Spawning, Sea level, Larvae, Marine fish, Migration, Air-water interactions, *Albemarle-Pamlico Estuarine Study.

PB94-201100/REB PC **A09**/MF **A02**
Pesticide Reregistration Rejection Rate Analysis Residue Chemistry. Follow-up Guidance for: Updated Livestock Feeds Tables; Aspirated Grain Fractions (Grain Dust); A Tolerance Perspective; Calculating Livestock Dietary Exposure; and Number and Location of Domestic Crop Field Trials.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Jun 94, 183p EPA/738/K-94/001
See also PB94-166378.

Tables of Contents:
Updated Livestock Feeds Table for Subdivision O;
Aspirated Grain Fractions (Grain Dust):
A Tolerance Perspective;
Guidance Procedures for Calculating Livestock Dietary Exposure;
and EPA Guidance on Number and Location of Domestic Crop Field Trials for Establishment of Pesticide Residue Tolerances.

Keywords: *Pesticide residues, *Plants(Botany), *Livestock, Chemical analysis, Biochemistry, Metabolism, Animals, Crop production, Grains(Food), Toxicity, Testing, Reviewing, Environmental transport, Food chains, Tolerances(Physiology), Agricultural chemistry, *Environmental fate, Rejection rate analysis, Reregistration.

PB94-201225/REB MF **A01**
Alternative Policies for the Control of Air Pollution in Poland.
International Bank for Reconstruction and Development, Washington, DC.
R. Bates, J. Cofala, and M. Toman. c1994, 84p ISBN-0-8213-2753-4
Also pub. as International Bank for Reconstruction and Development, Washington, DC. rept. no. ENVIRONMENT PAPER-7. Library of Congress catalog card no. 93-45657.
Microfiche copies only. Paper copy available from World Bank Publications, P.O. Box 7247-8619, Philadelphia, PA. 19170-8619. Phone: (201) 225-2165.

Like other Central European countries, Poland faces the twin challenges of improving environmental quality while also promoting economic development. The study examines the cost of achieving alternative emission standards and the savings in abatement cost that might be achieved with policies that rely on economic incentives rather than with rigid command and control measures. A central element of the analysis is a dynamic model of least-cost energy supply in Poland that allows examination at a national level of the effects of different pollution standards and policies.

Keywords: *Air pollution control, *Poland, *Government policies, Pollution regulations, Air pollution standards, International laws, Environmental policy, Political aspects, Legal aspects, Emissions, Energy demand, Economic impact, Air pollution economics, Alternatives, Air pollution abatement, Energy impact.

PB94-201837/REB PC **A04**/MF **A01**
Treatment of Cyanide Heap Leaches and Tailings. Technical Report.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Sep 94, 58p EPA/530/R-94/037

The purpose of this report is to provide information on cyanide treatment methods for heap leaches and tailings activities associated with cyanidation operations, including disposal units that receive wastes from such operations. The agency has collected this information for use in regulatory agencies and the mining industry to better understand treatment options; however, the agency has not evaluated the efficiency of the methods discussed. The report discusses cyanide detoxification or treatment in terms of chemistry, duration, removal efficiencies, and advantages and limitations. After a discussion of treatment techniques, the report describes typical closure and reclamation activities for heaps and tailings impoundments, identifying issues that are still outstanding. The report also describes Federal and state requirements that apply to cyanide operations. In addition, selected case studies, chosen to reflect a range of facility types, are presented.

Keywords: *Cyanides, *Tailings, *Pollution control, Mine wastes, Leachate, Tanks, Cyaniding(Beneficiation), Extractive metallurgy, Materials recovery, Water treatment, Remediation, Requirements, Pollution regulations, Federal law, National government, State government, Heap leaching.

PB94-201845/REB PC **A04/MF A01**
Design and Evaluation of Tailings Dams. Technical Report.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Aug 94, 71p EPA/530/R-94/038

The purpose of the report is to provide an introduction for federal land managers, permit writers, and the general public to the subject of tailings dams and impoundments, particularly with regard to their engineering features and their ability to mitigate or minimize adverse effect to the environment. The report is based on the current literature on tailings impoundment engineering. The report provides an overview of the various methods used to dispose of mine tailings and the types of impoundments that are used; describes the basic concepts used in the design of impoundments, including a number of site-specific variables of concern; discusses tailings embankment and stability; treats water management in tailings impoundments; present a case study on a lined tailings impoundment; and lists all references cited in the text. An appendix includes comments received on the draft 'design and evaluation of tailings dams' document and EPA responses.

Keywords: *Tailings disposal, *Dams, Embankments, Design criteria, Performance evaluation, Mineral wastes, Slurries.

PB94-201902/REB PC **A03/MF A01**
Method 100.2. Determination of Asbestos Structures over 10 micrometers in Length in Drinking Water.
Environmental Monitoring Systems Lab., Cincinnati, OH.
K. A. Brackett, P. J. Clark, and J. R. Millette. Jun 94, 25p EPA/600/R-94/134

Water is collected in a polyethylene or glass container and shipped to the laboratory. Known aliquots of the sample are filtered through a 0.1 to 0.22 micrometer pore mixed cellulose ester (MCE). A carbon extraction replica is prepared from a portion of the filter and is examined in the TEM at a magnification of 10,000 to 20,000X. Asbestos structures are identified by morphology, selected area electron diffraction (SAED) and energy dispersive x-ray analysis (EDXA). Structures are classified according to the counting rules specified in the Chatfield polycarbonate filter protocol (1). Only asbestos structures greater than 10 micrometers in length are counted.

Keywords: *Drinking water, *Asbestos, *Water pollution detection, Water analysis, Test methods, Quantitative analysis, Fluid filters, Membranes, Standards, Esters, Mixtures, Water pollution sampling, Electron microscopy, Quality control, US EPA, *EPA Method 100.2.

PB94-202009/REB PC **A06/MF A02**
Great Lakes Water Quality Initiative Technical Support Document for the Procedure to Determine Bioaccumulation Factors, July 1994.
Environmental Protection Agency, Washington, DC. Office of Water.
Jul 94, 123p EPA/822/R-94/002

The purpose of this document is to provide the technical information and rational in support of the proposed procedures to determine bioaccumulation factors (BAFs). This document contains six sections: (1) Introduction; (2) BAFs based on the concentration of the freely dissolved chemical in water; (3) Prediction of bioconcentration factors (BCFs); (4) Food chain multipliers based on the 1993 Gobas model; (5) BAFs from biota-sediment accumulation factor (BSAF) measurements; (6) Bioaccumulation Equivalency Factors (BEFs); and (7) Derivation of BAFs for twenty-two chemicals. Bioaccumulation factors are needed to determine both human and wildlife Tier I water quality criteria and Tier II values. Also, they are used to define Bioaccumulative Chemicals of Concern among the Great Lakes Initiative universe of pollutants.

Keywords: *Great Lakes, *Water pollution effects, *Bioaccumulation, Chemical compounds, Organic compounds, Mercury(Metal), Ecological concentration, Exposure, Biological accumulation, Food chains, Fresh water biology, Aquatic ecosystems, Wildlife, Public health, Toxicity, Sediments, Environmental transport, BCFs(Bioconcentration Factors), BEFs(Bioaccumulation Equivalency Factors), BAFs(Bioaccumulation Factors), BSAFs(Biota Sediment Accumulation Factors).

PB94-202066/REB PC **A02/MF A01**
Utility of Controlled Human Exposure Studies for Assessing the Health Effects of Complex Mixtures and Indoor Air Pollutants. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Clinical Research Branch.
W. F. McDonnell. Dec 93, 7p EPA/600/J-94/338
Pub. in Environmental Health Perspectives 101, sup4 p199-203 Dec 93.

The study of health effects induced by exposure to mixtures of pollutants is a complex task. The purpose of this paper is to identify areas of research in which the conduct of chamber studies may contribute to better understanding of the health effects of exposure to indoor air and other mixtures. The strengths and weaknesses of clinical studies in general are reviewed as well as examples from the literature of approaches which have been utilized. It is concluded that chamber studies play an important role alongside epidemiologic and animal toxicologic studies in such research. The chamber studies are powerful in assessing acute, reversible effects from short duration exposures in the species of interest.

Keywords: *Indoor air pollution, *Test chambers, *Environmental health, *Human experimentation, Biological effects, Exposure, Dose-response relationships, Biological markers, Mixtures, Binary systems(Materials), Outcome measures, Quality assurance, Clinical protocols, Research projects, Air pollution, Assessments, Reprints, Complex mixtures, Exposure chambers.

PB94-202074/REB PC **A03/MF A01**
Health Effects Research Lab., Research Triangle Park, NC.
Coupled Mass and Energy Transport Phenomena during Breathing of High Volume Aqueous Aerosols. Journal article.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
A. D. Eisner. cOct 92, 12p EPA/600/J-94/337
Contract EPA-68-02-4450
Pub. in Jnl. of Aerosol Medicine, v5 n4 p241-250 Oct 92. Sponsored by Health Effects Research Lab., Research Triangle Park, NC.

A quantitative theory was developed to predict coupled mass and energy transport phenomena during breathing of hygroscopic aerosol-laden air, and was applied to simulate exhalation (as well as inhalation) under different boundary conditions (BCs). It is shown that wall temperature may influence particle/vapor interaction, but the impact appears to be stronger at low particle concentration. At the same time, aerosol-induced (on the particle surface) vapor evaporation and condensation at high particle concentrations will influence strongly the air temperature and relative humidity patterns within the respiratory system.

Keywords: *Aerosols, *Inhalation administration, *Transport theory, *Pharmacokinetics, Mathematical models, Respiratory system, Humidity, Temperature, Hygroscopicity, Particle size, Heat transfer, Mass transfer, Thermodynamics, Interactions, Simulation, Charts(Graphs), Reprints, BCs(Boundary conditions), Aerosol/vapor interactions.

PB94-202082/REB PC **A03/MF A01**
Relationship between Delivered Ozone Dose and Functional Responses in Humans. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Clinical Research Branch.
T. R. Gerrity, W. F. McDonnell, and D. E. House. Feb 94, 11p EPA/600/J-94/336
Pub. in Toxicology and Applied Pharmacology 124, n2 p275-283 Feb 94.

The relationship between delivered ozone dose and variability of pulmonary function response to ozone was investigated in 20 young, healthy non-smoking male volunteers. The subjects were exposed to 0.4 ppm ozone for one hour during which they walked on a treadmill at a speed and inclination sufficient to induce a minute ventilation (V sub E) of 20 L/min/sq m body surface area. Prior to, and immediately following exposure, spirometric and plethysmographic measurements of lung function were made. In addition, five minutes after the beginning of exposure and five minutes before the end of exposure the uptake efficiency of ozone in the upper and lower respiratory tract, spontaneous tidal volume (V sub t), and breathing frequency (f) were measured.

Keywords: *Ozone, *Air pollution effects(Humans), *Lung, Respiratory function tests, Dose-response relationships, Uptake, Airway resistance, Exercise(Physiology), Regression analysis, Lung volume measurements, Toxicity, Exposure, Tidal volume, Plethysmography, Spirometry, Reprints, URT(Upper respiratory tract), LRT(Lower respiratory tract).

PB94-202090/REB PC **A03/MF A01**
Antimutagenicity Profiles of Synthetic and Natural Antimutagens. Journal article.
Health Effects Research Lab., Research Triangle Park, NC.
M. D. Waters, A. L. Brady, H. F. Stack, and H. E. Brockman. cJun 93, 50p EPA/600/J-94/335
Pub. in Comments on Toxicology, v4 n5 p367-415 Jun 93. Prepared in cooperation with Environmental Health Research and Testing, Inc., Research Triangle Park, NC. and Illinois State Univ., Normal. Dept. of Biological Sciences.

The concept of activity profile listings and plots, already applied successfully to the display of mutagenicity data, has been modified for application to antimutagenicity data. The activity profiles are bar graphs that have been organized in two general ways: for antimutagens that have been tested in combination with a given mutagen and for mutagens that have been tested in combination with a given antimutagen. The report examines synthetic as well as natural antimutagens and compares their activity against known mutagens. It is not clear at the present time whether the inhibition of carcinogen-induced mutation is a good indicator of anticarcinogenic properties, and further research is needed. Nevertheless, the activity profiles are useful for the assessment of the available antimutagenesis data by providing rapid visualization of dose information and experimental results.

Keywords: *Toxicology, *Antimutagenic agents, Anticarcinogenic agents, Dosage, Experimental data, Mutagenesis, Carcinogenesis, Aflatoxin B1, Benzo(a)pyrene, Butylated hydroxyanisole, Butylated hydroxytoluene, Glutathione, Vitamin A, Reprints.

PB94-202108/REB PC **A02/MF A01**
Comparative Molecular Field Analysis of Polyhalogenated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.
C. L. Waller, and J. D. McKinney. cOct 92, 10p EPA/600/J-94/334
Pub. in Jnl. of Medicinal Chemistry 35, n20 p3660-3666, 2 Oct 92. Prepared in cooperation with North Carolina Univ. at Chapel Hill. School of Pharmacy.

Comparative molecular field analysis was performed on polyhalogenated dibenzo-p-dioxins, dibenzofurans, and biphenyls for Arly hydrocarbon (Ah) receptor binding and enzyme inducing activities determined by others using in vitro assays. Since various members of all three classes of compounds have been shown to produce qualitatively similar toxicities, a separate Comparative Molecular Field Analysis (CoMFA) was performed on each class of compounds and on combinations of the different classes for each bioactivity. For the Ah receptor binding, the CoMFA-derived Quantitative Structure-Activity Relationships (QSARs) for all three classes of compounds and combinations thereof showed strong cross-validated correlations indicating that they are highly predictive. For enzyme induction, the QSARs were highly predictive for the furans, partially successful for the dioxins, and clearly unpredictive for the biphenyls.

Keywords: *Toxicity, *Chlorinated aromatic hydrocarbons, *Risk assessment, *Pharmacokinetics, In vitro analysis, Molecular structure, Predictions, Stereoche-

mistry, Aryl hydrocarbon receptors, Enzymes, Furans, Dioxin, Biphenyl, Models, Reprints, *QSAR(Quantitative Structure-Activity Relationship), *Quantitative Structure-Activity Relationship, *PBPK(Physiologically-based pharmacokinetics), TCDD(2-3-7-8-Tetrachlorodibenzo-p-dioxin).

PB94-202116/REB PC **A03**/MF **A01**
Deposition Patterns of Polydisperse Aerosols within Human Lungs. Journal article.
Health Effects Research Lab., Research Triangle Park, NC.
T. B. Martonen, and I. Katz. cOct 93, 26p EPA/600/J-94/332
Pub. in Jnl. of Aerosol Medicine, v6 n4 p251-274 Oct 93. Prepared in cooperation with North Carolina Univ. at Chapel Hill. Div. of Pulmonary Diseases. and Trinity Univ., San Antonio, TX. Dept. of Engineering Science.

The efficacy of airborne pharmaceuticals in the treatment of lung diseases may be improved with the selective deposition of inhaled drugs. Herein, a validated mathematical model is used to examine the effects of aerosol polydispersity upon deposition in the human lung. Localized deposition patterns are calculated on an airway-by-airway basis. For log-normal particle size distributions, as produced by metered-dose inhalers (MDIs) and nebulizers, deposition efficiencies are shown to be sensitive functions of the mass median aerodynamic diameter (MMAD) and geometric standard deviation (GSD). The relevance of the count median diameter (CMD) of a log-normal distribution is also examined. The model provides a heretofore unavailable basis for interpreting and information obtained from gamma camera lung scans. The agreement between theory and experiment indicates that the behavior of inhaled particles is accurately modeled.

Keywords: *Inhalation administration, *Pharmacokinetics, *Aerosols, *Lung diseases, Respiration, Mathematical models, Diffusion, Sedimentation, Dispersing, Particle size distribution, Drug administration routes, Nebulizers and vaporizers, Graphs(Charts), Reprints, Inertial impaction, PBPK models.

PB94-202124/REB PC **A02**/MF **A01**
Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.
Will the Mouse Bioassay for Estimating Sensory Irritancy of Airborne Chemicals (ASTM E 981-84) Be Useful for Evaluation of Indoor Air Contaminants. Journal article.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
J. S. Tepper, and D. L. Costa. cNov 92, 8p EPA/600/J-94/331
Contract EPA-68-D2-0056
Pub. in Indoor Environment 1, n6 p367-372 Nov 92. Sponsored by Health Effects Research Lab., Research Triangle Park, NC. Environmental Toxicology Div.
Journal article.

For many toxic inhalants, sensory irritation is the first detectable response. A standardization bioassay, ASTM E 981-84, that quantitates irritancy as a reduction in breathing rate of the mouse during inhalation exposure, has been developed. The validation of this screen for detecting irritation is based on the high rank-correlation between 0.03 x RD(50) and the TLVs-TWAs for numerous inhaled chemicals. The screen does not indicate the relative offensiveness of an odor, does not address all pulmonary hazards or non-irritating systemic hazards, and is not a replacement for chronic toxicity testing. Despite the limitations, prudent application of ASTM E 981-84 appears to provide a rapid, inexpensive means to identify indoor atmospheres of irritant potential.

Keywords: *Indoor air pollution, *Irritants, Test methods, Bioassay, Mice, Exposure, Risk assessment, Laboratory tests, Air pollution detection, Air pollution effects(Humans), Reprints, American Standard Test Method E 981-84, ASTM E 981-84.

PB94-202132/REB PC **A02**/MF **A01**
Respiratory Responses to Repeated Prolonged Exposure to 0.12 ppm Ozone. Journal article.
Health Effects Research Lab., Research Triangle Park, NC. Clinical Research Branch.
L. J. Folinsbee, D. H. Horstman, H. R. Kehrl, S. Harder, and S. Abdul-Salaam. cJan 94, 10p EPA/600/J-94/330
Pub. in American Jnl. of Respiratory and Critical Care Medicine, v149 n1 p98-105 Jan 94. Prepared in cooperation with ABB Environmental Services, Inc., Chapel Hill, NC.

Repeated exposures to high concentrations of ozone results first in augmentation and then attenuation of pulmonary response in humans. To determine the effects of repeated prolonged low concentration ozone exposure, we exposed 17 healthy, non-smoking males to 0.12 ppm ozone for 6.6 h on five consecutive days. Subjects were also exposed once to filtered air. Volunteers exercised at a ventilation of ~39 L/min for 50 min of each hour during the exposure. Spirometry, plethysmography, and symptom responses were obtained before and after each exposure. Nasal lavage and aerosol bolus dispersion were obtained before and after each exposure. Spirometry decreased and symptoms increased on the first day. Responses were less on the second day compared to the first, and were absent, compared to control, on the subsequent three days of ozone exposure.

Keywords: *Ozone, *Air pollution effects(Humans), *Lung, Exposure, Airway resistance, Vital capacity, Signs and symptoms, Spirometry, Exercise(Physiology), Methacholine chloride, Respiratory function tests, Dose-response relationships, Toxicity, Nasal lavage fluid, Plethysmography, Reprints, Aerosol bolus.

PB94-202140/REB PC **A03**/MF **A01**
Health Effects Research Lab., Research Triangle Park, NC.
Dose-Dependent Disposition of Sodium Arsenate in Mice Following Acute Oral Exposure. Journal article.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
M. F. Hughes, M. Menache, and D. J. Thompson. cJan 94, 12p EPA/600/J-94/329
Contracts EPA-68-02-4450, EPA-68-D2-0056
Pub. in Fundamental and Applied Toxicology 22, n1 p80-89 Jan 94. Prepared in cooperation with Duke Univ. Medical Center, Durham, NC. Center for Extrapolation Modelling. Sponsored by Health Effects Research Lab., Research Triangle Park, NC.

Several interpretive reviews on the effects of arsenic have suggested there is a threshold dose, at which toxic or carcinogenic effects change disproportionately with relatively small changes in the dose of arsenic. A threshold (nonlinear) response may be related in part to the potential saturation of arsenic methylation, which could lead to increases in the reactive trivalent arsenicals. Therefore, the objective of the present study was to examine the effect of dose on the in vivo disposition of arsenate after oral administration in mice. A refined chromatographic method was used to examine excretion of metabolites over several time points, and the degree of linearity of the various dose-response relationships was assessed.

Keywords: *Sodium inorganic compounds, *Arsenates, *Metabolism, *Toxicity, Dose-response relationships, Acute exposure, Oral administration, Mice, Biological effects, Reprints, MMA(Methylarsonic acid), DMA(Dimethylarsonic acid), Arsenate disposition.

PB94-203106/REB PC **A02**/MF **A01**
RED Facts: Hexadecadienol Acetates. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Apr 94, 6p EPA/738/F-94/005
See also PB94-203189.

The fact sheet summarizes the information in the RED for hexadecadienol acetates, including the active ingredients (Z,E)-7,11-Hexadecadien-1-yl acetate and (Z,Z)-7,11-Hexadecadien-1-yl acetate, which are marketed under the trade name Gossyplure. Hexadecadienol acetates are sex-attractant pheromones of the pink bollworm, Pectinophora gossypiella, Saunders, registered only for use on growing cotton to disrupt the male-female mating behavior. They are used in small quantities--less than 100 pounds of the active ingredients are applied each year, and only about 1% of the California cotton crop is treated with these biochemical pesticides.

Keywords: *Pesticides, Pheromones, Sex attractants, Insect attractants, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Environmental transport, Chemical properties, Labels, Requirements, Pollution regulations, *Hexadecadienol acetates, *Reregistration, Z,E-7,11-Hexadecadien-1-y1 acetate, Z,Z-7,11-Hexadecadien-1-y1 acetate, CAS 52207-99-5, CAS 53042-79-8.

PB94-203189/REB PC **A09**/MF **A02**
Reregistration Eligibility Decision (RED): Hexadecadienol Acetates.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
Apr 94, 188p EPA/738/R-94/005
See also PB94-203106.

The document presents the Agency's decision regarding the reregistration eligibility of the registered uses of hexadecadienol acetates. Section I is the introduction. Section II describes hexadecadienol acetates, its uses, data requirements and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for hexadecadienol acetates. Section V discusses the reregistration requirements for hexadecadienol acetates. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision.

Keywords: *Pesticides, Pheromones, Sex attractants, Insect attractants, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Environmental transport, Chemical properties, Labels, Requirements, Pollution regulations, *Hexadecadienol acetates, *Reregistration, Z E-7 11-Hexadecadien-1-y1 acetate, Z Z-7 11-Hexadecadien-1-y1 acetate, CAS 52207-99-5, CAS 53042-79-8.

PB94-203239/REB PC **A07**/MF **A02**
Reregistration Eligibility Decision (RED): N6-Benzyladenine.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Jun 94, 150p EPA/736/R-94/011

The document presents the Agency's decision regarding the reregistration eligibility of the registered uses of N6-Benzyladenine. Section I is the introduction. Section II describes N6-Benzyladenine, its uses, data requirements and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for N6-Benzyladenine. Section V discusses the reregistration requirements for N6-Benzyladenine. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision.

Keywords: *Pesticides, Plant growth regulators, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Requirements, Labels, *N6-Benzyladenine, *Reregistration, N-(phenylmethyl)-1H-purine-6-amine, Use patterns, CAS 1214-39-7.

PB94-203270/REB PC **A03**/MF **A01**
Environmental Protection Agency, Washington, DC.
Albemarle-Pamlico Baseline Water Quality Monitoring Data Summary 1991-1992. Final rept.
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Dec 92, 49p APES-93-12
See also PB94-183233. Sponsored by Environmental Protection Agency, Washington, DC.

In 1988 the Division of Environmental Management (DEM) expanded its ambient water quality monitoring program in the Albemarle-Pamlico estuary area. This report summarizes water quality information for the Tar-Pamlico, Neuse, Roanoke, Chowan and Pasquotank River basins collected between October 1991 and July 1992. Elevated nutrient concentrations were found throughout the upper and mid-portions of the study area. The majority of algal blooms occurred in the upper estuary of the Neuse River below New Bern. In the Pasquotank River basin, dissolved oxygen stratification occurred at several Albemarle Sound sites and near Edenton. Algal blooms were present in November 1991 and February 1992 in the Albemarle and Currituck Sounds. The highest upper river conductivity and

salinity values occurred in conjunction with Union Camp's discharge at downstream monitoring stations.

Keywords: *Environmental monitoring, *Water quality data, *Estuaries, North Carolina, Tar-Pamlico River, Neuse River, Roanoke River, Chowan River, Pasquotank River, Concentration(Composition), Nutrients, Dissolved oxygen, Chemical analysis, Metals, Algae, Chlorophylls, pH, Salinity, Phosphorus, Bacteria, Tables(Data).

PB94-203312/REB PC **A03**/MF **A01**
Federal Financial Reponsibility Demonstrations for Owners and Operators of Class 2 Oil- and Gas-Related Injection Wells.
Environmental Protection Agency, Washington, DC. Office of Water.
May 90, 28p EPA/570/9-90/003

This booklet has been prepared by EPA to help Class II injection well owners and operators in federally administered States to comply with the UIC program's financial responsibility demonstration requirements. It discusses: financial responsibility options, types of financial mechanisms, selection of an option and financial mechanism, and submission requirements. In addition, the booklet explains the criteria and guidelines EPA uses to evaluate the major types of financial responsibility demonstrations that Class II well owners and operators may make. EPA works closely with each applicant to evaluate the financial demonstrations made to the Agency. Surety associations and other financial services organizations may also find this booklet helpful in advising clients who own or operate Class II wells.

Keywords: *Financial responsibility, *Water pollution abatement, *Injection wells, Oil wells, Natural gas wells, Well stimulation, Environmental effects, Water supply, Ground water, Requirements, Compliance, Permits, Funds, Financial statements, Pollution regulations, Oil production, Gas production, Administrative procedures, Law enforcement, Underground Injection Control Program, Safe Drinking Water Act.

PB94-203320/REB PC **A07**/MF **A02**
Deposition of Air Pollutants to the Great Waters. First Report to Congress.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
May 94, 127p EPA/453/R-93/055

The purpose of the Great Waters program is to evaluate the atmospheric deposition of air pollutants to the Great Lakes, Lake Champlain, Chesapeake Bay, and coastal waters. The report to Congress is to include information on the contribution of atmospheric deposition to pollutant loadings, the environmental or public health effects of such pollution, the source or sources of such pollution, and a description of any regulatory revisions under applicable Federal laws that may be necessary to assure protection of human health and the environment. The scientific information currently available is summarized in this report, and recommended actions are described.

Keywords: *Acid rain, *Air pollution effects, *Environmental effects, *Health effects, Great Lakes, Lake Champlain, Chesapeake Bay, Coastal areas, Environmental transport, Aquatic ecosystems, Food chains, Acidification, Mercury(Metal), Public health, Risk assessment, Loading, Smog, Air pollution dispersion, Great Waters Program, Clean Air Act Amendments of 1990, Atmospheric transport, Acid precipitation.

PB94-203338/REB PC **A05**/MF **A01**
Office of Ground Water and Drinking Water Publications.
Environmental Protection Agency, Cincinnati, OH. Office of Ground Water and Drinking Water.
Jun 94, 81p EPA/810/B-94/001

This catalog divides the documents into nine sections: (1) Bibliographies; (2) Fact Sheets, Brochures and Pamphlets; (3) Technical Assistance Documents; (4) Youth Education; (5) Wellhead Protection; (6) Underground Injection; (7) Scientific/Fact Finding Reports; (8) National Pesticide Survey (NPS); and (9) Legislation and Federal Register notices.

Keywords: *US EPA, *Ground water, *Drinking water, *Bibliographies, Potable water, Water pollution, Water quality, Water wells, Water management, Education, Injection wells, Technical assistance, Public information, Information dissemination, Listings, Office of Ground Water and Drinking Water.

PB94-203361/REB PC **A02**/MF **A01**
RED Facts: Pronamide. Fact sheet.
Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div.
May 94, 9p EPA/738/F-94/007

This fact sheet summarizes the information in the RED for pronamide, also known by the trade name Kerb. Pronamide is a selective, systemic, pre- and post-emergence herbicide that acts by inhibiting plant cell division. It is used to control grasses and broadleaf weeds in food and feed crops including lettuce (the largest use site), endive, alfalfa, rhubarb, pome and stone fruits, artichokes, berries, grapes and legumes, as well as on woody ornamentals, Christmas trees, nursery stock, lawns, turf and fallow land. Formulations include a wettable powder and a granular. Pronamide may be applied using ground spray equipment, by soil incorporation or by aircraft.

Keywords: *Pesticides, Herbicides, Plant growth regulators, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Labels, Requirements, *Pronamide, *Reregistration, Use patterns, CAS 23950-58-5.

PB94-203387/REB PC **A03**/MF **A01**
Is Your Drinking Water Safe.
Environmental Protection Agency, Washington, DC. Office of Water.
May 94, 22p EPA/810/R-94/002
Supersedes PB92-232198.

In 1974, Congress enacted a program to ensure that drinking water in the U.S. was safe. In 1986, Congress updated this program to set mandatory guidelines for regulating key contaminants, require the monitoring of unregulated contaminants, establish benchmarks for treatment technologies, bolster enforcement, and promote protection of ground water resources. This comprehensive program is the subject of this pamphlet.

Keywords: *Drinking water, *Public health, *Risk assessment, Water pollution monitoring, Water treatment, Water pollution standards, Standards compliance, Potable water, Pollution regulations, Government policies, Water supply, Ground water, Law enforcement, National government, State government, Safe Drinking Water Act, National Primary Drinking Water Standards.

PB94-203395/REB PC **A03**/MF **A01**
NPDES and Sewage Sludge Program Authority. A Handbook for Federally Recognized Indian Tribes.
Environmental Protection Agency, Washington, DC. Office of Water.
Jul 94, 33p EPA/833/B-94/004

The handbook provides general information on the NPDES wastewater and sewage sludge programs for Federally recognized Tribes. It: Discusses Treatment in a Similar Manner as a State programmatic requirements and the definition of Federally recognized Tribes, Describes the NPDES and the National Sewage Sludge Programs, Discusses the advantages and disadvantages in assuming these programs, and Outlines the steps a Tribe would take to qualify for Treatment in a Similar Manner as a State. At the end of the handbook is a list of EPA sources and staff available to assist Tribes in applying for Treatment in a Similar Manner as a State and developing successful NPDES and/or sewage sludge programs.

Keywords: *Sewage sludge, *Waste water treatment, *Water pollution control, *American Indians, Sludge treatment, Municipal wastes, Permits, Administrative procedures, Requirements, Water pollution standards, Standards compliance, Pollution regulations, Clean Water Act, *NPDES(National Pollutant Discharge Elimination System), *National Pollutant Discharge Elimination System, National Sewage Sludge Program, Indian tribes.

PB94-203452/REB PC **A03**/MF **A01**
Guidance on Urban Airshed Model (UAM) Reporting Requirements for Attainment Demonstration.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Mar 94, 32p EPA/454/R-93/056
See also PB93-186476 and PB92-108760.

The document provides guidance to State agencies for documenting modeling procedures and results supporting 1994 revisions to State implementation plans (SIP's) for ozone. The documentation is needed for two reasons. The guidance identifies seven (7) broad areas which must be documented in the SIP submittal: a modeling protocol; emission preparation (including quality assurance) procedures and results; air quality and meteorological data input preparations and results; diagnostic tests performed to improve model performance; model performance results; control measures and air quality simulation results corresponding with the selected 'attainment strategy'; methods for accessing data files used and produced by the model. Areas with overlapping domains must address input data consistency among the domains.

Keywords: *Air pollution standards, *Reporting requirements, *Regulatory guides, Air pollution control, Standards compliance, Ozone, Nitrogen oxides, Photochemistry, Pollution regulations, Emission factors, Exhaust emissions, Air pollution dispersion, Environmental transport, Meteorological data, Computerized simulation, Computer models, Guidelines, *Urban Airshed Model, Emission inventories, State implementation plans.

PB94-203478/REB PC **A03**/MF **A01**
Clean Water: A Memorial Day Perspective.
Environmental Protection Agency, Washington, DC. Office of Water.
May 94, 29p EPA/800/R-94/003

Contents:
Overview;
Water-Based Recreational Activities;
The Value of Clean Water:
Profiles from Around the Country;
The Clean Water Act's Imprint:
How Has It Made a Difference;
Future Benefits from a New Clean Water Act;
and Conclusion.

Keywords: *Clean Water Act, *Water management, *United States, Potable water, Drinking water, Surface waters, Coastal areas, Ground water, Wetlands, Runoff, Water pollution, Water quality, Water utilization, Regulations, Standards, Regulatory impact, State Revolving Loan Funds.

PB94-203486/REB PC **A03**/MF **A01**
Drinking Water Glossary: A Dictionary of Technical and Legal Terms Related to Drinking Water.
Environmental Protection Agency, Washington, DC. Office of Water.
Jun 94, 37p EPA/810/B-94/006

The glossary provides definitions of technical and legal terms used by EPA that are related to drinking water.

Keywords: *Drinking water, *Glossaries, Water pollution, Water quality, Potable water, Legal aspects, Definitions, Terminology, Dictionaries, Technical aspects.

PB94-203494/REB PC **A02**/MF **A01**
Pesticide Fact Sheet: 'Bacillus subtilis' MBI 600.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
26 May 94, 7p EPA/737/F-94/008
See also PB92-238484.

The document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after registration of a new chemical.

Keywords: *Pesticides, *Registration, Bacteria, Biological pest control, Fungicides, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Environmental transport, Chemical properties, *Bacillus subtilis, Use patterns, CAS 51931-23-8.

PB94-203502/REB PC **A03**/MF **A01**
Guide to Environmental and Economic Stewardship in the Albermarle-Pamlico Region. A Comprehensive Conservation and Management Plan Summary.
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
1994, 41p

The Albemarle-Pamlico region includes the rivers, creeks and streams that flow into the sounds and marshes, as well as the fields, forests, cities and towns that surround them. The region supports an abundant array of plant and animal life, and provides us with a rich natural heritage. It also is generous in its economic opportunities: Farmers cultivate its soils, fishermen ply its waters, loggers harvest its forests and miners unearth its minerals. The area's natural beauty attracts tourism and resort development. The Albemarle-Pamlico region is one of diversity, not just in its natural environment but in the various groups of people who live and make their living there. Since 1987, a group of scientists, private citizens, and federal, state and local officials has been looking at how best to balance competing interests and protect the region's natural resources.

Keywords: *Envrionmental protection, *Natural resource management, *Estuaries, *Coasts, *Regional planning, Aquatic ecosystems, Rivers, Fisheries, Conservation, Wetlands, Habitats, Albemarle Sound, Population growth, Water pollution effects, Agriculture, Nutrients, Algae, Plankton blooms, Shellfish, North Carolina, Mathematical models, *Albemarle-Pamlico Region, Fishkill, Red Tides, Comprehensive planning.

PB94-203544/REB PC **A03**/MF **A01**
Multijurisdictional Pretreatment Programs. Guidance Manual.
Environmental Protection Agency, Washington, DC. Office of Water.
Jun 94, 35p EPA/833/B-94/005

The National Pretreatment Program was designed to be developed, implemented, and enforced primarily by the municipal entities that own or operate wastewater treatment facilities. As a general rule, the powers of a municipal entity are limited to its geographic boundaries, and additional authority will be needed to regulate industrial users located beyond these boundaries. The U.S. Environmental Protection Agency (EPA) refers to these types of situations as 'multijurisdictional', because industrial users are located within the boundaries of one or more jurisdictions other than the municipal entity that is charged with program implementation and enforcement responsibilities. The guidance document is intended to address these multijurisdictional program implementation and enforcement issues and offer some of the options that municipal entities may employ to satisfy federal and state program requirements. This guidance document does not provide specific legal advice on whether any one of the options is adequate to solve the problems presented by a particular situation. Each municipal entity must rely on advice of its legal counsel when evaluating the use of the options presented.

Keywords: *Pretreatment, *Waste water treatment, *Industrial waste treatment, Water treatment plants, Industrial plants, Water pollution control, Water pollution standards, Pollution regulations, Municipalities, Jurisdiction, Authority, Legal aspects, Requirements, Law enforcement, Local government, State government, *Multijurisdictional programs, Publicly owned treatment works.

PB94-203775/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
U.S. EPA/ORD Large Buildings Study: Results of the Initial Survey of Randomly Selected GSA Buildings.
Acurex Environmental Corp., Research Triangle Park, NC.
R. Fortmann, R. Clayton, V. R. Highsmith, and C. J. Nelson. 1 May 94, 9p EPA/600/A-94/157
Contract EPA-68-D2-0063
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The Atmospheric Research and Exposure Assessment Laboratory (AREAL), Office of Research and Development (ORD), U.S. Environmental Protection Agency (EPA), is initiating a research program to collect fundamental information on the key parameters and factors that influence indoor air quality and comfort in randomly selected General Services Administration (GSA) owned and operated large office buidlings. A standardized week-long investigative protocol will be employed in each building a minimum of three times during different seasons over the next 3-5 years to characterize the key physical parameters of the selected GSA buildings and randomly selected test areas; measure key comfort and environmental parameters inside and outside the building; characterize the heating, ventilating, and air conditioning (HVAC) system(s); and collect occupant response data associated with their perceptions of indoor air quality.

Keywords: *Federal buildings, *Office buildings, *Indoor air pollution, *Environmental surveys, Environmental monitoring, Air pollution sampling, Work environments, Air flow, Air quality, Comfort, Space HVAC systems, Air conditioners, Heating systems, Ventilation systems, Occupational safety and health, Reprints.

PB94-203783/REB PC **A03**/MF **A01**
Application of Microbial Ecology Research to Environmental Problems. Journal article.
Environmental Research Lab., Gulf Breeze, FL.
R. Devereux, T. Barkay, and J. Harvey. c1994, 14p
EPA/600/J-94/341
Pub. in Water Report, v4 n1 p8-11 1994. Prepared in cooperation with Avanti Corp., Gulf Breeze, FL.

Authors describe the U.S. Environmental Protection Agency (U.S. EPA) research program in biotechnology risk assessment to study fate and effects of nonindigenous microorganisms in aquatic and terrestrial environments. Information from the studies can be used by industries and regulatory agencies to assess the risk of biotechnological products (both genetically engineered or natural, but nonindigenous) in the environment. Examples of research at the U.S. EPA Gulf Breeze laboratory are cited.

Keywords: *Biotechnology, *Risk assessment, *Water pollution, Ecology, Microorganisms, Environmental effects, Aquatic environment, Terrestrial habitats, Research and development, Molecular biology, DNA sequencing, Genetic engineering, Reprints.

PB94-203791/REB PC **A08**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Environmental Criteria and Assessment Office.
Pathogen Risk Assessment Methodology for Municipal Sludge Landfilling. Final rept.
Science Applications International Corp., Oak Ridge, TN.
M. Wilson, C. T. Hadden, M. C. Gibson, E. Caldwell, and P. Ryan. Jul 94, 167p EPA/600/R-94/109
Sponsored by Environmental Protection Agency, Cincinnati, OH. Environmental Criteria and Assessment Office.

The document describes a methodology and associated computer model, SLDGFILL (sludge-only landfill), for assessing the risk to humans of pathogens in treated municipal sewage sludge landfills. The purpose of the model is to determine the probability of infection of a human receptor from pathogens in a sludge-only landfill, or monofill. The ultimate objective is to assist the U.S. Environmental Protection Agency (EPA) in its technical criteria development and regulatory activities, but the immediate uses include (1) using the model as a research and risk assessment tool to illustrate information gaps and research needs and (2) applying the methodology in performing actual pathogen risk assessments.

Keywords: *Sewage sludge, *Landfills, *Risk assessment, *Public health, Sludge disposal, Land disposal, Municipal wastes, Health hazards, Infections, Environmental exposure pathway, Bacteria, Viruses, Parasites, Environmental transport, Soil contamination, Water pollution, Land pollution, SLDGFILL computer model, Saturated zone, Unsaturated zone.

PB94-204062/REB PC **A16**/MF **A03**
Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories. Volume 2. Risk Assessment and Fish Consumption Limits.
Environmental Protection Agency, Washington, DC. Office of Water.
15 Jun 94, 373p* EPA/823/B-94/004
See also Volume 1, PB93-237899.

This guidance is designed to assist State and Tribal professionals responsible for assessing the health risks associated with exposure to chemical contaminants in noncommercial fish and shellfish. In addition to providing methods, the document offers specific information on 24 potential fish contaminants. Toxicological data and tables which list fish consumption limits based on the concentration of contaminants are included in the document. A major goal of this document is to provide an understandable and scientifically defensible method for the development of fish consumption advisories that can be used in a consistent manner across the country. This manual provides guidance only and does not constitute a regulatory requirement for the States.

Keywords: *Fishes, *Shellfish, *Food consumption, *Maximum permissible intake, Food chains, Water pollution effects, Public health, Risk assessment, Chemical compounds, Bioaccumulation, Exposure, Toxicity, Biological effects, Chemical analysis, Pesticides, Consumption limits.

PB94-204112/REB Subscription
Reregistration Eligibility Decision (RED): Pronamide.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
May 94, 210p EPA/738/R-94/007
See also PB94-203361.

This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of pronamide. Section I is the introduction. Section II describes pronamide, its uses, data requirements and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for pronamide. Section V discusses the reregistration requirements for pronamide. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision document.

Keywords: *Pesticides, Herbicides, Plant growth regulators, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Labels, Requirements, *Pronamide, *Reregistration, Use patterns, CAS 23950-58-5.

PB94-204203/REB PC **A99**/MF **E08**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Review of Methods for Measuring Fugitive PM-10 Emission Rates.
North Carolina Univ. at Chapel Hill. Dept. of Environmental Sciences and Engineering.
R. Frankel. Nov 93, 855p* EPA/454/R-93/037
See also PB93-169084. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The purpose of the report is to serve as a guide for the measurement of fugitive dust. To that end, the methods of measuring fugitive particulate emissions are reviewed. The methods included are the quasi-stack method, the roof monitor method, the upwind-downwind method, the exposure profiling method, the portable wind tunnel method, the scale model wind tunnel method, the tracer method and the balloon method. Each measurement method is explained, along with its advantages and disadvantages. Sources of error are discussed, as are sampling protocols. The literature on each method is reviewed. A section of the report is devoted to the issues of error, accuracy and precision of the methods.

Keywords: *Air pollution sampling, *Particulates, Test methods, Exhaust emissions, Dust, Aerosols, Emission factors, Air pollution dispersion, Wind tunnel tests, Tracer methods, Balloons, Air samplers, Collection methods, Quality control, Errors, Precision, Accuracy, *Fugitive emissions, *PM-10, Quasi-stack method, Roof monitors.

PB94-204617/REB PC **A08/MF A02**
Technical Analysis of Response of Chesapeake Bay Water Quality Model to Loading Scenarios (A Report of the Modeling Subcommittee Chesapeake Bay Program Office, Annapolis, MD).
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
R. V. Thomann, J. R. Collier, A. Butt, E. Casman, and L. C. Linker. Apr 94, 158p
Supersedes PB94-164340.

This report is divided into seven sections. Section I briefly describes the Chesapeake Bay Water Quality Model and introduces the scenarios analyzed. Section II describes the scenarios and associated nutrient sediment loads in detail. The third section provides background for the more detailed analysis of Bay water quality response that follows. Sections IV and V summarize aspects of Bay circulation and its influence on water quality. Section VI surveys the nutrient, phytoplankton, and sediment response to loading reductions. Section VI also examines the overall nutrient budget and the exchange among the tributaries and mainstem. Section VII concludes the report with a detailed examination of the mainstem dissolved oxygen response to the interactions among nutrient loads, transport, sediment processes, and phytoplankton processes examined in the previous sections. A summary of major findings is included in each section and an overview of these findings is provided in the Technical Summary.

Keywords: *Nutrients, *Water quality data, *Pollution control, *Chesapeake Bay, Surveys, Habitats, Sediment transport, Watersheds, Mathematical models, Nitrification, Dissolved oxygen, Phosphorus, Phytoplankton, Ocean environments, Chemical analysis, Algae, Biomass, Primary biological productivity, Graphs(Charts), Tables(Data), Organic loading, Tributaries, Total organic carbon.

PB94-204690/REB PC **A08/MF A02**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Bibliography of Hydrologic and Water-Quality Investigations Conducted in or Near the Albemarle-Pamlico Sounds Region, North Carolina. Open file rept. (Final).
Geological Survey, Raleigh, NC.
J. D. Bales, and T. M. Nelson. 1988, 153p USGS/OFR-88/480, APES-88-06
Contract APES-PR-88-06
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC.

A bibliography containing 1,100 citations is presented. The cited works are primarily reports of investigations of the effects of land use and land-use change on water quality, artificial drainage, hydrology and hydrodynamics, and water quality in the Albemarle-Pamlico Sounds region, North Carolina. The bibliography is indexed according to research topic and geographic location of the investigation. The bibliography is also computerized and has been transferred to the Albemarle-Pamlico Estuarine Study data-management system.

Keywords: *North Carolina, *Hydrology, *Water quality, Land use, Estuaries, Hydrodynamics, Water pollution, Aquatic habitats, Ecosystems, Resources management, Bibliographies, *Albemarle Sound, *Pamlico Sound, APES(Albemarle-Pamlico Estuarine Study).

PB94-204971/REB PC **A02/MF A01**
Pesticide Fact Sheet: Ampelomyces quisqualis isolate M10.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
17 Jun 94, 6p EPA/737/F-94/009

This document contains up-to-date chemical information, including a summary of the the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after Registration of a new chemical.

Keywords: *Pesticides, *Registration, Fungicides, Biological pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Microorganisms, Guidelines, Pollution regulations, Ampelomyces quisqualis isolate M10, Biofungicides, Use patterns.

PB94-205416/REB PC **A04/MF A01**
Forest Health Monitoring 1992 Annual Statistical Summary. Project rept.
Environmental Protection Agency, Research Triangle Park, NC. Environmental Monitoring and Assessment Program.
S. A. Aalexander, and J. E. Barnard. Apr 94, 52p EPA/620/R-94/010
See also PB94-114717.

In 1990, the U.S. Department of Agriculture (USDA) Forest Service (FS) and the U.S. Environmental Protection Agency (EPA) initiated a cooperative national program to monitor the condition of the nation's forests. This multi-agency effort, within EPA's Environmental Monitoring and Assessment Program (EMAP), is called the Forest Health Monitoring (FHM) program. In 1992, Detection Monitoring activities were conducted in twelve states: Alabama; Connecticut; Delaware; Georgia; Maine; Maryland; Massachusetts; New Hampshire; New Jersey; Rhode Island; Vermont; and Virginia. Data analysis results for the following indicators are presented; tree species and stand density (mensuration); tree crown condition; tree species diversity; and air pollution bioindicator plants. The cumulative distribution function methods used in the analysis provide a statistical summary of most measurements. Tabular summaries were also prepared in some cases.

Keywords: *Environmental monitoring, *Forest trees, *Growth, Ecosystems, Program management, Forest trees, Species diversity, States(United States), Density(Mass/volume), Air pollution, Bioindicators, Wildlife, Economic factors, Field tests, US EPA, Quality assurance, Maps, Tables(Data), Graphs(Charts), Joint ventures, EMAP(Environmental Monitoring and Assessment Program).

PB94-205457/REB PC **E99/MF E99**
Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Jun 94, 1198p*
Set includes PB94-205465 through PB94-205481.

No abstract available.

PB94-205465/REB PC **A18/MF A04**
Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Volume 1 of 3. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Aug 94, 428p* EPA/600/BP-92/001A, OHEA-I-486-V1
See also Volume 2, PB94-205473.

The U.S. Environmental Protection Agency has undertaken the task of preparing a scientific reassessment of the health risks of exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and chemically similar compounds collectively known as dioxin. Significant advances have occurred in the scientific understanding of mechanisms of dioxin toxicity, of the carcinogenic and other adverse health effects of dioxin in people, of the pathways to human exposure, and of the toxic effects of dioxin to the environment. The health assessment document consists of three volumes. Volume 1 describes the disposition and pharmacokinetics; mechanism(s) of action; acute, subchronic, and chronic toxicity; immunotoxicity; developmental and reproductive toxicity; and carcinogenicity of TCDD in animals.

Keywords: *Tetrachlorodibenzodioxin, *Health hazards, *Risk assessment, *Toxicity, Dioxins, Public health, Biological effects, Health effects, Exposure, Tolerances(Physiology), Dose-response relationships, Epidemiology, Pharmacokinetics, Immunology, Nervous system, Immune system, Reproduction(Physiology), Fetal development, Growth abnormalities, Carcinogenicity.

PB94-205473/REB PC **A99/MF A06**
Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Volume 2 of 3. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
J. Blancato, W. H. Farland, and D. Mukerjee. Aug 94, 642p* EPA/600/BP-92/001B, OHEA-I-486-V2
See also Volume 1, PB94-205465 and Volume 3, PB94-205481.

The U.S. Environmental Protection Agency has undertaken the task of preparing a scientific reassessment of the health risks of exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and chemically similar compounds collectively known as dioxin. Significant advances have occurred in the scientific understanding of mechanisms of dioxin toxicity, of the carcinogenic and other adverse health effects of dioxin in people, of the pathways to human exposure, and of the toxic effects of dioxin to the environment. Volume 2 covers sections on epidemiology/human data and dose-response modeling.

Keywords: *Tetrachlorodibenzodioxin, *Health hazards, *Risk assessment, *Toxicity, Dioxins, Public health, Biological effects, Health effects, Exposure, Tolerances(Physiology), Dose-response relationships, Epidemiology, Pharmacokinetics, Immunology, Nervous system, Immune system, Reproduction(Physiology), Fetal development, Growth abnormalities, Carcinogenicity.

PB94-205481/REB PC **A07/MF A02**
Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Volume 3 of 3. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
J. Blancato, W. H. Farland, and D. Mukerjee. Aug 94, 128p* EPA/600/BP-92/001C, OHEA-I-486-V3
See also Volume 2, PB94-205473.

The U.S. Environmental Protection Agency has undertaken the task of preparing a scientific reassessment of the health risks of exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and chemically similar compounds collectively known as dioxin. Significant advances have occurred in the scientific understanding of mechanisms of dioxin toxicity, of the carcinogenic and other adverse health effects of dioxin in people, of the pathways to human exposure, and of the toxic effects of dioxin to the environment. Volume 3 presents a risk characterization for dioxin which summarizes the two companion documents (the health assessment document and exposure document) and discusses key findings pertinent to understanding the hazards and risks of dioxin.

Keywords: *Tetrachlorodibenzodioxin, *Health hazards, *Risk assessment, *Toxicity, Dioxins, Public health, Biological effects, Health effects, Exposure, Tolerances(Physiology), Dose-response relationships, Epidemiology, Pharmacokinetics, Immunology, Nervous system, Immune system, Reproduction(Physiology), Fetal development, Growth abnormalities, Carcinogenicity.

PB94-205499/REB PC **E99/MF E99**
Estimating Exposure to Dioxin-Like Compounds.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Jun 94, 1392p*
Set includes PB94-205507 through PB94-205523.

No abstract available.

PB94-205507/REB PC **A07/MF A02**
Estimating Exposure to Dioxin-Like Compounds. Volume 1. Executive Summary. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Jun 94, 132p* EPA/600/6-88/005CA
See also Volume 2, PB94-205515.
Also available in a set of 3 reports PC E99/MF E99, PB94-205499.

The document consists of three volumes addressing human exposure to dioxin-like compounds. Volume 1 is an Executive Summary of Volumes 2 and 3. Volume 1 also includes a unique section on research recommendations. The three-volume set serves as a final version of the 1988 draft document titled, Estimating Exposure to 2,3,7,8-TCDD (PB88-231196). This effort represents a substantial expansion in scope to include all compounds that exhibit dioxin-like toxicity. The document is intended to be used in conjunction with the

health reassessment of dioxin-like compounds which the Agency is preparing concurrently.

Keywords: *Dioxins, *Exposure, *Dose-response relationships, Toxicity, Health hazards, Maximum permissible exposure, Maximum permissible dose, Biological availability, Absorption(Biology), Tolerances(Physiology), Tetrachlorodibenzodioxin, Biological accumulation, Bioassay, Biochemistry, Epidemiology, Immunology, Public health, Risk assessment.

PB94-205515/REB PC **A99**/MF **A06**
Estimating Exposure to Dioxin-Like Compounds. Volume 2. Properties, Sources, Occurrence and Background Exposures. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Jun 94, 696p* EPA/600/6-88/005CB
See also Volume 1, PB94-205507 and Volume 3, PB94-205523.
Also available in a set of 3 reports PC E99/MF E99, PB94-205499.

The document consists of three volumes addressing human exposure to dioxin-like compounds. Volume 2 describes the properties, sources, environmental levels, and background exposures to dioxin-like compounds. The three-volume set serves as a final version of the 1988 draft document titled, Estimating Exposure to 2,3,7,8-TCDD (PB88-231196). The effort represents a substantial expansion in scope to include all compounds that exhibit dioxin-like toxicity. The document is intended to be used in conjunction with the health reassessment of dioxin-like compounds which the Agency is preparing concurrently.

Keywords: *Dioxins, *Exposure, *Dose-response relationships, Toxicity, Health hazards, Maximum permissible exposure, Maximum permissible dose, Biological availability, Absorption(Biology), Tolerances(Physiology), Tetrachlorodibenzodioxin, Biological accumulation, Bioassay, Biochemistry, Epidemiology, Immunology, Public health, Risk assessment.

PB94-205523/REB PC **A24**/MF **A04**
Estimating Exposure to Dioxin-Like Compounds. Volume 3. Site-Specific Assessment Procedures. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Health and Environmental Assessment.
Jun 94, 564p* EPA/600/6-88/005CC, OHEA-E-271-V3
See also Volume 2, PB94-205515.
Also available in a set of 3 reports PC E99/MF E99, PB4-205499.

The document consists of three volumes addressing human exposure to dioxin-like compounds. Volume 3 presents methods for assessing site-specific assessments of exposure to these compounds. The three-volume set serves as a final version of the 1988 draft document titled, Estimating Exposure to 2,3,7,8-TCDD (PB88-231196). This effort represents a substantial expansion in scope to include all compounds that exhibit dioxin-like toxicity. The document is intended to be used in conjunction with the health reassessment of dioxin-like compounds which the Agency is preparing concurrently.

Keywords: *Dioxins, *Exposure, *Dose-response relationships, Toxicity, Health hazards, Maximum permissible exposure, Maximum permissible dose, Biological availability, Absorption(Biology), Tolerances(Physiology), Tetrachlorodibenzodioxin, Biological accumulation, Bioassay, Biochemistry, Epidemiology, Immunology, Public health, Risk assessment.

PB94-205531/REB PC **A07**/MF **A02**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Field Investigation of Effectiveness of Soil Vapor Extraction Technology (September 1994). Final project rept.
Weston (Roy F.), Inc., West Chester, PA.
Sep 94, 150p EPA/600/R-94/142
Contract EPA-68-03-3450
See also PB94-122553. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

A research project was undertaken to study the effectiveness of soil vapor extraction (SVE), an emerging technology for remediation of soils contaminated with volatile organic compounds (VOCs). As part of the project, two soil vapor extraction systems, Site D and Site G at the Twin Cities Army Ammunition Plant, New Brighton, Minnesota were selected for evaluation. The approach of the project was to gather and compare site information regarding residual soil concentrations before and after treatment, and obtain operational data to evaluate the performance of the systems. The residual levels of volatile organics before and after treatment are compared for magnitude and distribution. Operational data are analyzed to present the performance of the systems and the progression of treatment with time. Capital, operating and maintenance costs are presented. Results of the evaluation indicate that SVE has been effective in reducing the residual concentrations, generally by several orders of magnitude. In most cases, residual concentrations were nondetectable. Samples taken in silty clays and waste materials showed the hightest residual concentrations.

Keywords: *Land pollution control, *Soil treatment, *Volatile organic compounds, Concentration(Composition), Reprints, Remedial action, Hazardous materials, Waste disposal, Munition industry, Military facilities, Field tests, Case studies, Cost analysis, USEPA, Chemical analysis, Laboratory tests, *Soil vapor extraction, *New Brighton(Minnesota), Cleanup, Methane/bromochloro, Ethane/trichloro.

PB94-205549/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Alkaline Noncyanide Zinc Plating with Reuse of Recovered Chemicals.
Illinois Dept. of Energy and Natural Resources, Champaign. Hazardous Waste Research and Information Center.
J. M. Peden. Sep 94, 64p EPA/600/R-94/148
See also PB85-217651. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

A metal finishing process can create environmental problems because it uses chemicals that are not only toxic but also resistant to degradation or decomposition. A study was undertaken at a zinc electroplating operation to achieve zero discharge of wastewater and total recycle of recovered precipitates. The first step in this project was to change an existing zinc cyanide (CN) plating line to one that used an alkaline noncyanide (ANC) zinc bath. The project then investigated a closed-loop system to treat plating rinsewater from the ANC zinc plating line so the plating chemicals were recovered and the water purified. The goal was to return both the recovered zinc hydroxide and the clean water to the plating line for continued use. The replacement of this single CN line with an ANC line resulted in an annual savings to P&H Plating of $14,000 from the elimination of the need to pretreat the plating line rinsewater to oxidize cyanide. The addition of the recovery/recycle system increased the company's savings to $62,000/year. The reuse of 30% of the recovered zinc hydroxide and 70% of the treated rinsewater reduced annual water usage and wastewater discharge by 841,911 gallons and reduced the amount of sludge disposed annually by 14 cubic yards. The payback period for the recovery/recycle system is slightly less than 18 months.

Keywords: *Zinc coatings, *Water pollution control, *Water treatment, Waste water reuse, Chemical removals(Sewage treatment), Electroplating, Precipitation(Chemistry), Materials recovery, Waste recycling, Cost engineering, Waste minimization, Pollution prevention.

PB94-205721/REB PC **A07**/MF **A02**
International Boundary and Water Commission, El Paso, TX. United States Section.
Archaeological Investigations at the Proposed International Wastewater Treatment Plant Site: Cultural Resource Identification and Geotechnical Test Monitoring.
Mariah Associates, Inc., Albuquerque, NM.
May 94, 145p
Contract IBM-91-5
Sponsored by International Boundary and Water Commission, El Paso, TX. United States Section.

Mariah Associates, Inc. performed a Class I and Class III archaeological survey and monitoring for the International Boundary and Water Commission, U.S. Section, for the location of the International Wastewater Treatment Plant and associated feeder pipeline alignments proposed for construction in the Tijuana River Valley in San Diego County, California. An archaeological survey of a recently added 15 acre parcel to the International Wastewater Treatment Plant was also carried out prior to geotechnical testing and monitoring in that area.

Keywords: *California, *Archaeological sites, *Cultural resources, Cultural objects, Prehistoric cultures, Artifacts, Historical aspects, Resources management, Site surveys, Site characterization, Environmental monitoring, San Diego County(California), International Wastewater Treatment Plant.

PB94-205739/REB PC **A10**/MF **A03**
International Boundary and Water Commission, El Paso, TX. United States Section.
Archaeological Monitoring of the International Wastewater Treatment Plant Land Outfall Trench. San Diego County, California.
Mariah Associates, Inc., Albuquerque, NM.
H. C. Higgins, C. A. Turnbow, G. M. Brown, R. W. Coleman, and R. O. Collett. Jun 94, 208p
Contract IBM-91-5
Sponsored by International Boundary and Water Commission, El Paso, TX. United States Section.

The International Boundary and Water Commission, U.S. Section (USIBWC), has constructed the Land Outfall (LO), a 12,300 linear foot (3,749 m), 144-inch concrete pipeline in the Tijuana River valley. The purpose of the pipeline is to transport treated sewage from the USIBWC International Wastewater Treatment Plant (IWTP) to the Ocean Outfall (OO), both of which are yet to be constructed. Treated effluent will pass from the plant through the LO into the OO and into the Pacific Ocean. As with the IWTP, the OO has not been constructed. Construction is complete on the 144-inch LO pipeline. Archaeological monitoring of activities associated with construction of this pipeline are described in this report. The results of previous monitoring and some salvage excavations conducted by the U.S. Army Corps of Engineers, Los Angeles District (COE) are also described here. Finally, for completeness, results of archaeological testing along part of the reach are summarized herein.

Keywords: *California, *Archaeological sites, *Cultural resources, Cultural objects, Prehistoric cultures, Artifacts, Historical aspects, Resources management, Site surveys, Site characterization, Environmental monitoring, San Diego County(California), International Wastewater Treatment Plant.

PB94-205986/REB PC **A09**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.
Technical Support Document for the Albemarle-Pamlico Estuarine Study Comprehensive Conservation and Management Plan. Draft rept.
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Sep 93, 192p APES-93-14
See also PB94-184371. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

Contents:
Introduction:
Water Quality Management Plan;
Vital Habitats Management Plan;
Fisheries Management Plan;
Stewardship Management Plan;
Implementation Plan;
References;
Appendix A:
Regional Summaries;
Appendix B:
Glossary;
Appendix C:
Administrative Cost Evaluation Matrix;
Appendix D:
APES Management Conference Members;
Appendix E:
APES Publication List.

Keywords: *Environmental monitoring, *Water quality management, *Estuaries, North Carolina, Albermarle Sound, Pamlico Sound, Aquatic ecosystems, Toxicity, Fisheries, Water pollution effects, Shellfish, Sampling, Harvesting, Animal diseases, Dissolved oxygen, Plankton blooms, Mortality, Aquatic plants, Economic growth, Regions, Benefit cost analysis,

*APES(Albemarle-Pamlico Estuarine Study), *Southeast Region(United States), Fishkill.

PB94-206232/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
User's Guide to TSCREEN: A Model for Screening Toxic Air Pollutant Concentrations (Revised). Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Jul 94, 45p EPA/454/B-94/023
Contract EPA-68-D30032
See also PB91-141820 and PB93-210367. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

Using TSCREEN, a particular release scenario is selected via input parameters, and TSCREEN automatically selects and executes the appropriate dispersion model to simulate that scenario. The model to be used and the worst case meteorological conditions are automatically selected based on criteria given in the workbook. The correct release scenario and associated characteristics of a toxic emissions release are selected with the help of on-screen text and graphics and data input is performed in a full-screen edit mode. TSCREEN saves the input data for each release scenario to a file that can be retrieved and later edited or executed. TSCREEN also provides a method of easily viewing and saving the modeling results for each modeled scenario.

Keywords: *Air pollution dispersion, *Transport properties, *Environmental transport, Toxic substances, Atmospheric diffusion, Air pollution dilution, Exhaust densities, Air flow, Air circulation, Air pollution monitoring, Release, Air pollution sources, Concentration(Composition), Meteorological data, Computerized simulation, User manuals(Computer programs), *TSCREEN computer model.

PB94-206257/REB PC **A09**/MF **A03**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Automobile Assembly Plant Spray Booth Cleaning Emission Reduction Technology Review. Final rept.
Midwest Research Inst., Cary, NC.
Mar 94, 198p EPA/453/R-94/029
Contract EPA-68-D1-0115
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The report provides information on the spray booth cleaning process and alternative cleaning practices that reduce or eliminate the use of organic cleaning solvents. It provides a ready reference to actions reported by eight automobile companies to reduce emissions from booth cleaning operations. It is carefully referenced to allow readers to take advantage of others' work. A summary of the cleaning practices currently being used by 15 automobile assembly plants is included, as is each plant's VOC emissions from spray booth cleaning. Additionally, a summary of the alternative cleaning practices identified for each major component of the booth is presented, and the non-VOC cleaning practices are identified. The Unit Operation System (UOS) material balance approach was used to calculate VOC emissions from cleaning spray booths.

Keywords: *Automotive industry, *Solvents, *Spray painting, *Air pollution control, Cleaning agents, Coating processes, Surface coating, Automobile industry, Alternatives, Substitutes, Emissions, Air pollution standards, Standards compliance, Regulations, Automotive assembly plants, Spray booths, Cleaning practices, Volatile organic compounds.

PB94-206406/REB PC **A05**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Air/Superfund National Technical Guidance Study Series: Air/Superfund Guide to Pollutant Toxicity. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Jul 94, 99p EPA/451/R-94/002
Contract EPA-68-D3-0032
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The guide was developed in response to a technical assistance request (TAR 29) from U.S. EPA Region VIII to compile a list of existing health-related values (inhalation equivalent only) for thirty-four individual pollutants. Chapter 2 contains the inhalation exposure limits that were identified for each of the thirty-four pollutants ranked by exposure limit. Note that for the metal categories, data was collected for only the metal listed and not for the many compounds that might contain the metal. Appendix A contains the references used to develop the tables in Chapter 2. Appendix B contains an alphabetical listing of the thirty-four pollutants and their synonyms. Appendix C contains a listing of the common acronyms and abbreviations of the thirty-four pollutants; definitions of the common values used; and each of the references which were cited.

Keywords: *Air pollution effects(Humans), *Toxicity, *Inhalation, Metals, Pesticides, Polychlorinated biphenyls, Benzo(a)pyrene, Air pollutants, Respiration, Hazardous materials, Toxic substances, Dose rates, Maximum permissible exposure, Risk assessment, Public health, Health hazards, Superfund, Waste management, Exposure limits, Volatile organic compounds.

PB94-206505/REB PC **A22**/MF **A04**
International Symposium on the Ecological Effects of Arctic Airborne Contaminants. Held in Reykjavik, Iceland on October 4-8, 1993. Journal article.
Corvallis Environmental Research Lab., OR.
D. H. Landers, and S. J. Christie. cOct 93, 525p EPA/600/J-94/343
Pub. in Science of the Total Environment (STOTEN) Special Edition, Fall 94. See also AD-A269 955. Prepared in cooperation with ManTech Environmental Technology International, Inc., Corvallis, OR.

These scientific papers were presented at the Symposium, which was convened in October 1993 in Reykjav EDk, Iceland. (1) It was desinged to be interdisciplinary, forcing scientists from varied academic backgrounds to participate in sessions focused on germane but unfamiliar disciplines and (2) a serious effort was made to involve practicing arctic scientists from the former Soviet Union, whose arctic holdings represents over 65% of the arctic landmass. Arctic airborne contaminants, represented by a broad suite of substances, are known to be transported great distances from their sites of origin, often crossing national and ecological boundaries, where they are deposited and potentially incorporated into ecological systems. The Arctic environment presents an ideal situation in which to study global change. This is true particularly with respect to airborne contaminants. Many regions of the Arctic are thousands of kilometers from significant emission sources, yet it is clear that ecosystems in many of these distant locations are exposed to airborne contaminants. The relatively simple food web structure and low biodiversity (especially with regard to inland systems) combine to offer an excellent investigative environment.

Keywords: *Ecology, *Air pollution, *Arctic regions, *Meetings, Global, Abstracts, Atmospheric composition, Volatile organic compounds, Path of pollutants, Chlorohydrocarbons, Spatial distribution, Climatic changes, Aerosols, Mathematical models, Physical properties, Chemical properties, Polychlorinated biphenyls, USEPA, USSR, Foreign countries, Tables(Data), *Airborne contaminates, Joint ventures, Iceland, Norway.

PB94-206729/REB PC **A19**/MF **A04**
RACT/BACT/LAER Clearinghouse: A Compilation of Control Technology Determinations. Fourth Supplement to the 1990 Edition. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
J. E. Steigerwald. Jun 94, 441p EPA/453/R-94/055
See also PB94-111572.

All RACT/BACT/LAER Clearinghouse (RBLC) supplements contain detailed information only for those permits entered into the Clearinghouse since the last published compilation or supplement. This edition also includes a comprehensive index of all permits entered into the system since June 1989. The 1994 edition adds 133 new determinations entered into the system from June 1993 to May 1994. Also since last year, incomplete determinations for the state of Washington have been deleted at the request of the submitting agency, Puget Sound Air Pollution Control Agency. In total, BLIS now contains 3,097 determinations from 50 states and three territories.

Keywords: *Air pollution control, Air pollution control equipment, Air pollution sources, Permits, Sectoral analysis, Performance standards, Air pollution standards, Standards compliance, Clean Air Act, Pollution regulations, Industrial wastes, Airborne wastes, Listings, *BACT(Best Achievable Control Technology), *Best Achievable Control Technology, *RACT(Reasonably Achievable Control Technology), *Reasonably Achievable Control Technology, *LAER(Lowest Achievable Emission Rate), *Lowest Achievable Emission Rate, New Source Performance Standards.

PB94-207800/REB PC **A13**/MF **A03**
Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.
Albemarle-Pamlico Estuarine Study: Descriptions of Related Government Programs, Agencies, and Entities.
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
L. W. Margeson. Sep 93, 297p APES-93-15
Prepared in cooperation with Resource Analytics Inc., Raleigh, NC. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

This document describes the existing federal, state and local management structure governing the Albemarle-Pamlico (A-P) estuarine region. It includes those organizations and programs that have the most direct bearing on management and stewardship of the natural resources in the A-P region. Many of these programs and agencies directly regulate environmentally sensitive areas and activities. Others influence environmental stewardship through resource-based economic development, planning or education.

Keywords: *Albemarle Sound, *Pamlico Sound, *Government agencies, Research programs, Environmental surveys, Environmental research, Program management, Research management, Estuaries, Federal agencies, US EPA, US DOA, US DOC, US DOD, US DOI, US DOT, State agencies, North Carolina, Virginia, Local government, Albemarle-Pamlico Estuarine Study, Regional programs.

PB94-209434/REB PC **A04**/MF **A01**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Potential for Eutrophication and Nuisance Algal Blooms in the Lower Neuse River Estuary. Final rept.
North Carolina Univ. at Chapel Hill. Inst. of Marine Sciences.
H. W. Paerl, M. Mallin, J. Rudek, and P. W. Bates. Dec 90, 61p
Grant EPA-CE-00470601
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC.

Phytoplankton primary production and its environmental regulation were examined at 3 stations representative of the lower Neuse River Estuary near the Pamlico Sound interface. This study covered a 3-year period (November 1987-October 1990). The authors also examined the roles of the major phytoplankton nutrients nitrogen and phosphorus in controlling growth and bloom formation. The overall potential for nuisance blooms and associated episodes of bottom water hypoxia and anoxia was investigated in field studies. Algal biomass and production varied seasonally, with high values in summer and low values in winter. In situ nutrient addition bioassays indicated the estuary experienced a general state of N limitation with especially profound limitation during summer periods. The authors recommendations for a management strategy include reductions in Dissolved inorganic nitrogen (DIN), dissolved inorganic phosphorus (DIP), and suspended sediment loads in order to maintain the system in a nuisance bloom-free condition.

Keywords: *Plankton blooms, *Water pollution effects, *Neuse River Estuary, Resource management, Nutrients, Nitrogen, Phosphorus, Biomass, Seasonal variations, Bioassay, Recommendations, Reduction, Suspended sediments, Acid rain, Atmospheric composition, Eutrophication, North Carolina, Organic loading,

Dissolved inorganic nitrogen, Dissolved inorganic phosphorus.

PB94-209442/REB PC **A03**/MF **A01**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Potential for Long-Term Persistence of the Red Tide Dinoflagellate 'Ptychodiscus brevis' in North Carolina Coastal Waters. Final rept.
Versar, Inc., Columbia, MD. ESM Operations.
M. Tyler. Apr 89, 21p APES-88-09
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and North Carolina Dept. of Natural Resources and Community Development, Raleigh. Div. of Procurement.

In October of 1987, the toxic red tide dinoflagellate Ptychodiscus brevis which normally resides along the Florida coast was introduced into North Carolina waters via the intrusion of a Gulf Stream eddy. The transported population resulted in the closure of shellfish beds in North Carolina due to the presence of brevetoxin in the shellfish. A major field effort was undertaken in February 1988 to determine the extent of the organism distribution. Benthic samples were collected as well as water column samples and were incubated in the laboratory for a one month period to determine the presence of cysts. Incubation of the sediment samples yielded no motile population which suggests that Ptychodiscus did not form a resting stage in North Carolina waters. Without further study, however, one cannot rule out the possibility that Ptychodiscus formed a resting stage, but its obligate period of dormancy was not complete during the short one month incubation.

Keywords: *Dinoflagellates, *Populations, *Coasts, *North Carolina, Toxicity, Red tide, Shellfish, Spatial distribution, Sampling, Aquatic microorganisms, Plankton blooms, Laboratory tests, Sediments, Dormancy, Ptychodiscus brevis, Cysts, Motile populations.

PB94-209491/REB PC **A04**/MF **A01**
Comparison of ISC2 Dry Deposition Estimates Based on Current and Proposed Deposition Algorithms.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
D. T. Bailey. Jul 94, 55p EPA/454/R-94/018

The ability to accurately estimate deposition of particulate matter is of special concern in assessing environmental impacts from a variety of sources including Superfund sites, municipal waste incinerators, and surface coal mines. The current deposition algorithm in ISC2 simulates deposition as the movement of particles toward the surface by the combined processes of atmospheric turbulence and gravitational settling. The method was developed for applications to large particles dominated by gravitational settling; these are typically particles greater than 20 micrometers diameter. The current algorithm was not intended for use with particles smaller than about 20 micrometers which are often of concern in air toxics assessments. In light of this limitation, a new deposition algorithm is being considered for use in ISC2. The proposed algorithm is intended to simulate processes important over the entire range of significant particle sizes (0.1 to 100 micrometers). The proposed algorithm employs a deposition velocity based on a resistance model. In this approach, deposition flux is calculated as the product of the near-surface air concentration and the deposition velocity. The latter is computed as the inverse sum of the aerodynamic layer and deposition layer resistances, plus gravitational settling. The new deposition algorithm has been tested within the framework of the ISC2 model and comparisons of deposition estimates using the old (current) and new deposition algorithms have been made for a range of source types and particulate emission scenarios. Similar comparisons have been made of particulate concentration estimates as affected by the old and new deposition algorithms.

Keywords: *Dry methods, *Deposition, *Particulates, *Mathematical models, *Air pollution, Study estimates, Comparison, Algorithms, Particle size, Plumes, Pollution sources, Meteorology, Stacks, Atmospheric diffusion, Tables(Data), Graphs(Charts), *Industrial Source Complex dispersion model, *ISC2 Model.

PB94-209558/REB PC **A03**/MF **A01**
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Chesapeake Bay Toxics Reduction Strategy Stakeholder Roundtables: Pennsylvania, Maryland and the District of Columbia Summaries.
Alliance for the Chesapeake Bay, Baltimore, MD.
F. Flanigan, C. A. Barth, and C. Dunn. Jul 94, 35p
Sponsored by Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.

In response to findings from the reevaluation of the Chesapeake Bay Basinwide Toxics Reduction Strategy, the Chesapeake Executive Council directed the Bay Agreement signatories to revise the basinwide strategy through a process that incorporates broad public involvement in the Strategy's development, review and implementation. The Chesapeake Bay Program's Toxics Subcommittee sponsored a series of stakeholder rountables to solicit active public participation in the strategy development. Roundtables were held in Pennsylvania on June 8, in Maryland on June 8, and in the District of Columbia on June 14, 1994. Stakeholders representing businesses, agricultural community, public interest groups, and local, regional, state, and federal government agencies, were invited to participate, (Appendix A). Each roundtable was structured to inform targeted stakeholders in each jurisdiction on the most recent findings regarding the effects of chemical contaminants on the Chesapeake Bay system and the wide range of reduction and prevention management actions being directed towards chemical contaminants. This summary of the Pennsylvania, Maryland, and District of Columbia stakeholder roundtables reflects discussions and recommendations made during the roundtables as well as followup written responses annotated on the draft commitments worksheets or in letter format.

Keywords: *Toxicity, *Pollution prevention, *Chesapeake Bay, National government, Reduction, Citizen participation, Government agencies, Regulations, Chemical compounds, Recommendations, State government, Financing, Local government, Pennsylvania, Maryland, District of Columbia, Law enforcement, Education, Nonpoint source, Clean Water Act, Licenses, Strategic planning, RCRA(Resource Conservation and Recovery Act of 1990).

PB94-209616/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Effects of Acidic Deposition on Paint: A Chamber Study. Journal article.
North Carolina State Univ. at Raleigh.
J. W. Spence, T. J. Lemmons, Y. Hou, R. J. Schadt, and R. E. Fornes. cAug 93, 11p EPA/600/J-94/355
Contract EPA-R-814121-02-4
Pub. in Jnl. of Coatings Technology, v65 n823 p47-55 Aug 93. See also PB87-224333. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Exterior acrylic latex and alkyd architectural coatings were exposed to different conditions in a chamber exposure system involving simulated sunlight, dew, and photochemical smog-containing sulfur dioxide (SO2). A simulated sunlight exposure of the coating films in the presence of clean air was also incorporated into the experimental design. Changes in surface features after 1,370 hours of exposure were characterized by scanning electron microscope (SEM) and energy dispersive analysis of x-rays (EDAX). Gaseous species that deposited to the films were determined by ion chromatography of the dew collections. Color-change measurements of the exposed films were recorded as Delta E values. Latex and alkyd films that were formulated with calcium carbonate (CACO3) as an extender pigment were found to undergo the most change in surface features, composition, and color.

Keywords: *Paints, *Test chambers, *Air pollution, Atmospheric condensation, Photochemical reactions, Smog, Dew, Calcium carbonates, Latex, Coatings, Reprints.

PB94-209624/REB PC **A03**/MF **A01**
Gasoline-Contaminated Ground Water as a Source of Residential Benzene Exposure: A Case Study. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
A. B. Lindstrom, V. R. Highsmith, T. J. Buckley, W. J. Pate, and L. C. Michael. c1994, 14p EPA/600/J-94/356
Pub. in Jnl. of Exposure Analysis and Environmental Epidemiology, v4 n2 p183-195 1994. See also PB93-121044. Prepared in cooperation with North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh. and Research Triangle Inst., Durham, NC.

In a private residence using gasoline-contaminated ground water (approximately 300 micrograms/l benzene), a series of experiments were performed to assess the potential benzene exposures that may occur in the shower stall, bathroom, master bedroom, and living room as a result of a single 20-min shower. Integrated fixed site SUMMA(Trademark)-polished canister and Tenax GC(Patented) air samples were collected in the target microenvironments over 20, 60, and 240 min periods. Inhalation exposures in the shower stall during the 20-min shower were 2.1 - 4.9 times higher than corresponding 20-min bathroom exposures. The results indicate that domestic use of gasoline-contaminated water can produce relatively high benzene exposures that vary significantly according to an individual's proximity to the water use zone.

Keywords: *Indoor air pollution, *Benzene, *Residential buildings, Risk assessment, Case studies, Gasoline, Water pollution, Ground water, Air pollution sampling, Environmental exposure, Reprints.

PB94-209632/REB PC **A02**/MF **A01**
On-Road Vehicle Emissions: U.S. Studies. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
K. T. Knapp. c1994, 9p EPA/600/J-94/357
Pub. in Science of the Total Environment 146/147, p209-215 1994.

Several recent events in mobile sources emissions measurements have caused a major reassessment of the amounts of volatile organic compounds (VOC) and carbon monoxide (CO) in the ambient air attributed to mobile sources. These include the comparison of real-world in-use vehicle emissions with those predicted by mobile emission factor models and the development of cross-road remote sensors for measuring emissions from in-use passing vehicles. The real-world measurements were generally higher than model predictions. A tunnel study in the Southern California Air Quality Study (SCAQS) found two-fold to seven-fold differences. Additional real-world studies, including the remote sensor, roadside I/M inspections and testing on the U.S. Environmental Protection Agency portable dynamometer have shown that 50% of the tailpipe emissions come from only 10% of the vehicles and 80% come from 20% of the vehicles. This paper describes the portable dynamometer study and several tunnel studies.

Keywords: *Air pollution sampling, *Automobile exhaust, *Road tests, Exhaust emission measurement, Carbon monoxide, Nitrogen oxides, Hydrocarbons, Dynamometers, Vehicle air pollution, Emission factors, Air pollution in tunnels, Exhaust emissions, Motor vehicles, Reprints, Volatile organic compounds.

PB94-209640/REB PC **A02**/MF **A01**
FT-IR Transmission Spectroscopy for Quantitation of Ammonium Bisulfate in Fine-Particulate Matter Collected on Teflon (Trade Name) Filters. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
K. J. Krost, and W. A. McClenny. Mar 94, 6p EPA/600/J-94/358
Pub. in Applied Spectroscopy, v48 n6 p701-705 1994.

A quantitative measurement method for fine particle bisulfate in ammonium bisulfate collected from the ambient air onto Teflon filters is described. Infrared absorbance measurements of the Teflon filters are made before and after particle collection. Subtraction of the two spectra reveals the absorbance spectrum of the particles. This method provides a specific, nondestructive, direct measurement of ammonium bisulfate. As such, the method has distinct advantages over indirect methods involving ion balance in solution.

Keywords: *Air pollution monitoring, *Infrared spectroscopy, *Ammonium sulfates, *Tetrafluoroethylene resins, Filters, Aerosols, Absorption spectroscopy, Nondestructive tests, Quantitative analysis, Reprints.

PB94-209657/REB PC **A02/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Enhancements of Remote Sensing for Vehicle Emissions in Tunnels. Journal article Sep 91-Jan 93.
Denver Univ., CO. Dept. of Chemistry.
G. A. Bishop, Y. Zhang, S. E. McLaren, P. L. Guenther, and S. P. Beaton. c1994, 9p EPA/600/J-94/359
Contract DOE-VE-12-1-92
Pub. in Jnl. of Air and Waste Management Association, v44 p169-175 Feb 94. Prepared in cooperation with Nevada Univ. System, Reno. Desert Research Inst. and ManTech Environmental Technology, Inc., Research Triangle Park, NC.

The University of Denver in cooperation with the Desert Research Institute, U.S. EPA, and General Motors Corporation have successfully adapted the University of Denver's remote sensing system for vehicle exhaust to the measurement of vehicle emissions in a tunnel environment. Two studies conducted at the Fort McHenry Tunnel in Baltimore, MD and the Tuscarora Mountain Tunnel located west of Harrisburg, PA on the Pennsylvania Turnpike are described. The difficulties associated with remote sensing in a tunnel environment have led to a number of improvements in the remote sensing technology. Due to logistics and restrictions on placement of equipment in the Fort McHenry tunnel, a prototype periscope system was employed to optimize the height of the remote sensor's infrared beam path relative to vehicle exhaust plumes. At the Tuscarora Tunnel, first-time measurements of dual lane traffic were conducted using a single source and detector and two cameras for vehicle identification. This precluded the normal practice of directing traffic into a single lane which can alter normal driving patterns.

Keywords: *Remote sensing, *Air pollution in tunnels, *Vehicle air pollution, Exhaust emission measurement, Nitrogen oxides, Hydrocarbons, Air pollution sampling, Emission factors, Automobile exhaust, Exhaust emissions, Vehicular tunnels, Pennsylvania, Maryland, Air pollution monitors, Periscopes, Remote viewing equipment, Infrared scanning, Tunnel ventilation, Reprints, Fort McHenry Tunnel, Tuscarora Mountain Tunnel.

PB94-209665/REB PC **A03/MF A01**
Combined TTFA/CMB Receptor Modeling Approach and Its Application to Air Pollution Sources in China. Journal article.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
M. P. Zelenka, W. E. Wilson, J. C. Chows, and P. J. Lioy. c1994, 13p EPA/600/J-94/360
Pub. in Atmospheric Environment, v28 n8 p1425-1435 1994. Prepared in cooperation with Robert Wood Johnson Medical School, Piscataway, NJ., Nevada Univ. System, Reno. Desert Research Inst., Rutgers - The State Univ., New Brunswick, NJ., and Environmental and Occupational Health Sciences Inst., Piscataway, NJ.

The possibility of using a two step method of identifying and quantifying air pollution emissions in an urban environment was examined in this paper. The procedure uses a numerical model called Target Transformation Factor Analysis (TTFA) to estimate source emission profiles using ambient trace element air concentration data. The profiles estimated by TTFA are then employed in a Chemical Mass Balance (CMB) source apportionment analysis for an air shed. The results show that TTFA can be used to provide quantitative estimates of air pollution source profiles for an urban center in China. TTFA can identify source categories of airborne pollution for specific locations, as well as give quantitative data on the composition of the emissions from those source types. Including source profiles estimated by TTFA in a chemical mass balance analysis provides a comprehensive source apportionment methodology which can help researchers more accurately characterize the air pollution source types that pose the greatest concern to human health. (Copyright (c) 1994 Elsevier Science Ltd.)

Keywords: *China, *Air pollution sources, Reprints, Exhaust emissions, Chemical analysis, Particulates, Aerosols, Fines, Air pollution sampling, Point sources, Urban areas, Combustion products, Coal burning appliances, Mathematical models, Transformations(Mathematics), *Target Transformation Factor Analysis, *Chemical Mass Balance, Tianjin(China), Wuhan(China), Receptor modeling.

PB94-209673/REB PC **A03/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Relative Importance of Oxidation Pathways and Clouds to Atmospheric Ambient Sulfate Production as Predicted by the Regional Acid Deposition Model. Journal article.
MCNC, Research Triangle Park, NC. Information Technologies Div.
J. N. McHenry, and R. L. Dennis. cJul 94, 19p EPA/600/J-94/361
Contract EPA-68-W0-0043
Pub. in Jnl. of Applied Meteorology, v33 n7 p890-904 Jul 94 and at the Conference on Atmospheric Chemistry, Anaheim, CA., January 17-22, 1993, p23-30. Prepared in cooperation with National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div.

The development and use of a version of the Regional Acid Deposition Model/Engineering Model (RADM/EM) called the Comprehensive Sulfate Tracking Model (COMSTM) is reported. The COMSTM is used to diagnose the relative contributions of each sulfate production pathway to the total atmospheric ambient sulfate predicted by RADM. Thirty meteorological cases are used to aggregate the results into annual estimates. For the operational RADM (denoted RADM 2.6), nonprecipitating cloud production of ambient sulfate dominates over precipitating cloud production, and the hydrogen peroxide pathway dominates over four other aqueous formation routes. Gas-phase production of sulfate contributes less than 40% of the ambient budget. Further, the COMSTM is used to explore the sensitivity of the RADM's cloud water and rainwater pH's and ambient sulfate predictions to uncertainties in the ammonia emissions inventory. By developing correction factors to improve in-cloud and deposited ammonia, and utilizing them in the COMSTM, it is shown that the uncertainties should have a minimal effect on predicted cloud water and rainwater pH's and on the overall ambient sulfate budget in the operational RADM 2.6. (Copyright (c) 1994 American Meteorological Society.)

Keywords: *Clouds(Meteorology), *Air pollution, *Sulfates, *Atmospheric chemistry, Reprints, Oxidation, Deposition, Study estimates, Acid rain, pH, Rain, Hydrogen peroxide, Ammonia, Troposphere, *Comprehensive Sulfate Tracking Model, *COMSTM model, Regional Acid Deposition Model/Engineering Model, Chemical reaction mechanisms.

PB94-209681/REB PC **A03/MF A01**
Electronic Factor in QSAR: MO-Parameters, Competing Interactions, Reactivity and Toxicity. Journal article.
Environmental Research Lab.-Duluth, MN.
O. G. Mekenyan, and G. D. Veith. c1994, 18p EPA/600/J-94/362
Pub. in SAR and QSAR in Environmental Research, v2 p129-143 1994. Presented at the International Workshop on QSAR in Environmental Toxicology (5th), Duluth, MN., July 19-23, 1992. Prepared in cooperation with Burgas Univ. of Technology (Bulgaria). Dept. of Physical Chemistry.

Reactive chemicals pose unique problems in the development of structure-activity relationships (SAR) and quantitative structure-activity relationships (QSAR) in environmental chemistry and toxicology. Models of the stereoelectronic interactions of reactive toxicants with biological systems require formulation of parameters that quantify the electronic structure of the chemicals. A review of early approaches to modeling reactivity is presented in this work, with emphasis on the generalized polyelectronic perturbation theory. Applications of generalized polyelectronic perturbation theory (GPPT) are demonstrated with QSARs for predicting toxicity of soft electrophiles and proelectrophiles using superdelocalizability and the charges on frontier orbitals. Prediction of toxicity for hard electrophiles such as organophosphates require atomic charges and bond orders in the QSAR. Special considerations for the orthogonality of factors and for the classification of reactive chemicals are reviewed. (Copyright (c) 1994 Gordon and Breach Science Publishers S.A.)

Keywords: *Structure-activity relationships, *Toxicity, *Electrons, Chemical reactivity, Energy, Theoretical models, Reprints, *QSAR(Quantitative structure-activity relationships), *Quantitative structure-activity relationships.

PB94-209699/REB PC **A03/MF A01**
GAEP: A Geographic Preprocessor for Ground Water Flow Modeling. Journal article.
Robert S. Kerr Environmental Research Lab., Ada, OK.
V. A. Kelson, H. M. Haitjema, and S. R. Kraemer. c1993, 13p EPA/600/J-94/363
Pub. in Hydrological Science and Technology, v8 n1-4 p74-83 1993. Prepared in cooperation with Indiana Univ. at Bloomington. School of Public and Environmental Affairs.

A new preprocessor has been developed which enhanced the implementation of ground water flow models using the analytic element method. This preprocessor allows the user to generate model elements from digital maps which can be created by the preprocessor's digitizing module or imported from various electronic data sources. Once a set of model elements has been defined, the preprocessor allows the user to modify his model as necessary for refinement and calibration. Model results are improved by enhancing the modeler's ability to perform many simulations, adjusting assumed boundary conditions and testing hypotheses. While the preprocessor is capable of generating input files for many element modelling programs, versions are currently available for the CZAEM (Capture Zone Analytic Element Model) and GFLOW1 (Conjunctive Ground Water/Surface Water Model) programs.

Keywords: *Ground water, *Water flow, *Model studies, Groundwater movement, Flow rates, Areal hydrogeology, Computer models, Analytical techniques, Cartography, Digital techniques, Reprints, GAEP(Geographic analytic Element Preprocessor), Analytical element modeling, CZAEM model, GFLOW1 model.

PB94-209707/REB PC **A03/MF A01**
Effect of Aggregation on 'Vibrio cholerae' Inactivation. Journal article.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
R. M. Clark, E. W. Rice, B. K. Pierce, C. H. Johnson, and K. R. Fox. c1994, 15p EPA/600/J-94/364
Pub. in Jnl. of Environmental Engineering, Paper no. 7141, v120 n4 p875-887 Jul/Aug 1994. Prepared in cooperation with Battelle, Arlington, VA.

Extensive research has shown that microorganisms exhibit increased resistance due to clumping, aggregation, particle association or modification of antecedent growth conditions. During the course of investigating a major waterborne V. cholerae outbreak in Peru, U.S. EPA investigators discovered an extremely rough form of V. cholerae that was highly resistant to disinfection by chlorine. This form of V. cholerae also tends to form large aggregates, which contribute to the resistance. Particle counting was used to characterize each of the cultures examined. Statistical analysis revealed that the rugose, or rough, strain of V. cholerae was much more resistant to disinfection than the common, or smooth, strain. Resistance was attributed to both aggregation and a mucoid coating. The larger aggregates associated with the rugose organism are of a size as to be easily removed by filtration, but if the variant were to contaminate a distribution system through a line break or cross connection it would be difficult to control by chlorine disinfection.

Keywords: *Vibrio cholerae, *Aquatic microbiology, *Microbial drug resistance, Disinfectants, Potable water, Chlorine, Microbial colony count, Kinetics, Tables(Data), Reprints, Microbial aggregation.

PB94-209715/REB PC **A03/MF A01**
DBP Control in Drinking Water: Cost and Performance. Journal article.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
R. M. Clark, J. Q. Adams, and B. W. Lykins. c1994, 27p EPA/600/J-94/365

Pub. in Jnl. of Environmental Engineering, Paper no. 7107, v120 n4 p759-782 Jul/Aug 94.

The U.S. Environmental Protection Agency (U.S. EPA) is currently attempting to balance the complex tradeoffs in chemical and microbial risks associated with controlling disinfection and disinfection by-products (D/DBP) in drinking water. In attempting to achieve the balance, the U.S. EPA will propose three rules: an information collection (ICR); an enhanced surface water treatment rule (ESWTR) and a two-stage D/DBP rule. Controlling D/DBP will have a major impact on drinking water utilities in the United States. There are several options for D/DBP control, including moving the point of disinfection, removal of by-products once they are found, removing precursor material or natural organic matter before it interacts with the disinfectant, or use of a disinfectant that minimizes the formation of by-products. Overall, the most effective approach to D/DBP control is to remove precursor before it reacts with the disinfectant. The choice of any given strategy is very site specific. (Copyright (c) 1994 ASCE.)

Keywords: *Disinfectants, *Drinking water, *Byproducts, Water treatment, Water supply, Aldehydes, Chlorine, Halogen organic compounds, Ozone, Microorganism control(Water), Filtration, Water quality management, Alternatives, Cost analysis, Distribution systems, Water distribution, Reprints, Maximum Contaminant Level, Safe Drinking Water Act, Surface Water Treatment Rule, Disinfection and Disinfection By-Products Rule, Granulated active carbon.

PB94-209723/REB PC **A02**/MF **A01**
Potential Ecological and Nontarget Effects of Transgenic Plant Gene Products on Agriculture, Silviculture, and Natural Ecosystems: General Introduction. Journal article.
Corvallis Environmental Research Lab., OR.
R. J. Seidler, and M. Levin. c1994, 6p EPA/600/J-94/366
Pub. in Molecular Ecology 3, p1-3 1994. Prepared in cooperation with Maryland Univ., College Park. Center for Public Issues in Biotechnology.

A symposium was held at the Univ. of Maryland Nov. 30 - Dec. 2, 1992, to discuss transgenic plant risk assessment issues for measurement and identification of potential ecological and nontarget organism effects. The goal was to identify available scientific information and highlight future research that will lead to useful test protocols for environmental risk assessments of transgenic plants. The report addresses the current state of the art, organization of the symposium, current regulations, procedures in both the European Community, Canada, the United States, the U.S. Department of Agriculture, and the U.S. Environmental Protection Agency. It also lists the topics addressed during the scientific presentations.

Keywords: *Environmental effects, *Risk assessment, *Pesticides, *Farm crops, *Plant genetics, *Meetings, Micro, Genetics, Hybridization, Pollen, Seeds, Production, Field tests, Safety, Biotechnology, Reprints, *Transgenic plants.

PB94-209731/REB PC **A02**/MF **A01**
Toxicity of Guthion (Trade Name) and Guthion (Trade Name) 2S to 'Xenopus laevis' Embryos. Journal article.
Corvallis Environmental Research Lab., OR.
G. S. Schuytema, A. V. Nebeker, and W. L. Griffis. c1994, 6p EPA/600/J-94/367
Pub. in Archives of Environmental Contamination and Toxicology 27, p250-255 1994.

Differences in sensitivity to waterborne contaminants between wildlife species have prompted investigations on the sensitivity of amphibians to potentially hazardous environmental chemicals. The development of Xenopus laevis (African clawed frog) embryos exposed to the pesticide Guthion(Trademark) (technical grade) and Guthion(Trademark) 2S (commercial formulation) was evaluated in modified Frog Embryo Teratogenesis Assay--Xenopus (FETAX) tests. The embryos were exposed to five or six increasing concentrations of pesticide in 10- and 100-ml exposure volumes of test solution for 96 h. Embryos exposed to 10-ml volumes of Guthion exhibited increased mortality, increased deformation, and decreased size as compared to those exposed in 100-ml volumes. LC50s for embryos exposed in the 10-ml Guthion tests ranged from 6.1 to 6.3 mg/L as compared to 10.6 to 11.9 mg/L for those in the 100-ml tests.

Keywords: *Toxicity, *Water pollution effects(Animals), *Frogs, *Pesticides, Amphibia, Embryos, Teratogens, Assaying, Dose-response relationships, Mortality, Abnormalities, Lethal dosage, Reprints, *Guthion(Trademark), Xenopus laevis, FETAX(Frog Embryo Teratogenesis Assay-Xenopus).

PB94-209749/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Effects of Meteorology on Concentrations of Acid Aerosols.
National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div.
M. P. Zelenka, and H. H. Suh. 1994, 8p EPA/600/A-94/168
Prepared in cooperation with Harvard School of Public Health, Boston, MA. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Ambient air samples of strong acid aerosol, sulfate, ammonia, and ammonium were collected in Pittsburgh and Uniontown, Pennsylvania during the summer of 1990. High correlations were found for both acid aerosol and sulfate concentrations between Pittsburgh and the semi-rural site in Uniontown. One possible implication is that acid aerosols and their precursors are regionally transported. To test this hypothesis, air samples from the Uniontown site were statistically analyzed for the meteorological relationships that resulted in episodic events of elevated ambient acid aerosol levels. Standard measures of atmospheric conditions in both Pittsburgh and Uniontown were used; they included temperature, pressure, relative humidity, wind speed and direction. Results show that the episodic events of elevated acid aerosol occurred with the same general set of meteorological conditions. The major meteorological variables which correlated with the episodes were the mean wind speed in Pittsburgh and the mean westerly wind component (U) at Uniontown. These two variables accounted for one-third of the variance.

Keywords: *Air pollution sampling, *Acidity, *Aerosols, Meteorological data, Air temperature, Air pressure, Relative humidity, Wind velocity, Wind direction, Acid rain, Sulfates, Ammonia, Ammonium, Hydrogen ions, Photochemical oxidants, Chemical analysis, Urban areas, Rural areas, Comparative analysis, Environmental transport, Reprints, Pittsburgh(Pennsylvania), Uniontown(Pennsylvania), Meteorological effects.

PB94-209756/REB PC **A02**/MF **A01**
Real-Time Monitoring of Polycyclic Aromatic Hydrocarbons and Respirable Suspended Particles from Environmental Tobacco Smoke in a Home.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
W. Ott, N. K. Wilson, N. Klepeis, and P. Switzer. 1994, 8p EPA/600/A-94/169
Proceedings of an Air and Waste Management Association Toxics Meeting. See also PB94-157401. Prepared in cooperation with Stanford Univ., CA. Dept. of Statistics.

Real-time measurement of polycyclic aromatic hydrocarbons (PAH) on fine particles was evaluated in a home with environmental tobacco smoke (ETS) as a source. Respirable suspended particles (RSP) were also monitored. Comparison of PAH and RSP concentrations from these experiments suggests: (1) the PAH concentrations for the two types of cigarettes--a regular Marlboro filter cigarette and a University of Kentucky reference cigarette No. 2R1--were similar, but the RSP concentrations were different; (2) concentrations from the real-time PAH monitor were linearly related to RSP concentrations; (3) the slopes of the regression lines between PAH and RSP differed for the two types of cigarettes. The real-time PAH monitor appears to be a useful tool for evaluating mathematical models to predict the concentration time series in indoor microenvironments.

Keywords: *Indoor air pollution, *Polycyclic aromatic hydrocarbons, *Tobacco smoke, *Air pollution monitoring, Aerosols, Particulates, Real time systems, Mathematical models, Charged particle detection, Field tests, Environmental exposure, Concentration(Composition), Measuring instruments.

PB94-209764/REB PC **A03**/MF **A01**
Ecoregions: A Spatial Framework for Environmental Management. Book chapter.
Corvallis Environmental Research Lab., OR.
J. A. Omernik. 1993, 34p EPA/600/A-94/170
Pub. in Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making for Rivers and Streams, 1993.

The recent interest in ecosystem management has brought an awareness of the need for an appropriate spatial framework for effectively structuring ecosystem management as well as the research, inventory, and monitoring of ecosystems and their components. This paper addresses the complexity of the task of defining ecological regions as well as the concept of regional reference sites, and provides an explanation of the development of the hierarchical ecoregion framework within the U.S. Environmental Protection Agency. Comparisons are made with other frameworks such as watersheds or basins. Also covered are the processes by which ecoregions are refined, subregions are defined, and sets of reference sites are selected via collaborative projects involving state and federal resource managers and EPA geographers. Although development of the ecoregion/reference site framework has to date been largely driven by the needs of state resource management agencies for developing biological criteria, and for setting water quality standards and lake management goals, support has grown for structuring biological risk assessment and ecosystem management in general.

Keywords: *Environment management, Reprints, Ecosystems, Environmental monitoring, Environmental quality, Environmental protection, Regional analysis, Natural resources, Biological diversity, Bioindicators, Indicator species, Wildlife, Vegetation, Aquatic ecology, Water resources, Land use, Climate, Geomorphology, Landforms, Spatial distribution, *Ecoregions, Biological criteria.

PB94-209772/REB PC **A03**/MF **A01**
Use of Greenhouse Chambers for Enhancing Growth of Tundra Transplants on Gravel Fill in Prudhoe Bay, Alaska. Symposium paper.
Corvallis Environmental Research Lab., OR.
M. A. Shirazi, P. K. Haggerty, J. G. Wyant, and M. A. Bollman. Aug 94, 30p EPA/600/A-94/171
Pub. in Proceedings of the University Council on Water Resources, Big Sky, MT., August 2-5, 1994. See also PB92-151653. Prepared in cooperation with Forest Service, Corvallis, OR. and ManTech Environmental Technology, Inc., Corvallis, OR.

An approach is presented that could facilitate disturbed tundra revegetation and monitoring in Alaska North Slope Oil Fields. Experiments were conducted on an abandoned drilling pad where the gravel was removed to a thin layer (Ca. 20 cm) above tundra grade and mixed with underlying compacted original sod. Intact plugs 13.3 cm in diameter were transplanted from a donor plot into the thin gravel in treatments with and without mini greenhouses covering single plugs and double plugs. At the end of the first growth season, the greenhouse air temperature (in aggregate thawing degree C days) was elevated 68% and the greenhouse soil temperature was elevated 17% above the ambient air and soil temperatures, respectively. Two independent methods were used for estimating plug growth. Visual cover estimation showed that double plugs with greenhouse produced cover values significantly greater than single plugs. Radiometry measurements developed and modeled to predict plug canopy dry weight showed that the dry weight for all treatments except double plugs with greenhouse fall within ranges of samples taken from stressed areas in the native tundra.

Keywords: *Offshore drilling, *Crude oil, *Tundra, *Arctic regions, Ecosystems, Disturbances, Oil fields, Greenhouses, Temperature, Estimates, Plant growth, Soil properties, Biomass, Habitats, *Revegetation, *Alaskan North Slope, Plugs.

PB94-209780/REB PC **A03**/MF **A01**
Groundwater Sampling for Metals (Chapter 14). Book chapter.
Robert S. Kerr Environmental Research Lab., Ada, OK.
R. W. Puls. 1994, 18p EPA/600/A-94/172
Pub. in Environmental Sampling for Trace Analysis, 1994. See also PB91-133249.

The collection of groundwater samples for metals, including metalloids such as arsenic and selenium, is primarily complicated by the fact that many of the target metal contaminants are also part of the immobile geologic matrix through which groundwater flows. It is the purpose of this chapter to familiarize the reader with newer techniques, their value in terms of sample quality and consistency, and the conditions under which they should be considered for use. The latter depends on sampling purpose or objectives and data quality requirements. While the focus will be on metals samples and sampling in routine monitoring wells, some discussions will also have relevance for sampling organic contaminants as well.

Keywords: *Metals, *Ground water, *Water pollution sampling, Metalloids, Arsenic, Selenium, Colloids, Filtration, Turbidity, Sample preparation, Water wells, Water analysis, Chemical analysis, Soil water movement, Indicators, Purging, Quality control, Reprints.

PB94-209796/REB PC **A03**/MF **A01**
Response of Stem Growth and Function to Air Pollution. Book chapter.
Corvallis Environmental Research Lab., OR.
J. A. Weber, and N. Grulke. 1994, 37p EPA/600/A-94/173
Pub. in Stems and Trunks in Plant Form and Function, 1994. See also PB93-167260. Prepared in cooperation with Pacific Northwest Forest and Range Experiment Station, Corvallis, OR. Forestry Sciences Lab.

The exposure to air pollutants can result in reduced stem growth, changes in wood density, and/or deposition of pollutants in the stem. Several recent reviews summarize the known effects of air pollutants on plant growth and function including trees. Air pollutants many also change the defensive capacities of stems through alternation in chemical constituents. In this chapter, the authors review the literature on the effects of several major types of air pollutants on stem growth and function with the goals of better defining our knowledge in these areas and of suggesting areas in need of further investigation.

Keywords: *Air pollution effects(Plants), *Plant growth, *Ozone, *Forest trees, Economic factors, Nitrogen oxides, Carbohydrates, Photosynthesis, Soils, Leaves(Botany), Roots, Photosynthesis, Carbon dioxide, Concentration(Composition), Climatic changes, Response, Biochemistry, Biomass, *Plant canopies, Heavy metals, Stems, Tree rings growth.

PB94-209806/REB PC **A08**/MF **A02**
Landscape Ecology and the Conservation and Management of Neotropical Migratory Birds (Revised). Book chapter.
Corvallis Environmental Research Lab., OR.
K. E. Freemark, J. B. Dunning, S. J. Hejl, and J. R. Probst. 28 Jul 94, 117p EPA/600/A-94/174
Pub. in Ecology and Management of Neotropical Migratory Birds: A Synthesis and Review of the Critical Issues, 1994. Prepared in cooperation with Canadian Wildlife Service, Ottawa (Ontario)., Georgia Univ., Athens. Inst. of Ecology., and North Central Forest Experiment Station, Rhinelander, WI. Forestry Sciences Lab.

The conservation and management of neotropical migratory birds needs to include a landscape perspective. Landscape ecology represents a renewed interest in the development and dynamics of landscape mosaics, the effects of landscape patterns on species, biotic interactions and ecological processes, and how landscape heterogeneity can be managed to benefit society. For neotropical migratory birds, landscapes occupy the spatial scales intermediate between an individual's territory or home work has improved the conceptual basis and quantitative methods regions. Recent work has improved the conceptual basis and quantitative methods for landscape studies. However empirical information for neotropical migratory birds is largely based on short-term, distributional studies in central and northeastern hardwood forests during the breeding season. More detailed and geographically-extensive landscape studies of neotropical migratory birds during the breeding season are needed to provide regionally-specific information to compare among regions.

Keywords: *Wildlife conservation, *Birds, *Wildlife management, Ecology, Tropical regions, Replacement, Animal migrations, Spatial distribution, Changes, Land use, Winter, Reproduction(Biology), Geographic areas, Hardwoods, Forest land, Landscape patterns.

PB94-209921/REB PC **A03**/MF **A01**
Rationale for New Source Performance Standards: Starch Production Plants.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Aug 94, 28p EPA/453/R-94/060

New source performance standards (NSPS) implement section 111 of the Clean Air Act, as amended (the Act). The NSPS are issued for categories of sources which the Administrator determines cause, or contribute significantly to, air pollution which may reasonably be anticipated to endanger public health or welfare. The Environmental Protection Agency (EPA) previously determined that starch production plants are major contributors to air pollution that may reasonably be anticipated to endanger public health or welfare and, thus, constitute a major source category for the purpose of Section 111.

Keywords: *Air pollution standards, Air pollution control, Pollution regulations, Standards compliance, Reporting requirements, Particulates, Food storage, Food processing, Wet mills, Dry mills, Drying, Roasters, Permits, Environmental impacts, Economic impact, Energy consumption, Cost analysis, Clean Air Act, Air pollution monitoring, Alternatives, *Starch production plants, *New Source Performance Standards, BDT(Best Demonstrated Technology), Energy impact.

PB94-209947/REB PC **A03**/MF **A01**
Sarasota Bay: Reclaiming Paradise. Final rept.
Environmental Protection Agency, Atlanta, GA. Region IV.
M. Alderson, R. Beamanella, P. Clark, J. Culter, and R. G. Dean. c1993, 42p
Color illustrations reproduced in black and white. See also PB94-209954 and PB94-209962. Prepared in cooperation with Sarasota Bay National Estuary Program, FL.

Contents:
- A Vision for Sarasota Bay;
- Check Your Sarasota Bay-Q;
- State of the Bay 1992;
- Findings of the Sarasota Bay Program;
- Technical Synthesis of Sarasota Bay;
- Reclaiming Paradise;
- Sarasota Bay Improvement Options;
- Sarasota Bay-Q Answers.

Keywords: *Environmental management, *Sarasota Bay, *Habitats, *Pollution control, Reclamation, Land use, Patterns, Storm water runoff, Waste treatment, Improvement, Population growth, Water pollution, Marine fishes, Recreation, Aquatic animals, Environmental impacts, Losses, Florida, Sarasota Bay National Estuary Program, Manatees.

PB94-209954/REB PC **A05**/MF **A01**
Sarasota Bay Project: State of the Bay Report. Final rept.
Environmental Protection Agency, Atlanta, GA. Region IV.
P. Roat, and M. Alderson. cJan 90, 86p
Color illustrations reproduced in black and white. Also pub. as Sarasota Bay National Estuary Program rept. no. SBNEP-1. See also PB94-209947 and PB94-209962. Prepared in cooperation with Sarasota Bay National Estuary Program, FL.

Contents:
- Sarasota Bay:
- Past and Present;
- The State of Sarasota Bay;
- Sarasota Bay Project Goals and Strategies;
- Notes;
- Glossary of Terms;
- Appendices.

Keywords: *Environmental management, *Sarasota Bay, *Habitats, *Pollution control, History, Estuaries, Economic development, Industries, Population growth, Land use, Storm water runoff, Marine fishes, Recreation, Aquatic animals, Waste treatment, Sea grasses, Losses, Shellfish, Point sources, Florida, Sarasota Bay National Estuary Program, Manatees, Beach nourishment.

PB94-209962/REB PC **A14**/MF **A03**
Sarasota Bay National Estuary Program: Framework for Action. Final rept.
Environmental Protection Agency, Atlanta, GA. Region IV.
M. Alderson, R. Beaman, P. Clark, J. Culter, and R. G. Dean. c1992, 314p
Color illustrations reproduced in black and white. Also pub. as Sarasota Bay National Estuary Program, FL. rept. no. SBNEP-2. See also PB94-209954 and PB94-209947. Prepared in cooperation with Sarasota Bay National Estuary Program, FL.

Contents:
- A Vision for Sarasota Bay;
- State of the Bay 1992;
- Findings of the Sarasota Bay National Estuary Program;
- Water and Sediment;
- Circulation;
- Wetlands;
- Sea-Level Rise;
- Bay Bottom Habitats;
- Marine Mammals;
- Fishery Resource Assessment;
- Shellfish;
- Pollutant Loadings;
- Recreational Use;
- Technical Synthesis of Sarasota Bay;
- Early Action Demonstration Projects;
- Sarasota Bay Improvement Options;
- Citizen Involvement in Sarasota Bay;
- Glossary.

Keywords: *Program management, *Sarasota Bay, *Pollution prevention, *Meetings, Sediment transport, Water flow, Tidal currents, Atmospheric tides, Sea level, Wetlands, Seagrasses, Habitats, Mammals, Fisheries, Shellfish, Recreation, Improvement, Citizen participation, US EPA, Florida, National Estuary Program, Organic loading.

PB94-210002/REB PC **A07**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Characterization of Emissions from Carpet Samples Using a 10-Gallon Aquarium as the Source Chamber. Final rept. Oct 92-Jun 93.
Acurex Corp., Research Triangle Park, NC.
Z. Guo, and N. Roache. Aug 94, 129p EPA/600/R-94/141
Contract EPA-68-DO-0141
See also PB91-242966. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The report discusses part of a Phase I carpet bioresponse study sponsored by EPA. The study evaluated emissions from carpet samples that had previously been reported to show toxic effects on experimental mice. The report describes the major findings of only the chemical characterization work conducted at the Indoor Source Characterization Laboratory of EPA's Air and Energy Engineering Research Laboratory. All other results (animal testing, microbial testing, chemical analysis by sample extraction, and pesticide analysis) are reported separately. The experimental system used in this study, developed by Anderson Laboratories, was identical to that used by EPA's Health Effects Research Laboratory in carpet bioresponse testing. An emissions characterization team from the Contractor evaluated the experimental system and concluded that all test system developed by Anderson Laboratories was not suitable for carpet chemical emissions characterization because of poor reproducibility, non-uniform thermal conditions, and emissions from the source chamber itself.

Keywords: *Carpets, *Test methods, *Indoor air pollution, Aerosols, Emissions, Response, Toxicity, Chemical analysis, Concentration(Composition), Biological accumulation, Physical properties, Microbiology, Experimental design, High temperature, Tests, Graphs(Charts), Samples, Toxicology, USEPA, Tables(Data), Exposure chamber, Stationary sources.

PB94-210226/REB PC **A04**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information.
Biomonitoring for Control of Toxicity in Effluent Discharges to the Marine Environment.
Eastern Research Group, Inc., Lexington, MA.

P. DeBona, W. Heyman, and H. Schultz. Sep 89, 64p EPA/625/8-89/015
See also PB89-220503. Sponsored by Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information.

This document describes the use of biological monitoring as an effective water quality -based approach to controlling the toxicity in discharges to estuarine and marine waters. This document is intended for Federal and State National Pollutant Discharge Elimination System (NPDES) permit writers, water quality specialists, managers of pollution control systems, regulatory decisionmakers, research scientists, and informed laypersons.

Keywords: *Water pollution effects, *Toxicity, *Marine biology, Bioassay, Biological indicators, Biological contamination, Invertebrates, Marine fishes, Marine environments, Aquatic ecosystems, Estuaries, Chemical effluents, Industrial wastes, Test and evaluation, Dose-response evaluation, Water pollution control, *Biomonitoring, NPDES(National Pollutant Discharge Elimination System), Marine/Estuarine Complex Effluent Toxicity Testing Program.

PB94-210416/REB PC **A03**/MF **A01**
Modeling the Accumulation of Three Waterborne Chlorinated Ethanes in Fathead Minnows ('Pimephales promelas'): A Physiologically Based Approach. Journal article.
Environmental Research Lab.-Duluth, MN.
G. J. Lien, J. W. Nichols, J. M. McKim, and C. A. Gallinat. c1994, 14p EPA/600/J-94/354
Pub. in Environmental Toxicology and Chemistry, v13 n7 p1195-1205 1994. Prepared in cooperation with AScI Corp., Duluth, MN.

A physiologically based kinetic model was used to predict the accumulation of a homologous series of chlorinated ethanes in fathead minnows (Pimephales promelas). Uptake and accumulation of these compounds are described in terms of a few fundamental physiological, morphological, and physicochemical parameters. Chemical residues in 30-d-old fathead minnows exposed to 1,1,2,2-tetrachloroethane, pentachloroethane, and hexachloroethane were used to evaluate model performance. The predicted and observed accumulations of the chlorinated ethanes were in close agreement. A quantitative assessment of the major factors regulating the exchange of these compounds indicates that the cutaneous surface may be an important route of uptake in small fish.

Keywords: *Water pollution effects(Animals), *Chlorinated hydrocarbons, *Ethane, *Pharmacokinetics, Chemical models, Regional blood flow, Skin(Anatomy), Physiology, Reprints, *Pimephales promelas, *Minnows, Ethane/1-1-2-2-tetrachloro, Ethane/pentachloro, Ethane/hexachloro.

PB94-210424/REB PC **A03**/MF **A01**
Field-Deployable Monitors for Volatile Organic Compounds in Air. Conference proceedings.
Environmental Protection Agency, Research Triangle Park, NC.
R. E. Berkley. c1994, 12p EPA/600/J-94/353
Pub. in Process Control and Quality, v5 p159-164 1993. Presented at the IFPAC Conference (7th), Galveston, TX., January 26-27, 1993.

Volatile organic compounds in ambient air are usually estimated by trapping them from air or collecting whole air samples and returning them to a laboratory for analysis by gas chromatography using selective detection. Data do not appear for several days, during which sample integrity could become compromised. Immediate data can be obtained, and sampling errors minimized, by analyzing with a field-deployable instrument at the time samples are collected. Portable gas chromatographs are available, but they don't fully meet the need for quick, high-quality data under field conditions. Improved waterproofing, temperature regulation, and energy efficiency are particularly crucial to true field-detection, high-speed chromatography, polycapillary chromatography, and peak modulation may lead to useful enhancements in future.

Keywords: *Air pollution monitoring, *Organic compounds, *Portable equipment, Air pollution sampling, Gas chromatography, Performance evaluation, Quality control, Field tests, Reprints, VOCs(Volatile organic compounds).

PB94-210432/REB Standing Order
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Inventory of Constructed Wetlands in the United States. Journal article (Interim) Dec 89-Mar 92.
Environmental Engineering Consultants, Norwich, VT.
D. S. Brown, and S. C. Reed. c1994, 12p EPA/600/J-94/352
Contract EPA-68-CO-0027
Pub. in Water Science and Technology, v29 n4 p309-318 1994. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

During 1990 and 1991 the U.S. Environmental Protection Agency (EPA) sponsored an effort to identify existing and planned constructed wetlands in the U.S. and to collect readily available information from operating systems. The inventory documented the presence of over 150 constructed wetland systems for wastewater treatment, including both free water surface (FWS) and subsurface flow (SF) systems. The majority of the systems identified were SF systems for treating municipal wastewater. FWS systems were separated into three groups based on the design level of effluent water quality. SF systems were separated into three groups based on the basic design approach. The inventory indicated that neither between or within these groups was there consensus regarding basic hydraulic and engineering design criteria, system configuration, or any other aspect, such as, type of vegetation, size and type of media, or pretreatment. Information on location, type of systems, design approach, hydraulic and organic loading rates; costs, and other aspects is presented.

Keywords: *Environmental protection, *Wetlands, *Inventories, *Sewage treatment, *Municipalities, Water flow, Surface waters, Subsurface drainage, Environmental engineering, Design criteria, Sites, United States, Hydraulics, US EPA, Graphs(Charts), Reprints, *Constructed wetlands, Organic loading.

PB94-210440/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Improved Model for Estimating Emissions of Volatile Organic Compounds from Forests in the Eastern United States. Journal article Sep 92-Oct 93.
National Center for Atmospheric Research, Boulder, CO. Atmospheric Chemistry Div.
C. D. Geron, A. B. Guenther, and T. E. Pierce. c20 Jun 94, 22p EPA/600/J-94/351
Contract EPA-68W00043
Pub. in Jnl. of Geophysical Research, v99 nD6 p12,773-12,791 Jun 94. Prepared in cooperation with National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The article discusses an improved model for estimating emissions of volatile organic compounds (VOCs) from forests in the Eastern U.S. Regional estimates of biogenic volatile organic compound (BVOC) emissions are important inputs for models of atmospheric chemistry and carbon budgets. Since forests are the primary emitters of BVOCs, it is important to develop reliable estimates of their areal coverage and BVOC emission rate. A new system is developed to estimate these emissions for specific tree genera at hourly and county level resolution. The U.S. Department of Agriculture (USDA) Forest Services' Forest Inventory and Analysis (FIA) Eastwide Database is used to describe areal extent, species composition, and tree diameter distribution of U.S. forests. Horizontal canopy occupancy by genera is then estimated as a function of diameter at breast height. Growing season peak foliar masses are derived from the empirical literature for canopies of deciduous and coniferous genera. A simple canopy model is used to adjust photosynthetically active solar radiation at five vertical levels in the canopy.

Keywords: *Ecosystems, *Mathematical models, *Forest management, *Pollution control, Reprints, Estimates, Emissions, Volatile organic compounds, Bioindicators, Atmospheric composition, Carbon cycle, Forest trees, Biomass, Species diversity, Conifers, Oak trees, Photosynthesis, Nitrogen oxides, Solar radiation, Plant growth, Terpene compounds, *Eastern Region(United States), Plant canopies, Diameter at breast height.

PB94-210457/REB PC **A02**/MF **A01**
Characterization of Chromium-Contaminated Soils Using Field-Portable X-ray Fluorescence. Journal article.
Robert S. Kerr Environmental Research Lab., Ada, OK.
R. W. Puls, D. A. Clark, C. Carlson, and J. Vardy. c1994, 8p EPA/600/J-94/350
Pub. in Ground Water Monitoring and Remediation, p111-115 Summer 1994. See also DE92014826 and PB90-183583. Prepared in cooperation with Coast Guard, Elizabeth City, NC.

Metals contamination of subsurface soils and ground water from a variety of industrial sources and uses has increasingly been discovered over the past decade. Strategies are needed to efficiently and accurately characterize these types of sites to determine if soil remediation is possible and/or practical. Chromium is one of several metal contaminants often found at hazardous waste sites (DOE 1992; Sims 1986; U.S. EPA 1989). It has many industrial and manufacturing uses in the United States and other countries. Due to the frequent occurrence of chrome plating sites and attendant environmental pollution, research was initiated to study this generic type of metal site. A cooperative project between the U.S. Cost Guard and the Robert S. Kerr Environmental Research Laboratory, U.S. Environmental Protection Agency, was initiated in 1990 to evaluate various methods of site characterization at metals-contaminated waste sites. In particular, the uses of field-portable X-ray fluorescence (XRF) technology to determine total metals contamination in soils was evaluated.

Keywords: *Soil surveys, *Chromium, *X ray fluorescence, Portable equipment, Heavy metals, Soil pollution, Site surveys, Field tests, US Coast Guard, US EPA, Ground water, Pollution control, Hazardous materials, Chemical analysis, Reprints, XRF technology, Environmental Protection Agency.

PB94-210465/REB PC **A03**/MF **A01**
Robert S. Kerr Environmental Research Lab., Ada, OK.
Transformation of Carbon Tetrachloride by Pyrite in Aqueous Solution. Journal article.
Stanford Univ., CA. Dept. of Civil Engineering.
M. R. Kriegman-King, and M. Reinhard. c1994, 12p EPA/600/J-94/349
Grant EPA-R-816776
Pub. in Environmental Science and Technology, v28 p692-700 1994. Sponsored by Robert S. Kerr Environmental Research Lab., Ada, OK.

The reactivity of CCl4 with pyrite was investigated by measuring the CCl4 transformation rates and products under aerobic and anaerobic conditions. Under all reaction conditions, >90% of the CCl4 was transformed within 12-36 days in the presence of 1.2-1.4 sq m/L pyrite at 25 C. A zero-order dependence on the CCl4 concentration supports a surface-controlled reaction mechanism wherein the rate of reaction depends on the absorbed CCl4 concentration. In aerobic systems >70% of the CCl4 was transformed to CO2 whereas in a fresh-ground/anaerobic pyrite system approximately 50% of the CCl4 was transformed to CHCl3. X-ray photoelectron spectroscopy of the reacted pyrite showed that an FeOOH coating formed on the surface under aerobic conditions. Under all reaction conditions, the pyrite surface was depleted of ferrous iron.

Keywords: *Carbon tetrachloride, *Pyrite, *Bioconversion, *Water pollution, Surface chemistry, Sulfide minerals, Reaction kinetics, Anaerobic processes, Water chemistry, Dechlorination, Aerobic processes, Iron inorganic compounds, Reprints.

PB94-210473/REB PC **A03**/MF **A01**
Determination of Polychlorinated Biphenyl Levels in the Serum of Residents and in the Homogenates of Seafood from the New Bedford, Massachusetts Area: A Comparison of Exposure Sources through Pattern Recognition Techniques. Journal article.
Corvallis Environmental Research Lab., OR.
V. W. Burse, D. F. Groce, S. P. Caudill, M. P. Korver, and D. L. Phillips. c1994, 27p EPA/600/J-94/348
Pub. in Science of the Total Environment 144, p153-177 1994. Prepared in cooperation with Centers for Disease Control and Prevention, Atlanta, GA. Div. of Environmental Health Lab. Sciences. and Massachu-

setts Dept. of Public Health, Boston. Center for Labs. and Communicable Disease Control.

Gas chromatographic patterns of polychlorinated biophenyls (PCBs) found in the serum of New Bedford, MA residents with high serum PCBs were compared to patterns found in lobsters and bluefish taken from local waters, and goats fed selected technical Aroclors (e.g., Aroclors 1016, 1242, 1254, or 1260) using Jaccard measures of similarity and Principal Component Analysis. Pattern in humans were silimar to patterns in lobsters and both were more similar to those in the goat fed Aroclor 1254 as demonstrated by both pattern recognition techniques. However, patterns observed in humans, lobsters and bluefish all exhibited some presence of PCBs more characteristic of Aroclors 1016 and/or 1242 or 1260.

Keywords: *Polychlorinated bipenyls, *Seafood, *Humans, *Water pollution effects, Bioaccumulation, Lobsters, Fishes, Food chains, Exposure, Blood serum, Animal tissues, Bioassay, Mass spectroscopy, Gas chromatography, Pattern recognition, Principal components analysis, Massschusetts, Reprints, New Bedford(Massachusetts), Bristol County(Massachusetts), Bluefish, Homogenates.

PB94-210481/REB PC **A03**/MF **A01**
Mapping Critical Levels of Ozone, Sulfur Dioxide and Nitrogen Dioxide for Crops, Forests and Natural Vegetation in the United States. Journal article.
Corvallis Environmental Research Lab., OR.
B. J. Rosenbaum, T. C. Strickland, and M. K. McDowell. c1994, 15p EPA/600/J-94/347
Portions of this document are not fully legible. Pub. in Water, Air and Soil Pollution 74, p307-319 1994. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR.

Air pollution abatement strategies for controlling nitrogen dioxide, sulfur dioxide, and ozone emissions in the United States focus on a 'Standards-based' approach. This approach places limits on air pollution by maintaining a baseline value for air quality, no matter what the ecosystem can or cannot withstand. In the paper, the authors present example critical levels maps for the conterminous U.S. developed using the 'effects-based' mapping approach as defined by the United Nations Economic Commission for Europe's Convention on Long-Range Transboundary Air Pollution, Task Force on Mapping. The approach emphasizes the pollution level or load capacity an ecosystem can accommodate before degradation occurs, and allows for analysis of cumulative effects. They present the first stage of an analysis that reports the distribution of exceedances of critical levels for NO2, SO3, and O3 in sensitive forest, crop, and natural vegetation ecosystems in the contiguous United States. They conclude that extrapolation to surrounding geographic areas requires the analysis of diverse and compounding factors that preclude simple extrapolation methods. (Copyright (c) 1994 Kluwer Academic Publishers.)

Keywords: *Ozone, *Nitrogen dioxide, *Sulfur dioxide, *Forests, *Air pollution abatement, *Ecosystems, Reprints, Emissions, Mapping, Air pollution effects, Vegetation, Farm crops, Spatial distribution, Geographical areas, Degradation, Climatology, Extrapolation, Statistical analysis, Long-range pollution level, Critical levels.

PB94-210499/REB PC **A01**/MF **A01**
Mycorrhizae After Quality and Quantity of Carbon Allocated below Ground. Journal article.
Corvallis Environmental Research Lab., OR.
P. T. Rygiewicz, and C. P. Andersen. c1994, 5p EPA/600/J-94/346
Portions of this document are not fully legible. Color illustrations are reproduced in black and white. Pub. in Nature, v369 p58-60, 5 May 94.

Plants and soils are a critically important element in the global carbon-energy equation. It is estimated that in forest ecosystems over two-thirds of the carbon is contained in soils and peat deposits. Despite the importance of forest soils in the global carbon cycle, fluxes of carbon associated with fundamental processes and soil functional groups are inadequately quantified, limiting our understanding of carbon movement and sequestration in soils. The authors report the direct measurement of carbon in and through all major pools of a mycorrhizal (fungus-root) coniferous seedling (a complete carbon budget). The mycorrhizal symbiont reduces overall retention of carbon in the plant-fungus symbiosis by increasing carbon in roots and below-ground respiration and reducing its retention and release above ground. Below ground, mycorrhizal plants shifted allocation of carbon to pools that are rapidly turned over, primarily to fine roots and fungal hyphae, the host root and fungal respiration. Mycorrhizae alter the size of below-ground carbon pools, the quality and, therefore, the retention time of carbon below ground.

Keywords: *Carbon isotopes, *Forests, *Ecosystems, Carbon dioxide, Pine trees, Soils, Carbon cycle, Respiration, Roots, Plants(Botany), Measurement, Photosynthesis, Fungus diseases, Climate, Atmospheric composition, US EPA, Reprints, *Pinus ponderosa, Carbon 14, Pine trees, Hebelona crustuliniform, Host, Mycorrhizae.

PB94-210507/REB PC **A03**/MF **A01**
Impairment of Growth and Immune Function of Avocet Chicks from Sites with Elevated Selenium, Arsenic, and Boron. Journal article.
Corvallis Environmental Research Lab., OR.
A. Fairbrother, M. Fix, T. O'Hara, and C. A. Ribic. c1994, 13p EPA/600/J-94/345
Pub. in Jnl. of Wildlife Diseases 30, n2 p222-233 Apr 94. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR., Wisconsin Univ., Madison. Coll. of Veterinary Medicine., and Mississippi State Univ., Mississippi State. Coll. of Veterinary Medicine.

Avocet chicks hatched from eggs collected from the south Central Valley of California were studied to determine the impact of elevated concentrations of selenium, boron, and arsenic on the immune system and growth to maturity. Selenium, arsenic, and boron residues were measured in water, eggs, and tissues of birds that died or were killed at the end of the experiment. Westfarmers pond had elevated concentrations of selenium, boron, and arsenic. Pryse ponds also had elevated selenium, arsenic, and boron concentrations as compared to the reference site. The birds that were most severely impacted by exposure to these compounds were those that hatched from eggs collected from Pryse ponds.

Keywords: *Toxicity, *Water pollution effects(Animals), *Birds, Arsenic, Selenium, Boron, Reproduction(Biology), Mortality, Growth, Immunology, Morphology, Pryse Pond, Westfarmers Pond, Assaying, Reprints, *Avocets, *Recurvirostra americana, *Central Valley(California).

PB94-210515/REB PC **A02**/MF **A01**
Quantification in Soil of 'Bacillus thuringiensis' var. 'kurstaki' delta-Endotoxin from Transgenic Plants. Journal article.
Corvallis Environmental Research Lab., OR.
C. J. Palm, K. Donegan, D. Harris, and R. J. Seidler. c1994, 10p EPA/600/J-94/344
Pub. in Molecular Ecology 3, p145-151 1994. Prepared in cooperation with ManTech Environmental Technology, Inc., Corvallis, OR.

Transgenic plants that produce pesticidal proteins have the potential to release these products into the environment when the plants are incorporated into soil. This could result in novel exposure of soil organisms to these pesticidal proteins. There is a lack of knowledge about the fate and persistence of transgenic pesticidal products in the soil. A model system of transgenic cotton, which produces Bacillus thuringiensis kurstaki (delta)-endotoxin (Bt toxin), was used to address this issue. Methods were developed to quantify Btk toxin in soil and soil/plant litter by extraction of the Btk toxin with an aqueous buffer and quantification by ELISA. The highest recovery of Btk toxin from soil was obtained with a high salt, high pH buffer. The method was shown to be useful in tracking over time the persistence of both purified and transgenic Btk toxin in laboratory experiments.

Keywords: *Transgenic plants, *Genetic engineering, *Soil, *Toxins, Biotechnology, Pest control, Plant genetics, Proteins, Plant ecology, Cotton plants, Biological insect control, Assaying, Reprints, *Bacillus thuringiensis kurstaki delta-endotoxin, Btk toxin, Bacillus thuringiensis toxin, Bt toxin.

PB94-210523/REB PC **A02**/MF **A01**
Effects of Activated Charcoal Filtration and Ozonation on Hydrocarbon and Carbonyl Levels of Ambient Air Used in Controlled-Exposure Chamber Studies of Air Pollutant Human Health Effects. Symposium paper.
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
B. E. Tilton, J. J. Bufalini, S. A. Meeks, and B. W. Gay. 1994, 8p EPA/600/A-94/166

Air sampling experiments were done in 1985, 1987, and 1993 at the human-exposure chamber facility of the U.S. EPA Health Effects Research Laboratory in Chapel Hill, NC. Measurements of volatile organic compounds (VOCs) by GC-FID and aldehyde measurements by the DNPH silica gel cartridge method were made, comparing levels at the outside air intake to levels in the human controlled-exposure chamber. Ambient air passed through activated-charcoal filters can contain varying residual amounts of water vapor and gaseous pollutants such as hydrocarbons, oxygenates, and other organic and inorganic species. When the charcoal-filtered air stream is exposed to high-intensity radiation to generate ozone for use in human controlled-exposure experiments, there may be formation of compounds other than ozone. Results of measurements of some compounds of interest are discussed.

Keywords: *Air pollution effects(Humans), *Test chambers, *Activated carbon treatment, *Ozonization, Carbonyl compounds, Hydrocarbons, Ozone, Air pollution sampling, Health risks, Respiratory diseases, Silica gel, VOCs(Volatile organic compounds).

PB94-210531/REB PC **A02**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Experimental Design for Performance Measurements of C1 to C4 Carbonyls Using DNPH-Coated Silica Gel and C-18 Cartridges. Symposium proceedings.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
T. E. Kleindienst, E. W. Corse, F. T. Blanchard, and W. A. Lonneman. 1994, 10p EPA/600/A-94/165
Contract EPA-68-DO-0106
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

Carbonyl compounds are important constituents in urban and global atmospheres. In urban atmospheres these compounds frequently serve to initiate photochemical smog and certainly sustain the chain reactions leading to ozone formation. Measurement of carbonyl compounds under atmospheric conditions requires techniques that are both sensitive and free of interferences. For low molecular-weight aldehydes and ketones derivatization techniques with 2,4-dinitrophenylhydrazine (DNPH) have been used with some frequency in recent times. In the study, DNPH coated on two of the most popular substrates (silica gel and c(18)) have been examined for measuring C(1) to C(4) carbonyl components found in the atmosphere. The study is designed to evaluate the sensitivity, reproducibility, and effect of interferences, particularly ozone, on carbonyl measurements using these systems.

Keywords: *Air pollution sampling, *Carbonyl compounds, *Adsorbents, *Experimental design, Performance evaluation, Phenylhydrazines, Quality control, Reproducibility, Sensitivity, Silica gel, Ozone, Atmospheric composition, *DNPH(2-4-Dinitrophenylhydrazine), *Phenylhydrazine/2-4-dinitro, Carbon 18 cartridge.

PB94-210549/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
Intercomparison of Two Regional Photochemical Models. Conference paper Jan 93-Apr 94.
MCNC, Research Triangle Park, NC. North Carolina Supercomputing Center.
R. Mathur, A. F. Hanna, K. L. Schere, and R. L. Dennis. 1994, 18p EPA/600/A-94/164
Contract EPA-R816496
Prepared in cooperation with National Oceanic and Atmospheric Administration, Research Triangle Park,

NC. Atmospheric Sciences Modeling Div. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.

The study attempts to investigate the relative predictability of two major regional scale photochemical models by comparing concentration predictions for various atmospheric chemical species. The Regional Acid Deposition Model (RADM) and the Regional Oxidant Model (ROM) are used to simulate a specific ozone episode over the northeast United States. Trends in spatial and temporal distributions of various photochemical species are compared. Further, the ability of the two models to elucidate relationships between precursor species such as NOx and hydrocarbons with secondary pollutants such as O3, PAN, HNO3, and H202 is examined. Results from the initial phase of the study indicate that although the models show similar spatial patterns of species concentrations, systematic differences in their predictions do occur. The differences result from a combination of effects arising from among others, differences in input emissions and meteorology, numerical representation of the processes and differences inherent to the chemical mechanisms and formulation of the models.

Keywords: *Atmospheric chemistry, *Photochemical reactions, *Air pollution, *Mathematical models, Concentration(Composition), Regional analysis, Comparative evaluation, Oxidation, Acid rain, Ozone, Predictions, Nitrogen oxides, Peroxy organic compounds, *RADM(Regional Acid Deposition Model), *Regional Acid Deposition Model, *ROM(Regional Oxidant Model), *Regional Oxidant Model.

PB94-210556/REB PC **A01**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC.
Cleanliness of Common Air Sampling Sorbents for Application to Phenolic Compounds Measurement Using Supercritical Fluid Extraction.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
J. R. Bowyer, and J. D. Pleil. 1994, 5p EPA/600/A-94/163
Contract EPA-68-DO-0106
Sponsored by Environmental Protection Agency, Research Triangle Park, NC.

The trace-level measurement of phenolic compounds in the ambient air is complicated by the acidic and polar nature of the compounds especially during recovery from the sampling medium. Recently, supercritical fluid extraction (SFE) has been proposed as an alternative extraction method to Soxhlet extraction or thermal desorption to achieve more efficient recoveries. For such methodology to become practical, the candidate sorbents must first be tested for stability and cleanliness under SFE conditions. The paper describes exploratory research results of background contamination tests and cleanup properties of some common air sampling sorbent media with respect to future application to phenolic compounds monitoring.

Keywords: *Air pollution sampling, *Sorbents, *Phenols, *Solvent extraction, Supercritical fluid, Organic solvents, Chemical analysis, Pollution control, Technology innovation, *Supercritical fluid extraction.

PB94-210564/REB PC **A01**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Control of Trace Metal Species in Combustion Systems. Rept. for Dec 92-Apr 93.
Acurex Environmental Corp., Research Triangle Park, NC.
J. R. Morency, S. Srinivasachar, P. M. Lemieux, J. V. Ryan, and M. C. Meckes. 1994, 5p EPA/600/A-94/162
Contract EPA-68-DO-0141
Presented at the Air and Waste Management Association Annual Meeting, Cincinnati, OH., June 19-24, 1994. See also PB88-239223, PB91-120006, and PB94-170313. Prepared in cooperation with PSI Technology Co., Andover, MA. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The paper discusses the control of trace metal species in combustion systems. PSI Technology Co., through US Environmental Protection Agency (EPA)-funded research under the Superfund Innovative Technology Program, has developed and patented the MelDAS (Metal Immobilization and Decontamination of Aggregate Solids) process. Details of the process can vary depending on the application, but the essential steps are: (1) combine the toxic-metal-containing solid with the appropriate amount of sorbent, (2) form this mixture into pellets or briquettes, placing the metal compounds into intimate contact with the sorbent, and (3) heat-treat the pellets, causing a reaction to form nonleachable metal compounds. Although the MelDAS process applies to a wide range of metal-contaminated materials, the experiments in the work were conducted to assess its use in the remediation of soils contaminated with organics and metals.

Keywords: *Air pollution control, *Metals, *Combustion, *Superfund, Technology innovation, Decontamination, Sorbents, Remedial action, Toxicity, Stationary sources, Leaching, Pelleting, Vaporizing, Soil pollution, US EPA, Reprints, MelDAS process, Environmental Protection Agency.

PB94-210572/REB PC **A03**/MF **A01**
Radon Control Strategies (Chapter 8). Book chapter Dec 92-May 93.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
K. W. Leovic, and R. Roth. Jun 94, 23p EPA/600/A-94/161
Pub. in Radon: Prevalence, Measurements, Health Risks and Control, ASTM Manual Series; MNL 15, p112-133 Jun 94. Prepared in cooperation with Amway Corp., Ada, MI. Research and Development Div.

The chapter covers strategies that can be used to effectively reduce elevated radon levels in buildings. It provides an overview in diagnosing radon problems and in selecting radon control strategies both in existing structures and in new construction. It covers methods for diagnosing radon problems and detailed descriptions of several radon control strategies: soil depressurization, sealing of radon entry routes, building pressurization, removing sources of radon, ventilation, air cleaning, and removing radon from water. It concludes with a summary of radon control strategies with typical ranges of radon reduction, contractor installation costs, and operating costs; information on post-installation testing; and long-term maintenance of radon control systems.

Keywords: *Radon, *Indoor air pollution, *Air pollution control, Radionuclide migration, Environmental transport, Natural radioactivity, Air flow, Soil-structure interactions, Soil gases, Buildings, Sealing materials, Foundations, Permeability, Pressurization, Ventilation, Air cleaning, Active soil depressurization, Subslab depressurization systems.

PB94-210580/REB PC **A04**/MF **A01**
Corvallis Environmental Research Lab., OR.
15N Natural Abundance and (15)N Labelling Studies in Forest Ecosystems. Book chapter.
Marine Biological Lab., Woods Hole, MA. Ecosystems Center.
K. J. Nadelhoffer, and B. Fry. 1994, 55p EPA/600/A-94/160
Pub. in Stable Isotopes in Ecology, 1993. Sponsored by Corvallis Environmental Research Lab., OR.

The relative amounts of the two stable isotopes of Nitrogen (N), 15N and 14N, vary predictably in soils and plant tissues of forests and other non-cultivated ecosystems. Slight fractionations, or discriminations against the heavier N isotope, that can occur as N cycles through vegetation, soils and microbial biomass act over the long term to deplete vegetation and litter of 15N and to enrich humus in 15N. In this chapter, the authors show that 15N natural abundances can be used to make inferences about (1) rates and patterns of N cycling, (2) the relative importance of N inputs versus soil processes in supplying N for plant uptake, (3) retention of N by forests and (4) forest ecosystem health. The authors also discuss uses of 15N-labelling ecosystem-scale experiments on whole forests. Such experiments offer possibilities for checking and improving estimates of N fluxes within and N losses from forests.

Keywords: *Nitrogen isotopes, *Forests, *Ecosystems, Variations, Soils, Vegetation, Plant tissues, Distillation, Biochemical cycles, Nitrification, Isotopic labeling, Sampling, Mathematical models, Ammonium compounds, Concentration(Composition), Natural abundances, Patterns.

PB94-210598/REB PC **A03**/MF **A01**
Group Report: Interactions among Acidification, Phosphorus, Contaminants, and Biota in Freshwater Ecosystems (Chapter 13). Book chapter.
Corvallis Environmental Research Lab., OR.
D. H. Landers, S. E. Bayley, J. Ford, J. M. Gunn, and A. Luekewille. c1994, 19p EPA/600/A-94/159
Pub. in Acidification of Freshwater Ecosystems: Implications for the Future, 1994. Prepared in cooperation with Ontario Ministry of Natural Resources, Toronto., Alberta Univ., Edmonton., and Maine Univ., Augusta.

Scientific investigations over the last two decades have examined the processes and effects of acidic deposition on surface waters and their catchments. These studies have been performed on various scales: laboratory benchtop, mesocosm/plot studies, whole system manipulations, and regional and national surveys. The processes and mechanisms of acidification of fresh waters have been studied intensively, and investigations have examined closely associated phenomena that influence the availability, transport, and biogeochemistry of acids and related substances. The authors have learned a great deal about the linkages among watershed processes, hydrology, microbial activities, and water chemistry. These factors interact to create the physical and chemical environment in which biota are exposed to an almost infinite array of conditions. Some of these conditions are so adverse that specific organisms can no longer survive; other conditions may result in sublethal effects that have less visible but important results. The purpose of this group report is to relate what the authors have learned about acification and the fate, transport, and effects of other contaminants that may co-occur with acidic ecosystems. (Copyright (c) 1994 John Wiley and Sons Ltd.)

Keywords: *Acidification, *Surface waters, *Phosphorus, *Aquatic ecosystems, *Fresh water biology, Watersheds, Hydrology, Microorganisms, Water chemistry, Physical properties, Catch basins, Chemical properties, Variations, Metals, Atmospheric composition, Sediment transport, Biochemistry, Survival, Reprints, Acid deposition, Acid rain.

PB94-210606/REB PC **A03**/MF **A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Performance of Gravel Bed Wetlands in the United States. Interim rept. Dec 89-Mar 92.
Environmental Engineering Consultants, Norwich, VT.
S. C. Reed, and D. S. Brown. 1994, 11p EPA/600/A-94/167
Contract EPA-68-C0-0027
Presented at the IAWPRC Specialist Conference 'Wetland Systems in Water Pollution Control', Sydney, Australia, November 30-December 3, 1992. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Several hundred gravel bed, or subsurface flow (SF) wetland systems exist in the United States ranging in size from single family dwellings to municipal systems designed for flows up to 11,000 cu m/d. Most of these systems have been constructed in the period 1988 to 1992 without the benefit of a consensus on design, construction or operational procedures. The U.S. Environmental Protection Agency (EPA) commenced a continuing series of studies in 1989 to identify the critical issues and to develop appropriate process criteria for this concept. These efforts have included a detailed survey, on-site visits and performance evaluations, and special data collection and evaluation programs at selected sites. The focus of the paper is on the capability of these systems to remove biochemical oxygen demand (BOD5), total suspended solids (TSS), and ammonia nitrogen (NH3 as N), since these are the major water quality parameters controlled by the regulatory agencies in the U.S.

Keywords: *Subsurface flow, *Gravel, *Wetlands, *Water pollution control, *United States, Municipalities, Surveys, Residential buildings, Sites, Removal, Biochemical oxygen demand, Nitrogen, Operations, Flow rate, Performance evaluation, Standards, Waste treatment, USEPA, Tables(Data), *Constructed wetlands, Total suspended solids, Organic loading.

PB94-210614/REB PC **A07**/MF **A02**
Corvallis Environmental Research Lab., OR. Environmental Monitoring and Assessment Program.

Research and Quality Assurance Methods Used in the EMAP Prairie Wetlands Pilot Study.
ManTech Environmental Research Services Corp., Corvallis, OR. Environmental Research Lab.
K. A. Dwire. Jun 94, 139p EPA/620/R-94/018
Contract EPA-68-C4-0019
Sponsored by Corvallis Environmental Research Lab., OR. Environmental Monitoring and Assessment Program.

This document provides an interim summary of the research methods and quality assurance (QA) activities used during the Prairie Wetlands Pilot Study, which is part of the U.S. Environmental Protection Agency (EPA)'s Environmental Monitoring and Assessment Program (EMAP). The Prairie Wetlands Pilot Study is the first field exercise to test EMAP indicators and their ability to detect differences in the condition of wetlands located in the Prairie Pothole Region (PPR) of the North Central United States. The research, conducted by scientists at the U.S. Fish and Wildlife Service, Northern Prairie Wildlife Research Center (NPWRC), Jamestown, North Dakota, was planned and implemented in cooperation with EMAP-Wetlands staff at the U.S. EPA Environmental Research Laboratory, Corvallis (ERLC). Indicators include landscape characterization, waterfowl production, vegetation, water quality, water regime, macroinvertebrate and amphibian composition and abundance, amphibian stress, sediment accretion, and soil and sediment characteristics. Data and samples were collected during the 1992 and 1993 field seasons.

Keywords: *Research projects, *Wetlands, *Aquatic ecosystems, *Wildlife, Water quality, Invertebrates, Amphibia, Vegetation, Production, Waterfowl, Stress(Physiology), Sediments, Soil properties, Field tests, Abundance, US EPA, Sampling, Populations, Quality control, Test methods, *North Central Region(United States), EMAP(Environmental Monitoring and Assessment Program), Macroinvertebrates, Prairie potholes.

PB94-210622/REB PC A03/MF A01
Evaluation of a New Fluorometric Technique That Uses Highly Selective Interference Filters for Measuring Chlorophyll a in the Presence of Chlorophyll b and Pheopigments. Summary Report.
Environmental Monitoring Systems Lab., Cincinnati, OH. Chemistry Research Div.
E. J. Arar. Jul 94, 33p EPA/600/R-94/150

A new fluorometric technique was compared to conventional fluorometry with and without pheophytin a (pheo a) correction and to spectrophotometry using Lorenzen's modified monochromatic equations and Jeffrey and Humphrey's trichromatic equation to calculate chlorophyll a (chl a). The new technique uses excitation and emission filters that are highly selective for chl a, eliminating the interference caused by accessory pigments and pheopigment degradation products. Four method parameters were evaluated using the new technique, conventional fluorometry and spectrophotometry. They were (1) sensitivity, (2) linear dynamic range, (3) precision, and (4) accuracy.

Keywords: *Fluorometers, *Chlorophylls, *Test methods, Performance evaluation, Plant pigments, Filters, Parameters, Optical measuring instruments, Spectrophotometry, Fluorescence, Chlorophyll a, Chlorophyll b, Phenophytin a.

PB94-210630/REB PC A03/MF A01
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Risk Reduction Engineering Laboratory Site Remediation Technical Support Program: FY93 Annual Report. Final rept.
Science Applications International Corp., Cincinnati, OH.
Aug 94, 14p EPA/600/R-94/151
Contract EPA-68-C8-0048
See also PB93-217651. Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

The Risk Reduction Engineering Laboratory provides technical support to the EPA Regional Offices and the Office of Solid Waste and Emergency Response on engineering problems associated with site remediation. The Laboratory's Technical Support Branch coordinates this support. This report summarizes the activities and accomplishments of the technical support program in fiscal year 1993.

Keywords: *US EPA, *Hazardous materials, *Test facilities, Soil pollution, Remedial action, Superfund, Waste disposal, Waste treatment, Risk assessment, Research projects, Technical assistance, Technology transfer, Research and development, *Risk Reduction Engineering Laboratory, Treatment technology.

PB94-210648/REB PC A03/MF A01
Challenges in Wetland Restoration and Creation (Book Chapter). Technical rept.
Corvallis Environmental Research Lab., OR.
M. E. Kentula. 14 Jun 94, 37p EPA/600/R-94/152
Pub. in U.S. Geological Survey National Water Survey, 1994.

The interaction between human uses of land and the protection and maintenance of health ecosystems has confronted societies throughout the ages. Increased understanding of natural ecosystems has allowed us to begin addressing many concerns such as loss of wildlife habitat and decreased recreational opportunities for inner city children. Natural ecosystems are being managed as wilderness areas and are protected against direct human intervention. In urban areas open spaces, such as park lands, flourish as highly modified ecosystems. Whatever the setting, very few places on Earth have not been affected either directly or indirectly by human activities. To balance human activities and the maintenance of the quality of our natural ecosystems, two new 'tools' are now being employed--ecosystem restoration and creation. Restoration and creation are mechanisms used to either repair a degraded ecosystem or to create a new one. This article addresses specifically the restoration and creation of wetland ecosystems.

Keywords: *Aquatic ecosystems, *Wetlands, *Environmental protection, *Wildlife, Habitats, Disturbances, Humans, Sites, Degradation, Runoff, Waste disposal, Construction, Replacing, Environmental monitoring, Water quality, *Restoration.

PB94-210655/REB PC A05/MF A01
Corvallis Environmental Research Lab., OR.
Acidic Deposition and Forest Soils: Potential Changes in Nutrient Cycles and Effects on Tree Growth.
Battelle/Marine Research Lab., Sequim, WA.
C. J. Brandt. May 94, 82p EPA/600/R-94/153
Sponsored by Corvallis Environmental Research Lab., OR.

The U.S. Environmental Protection Agency (EPA) has joined with industry, States, and local regulatory agencies, as well as pollution prevention experts, to implement the EPA's Industrial Pollution Prevention Project (IP3). The IP3 is an agency-wide, multimedia project focusing on industrial pollution prevention. The objectives of the IP3 are twofold: (1) to incorporate pollution prevention into the industrial effluent guidelines process, and (2) to extend information to industries and to the consuming public to better establish and spread the pollution prevention ethic. The IP3 includes 13 tasks, one of which is to gather together all readily available information on the pollution prevention measures implemented by industries in other countries, to put all that information into electronic files so that it is accessible to all interested parties, and to compile all the case studies into a hard-copy compendium. This compendium has been prepared by the IP3 to provide EPA, States, industries, and other interested parties with access to non-U.S. pollution prevention case studies. The compendium includes many countries' experiences related to a variety of pollution prevention concepts and technologies.

Keywords: *Foreign countries, *Pollution control, *Waste management, Industrial wastes, Sectoral analysis, Pollution abatement, Waste treatment, Waste processing, Waste disposal, Waste recycling, Manufacturing, Industry, Technology innovation, Technology transfer, Environmental protection, Pollution regulations, Case studies, *Foreign technology.

PB94-210663/REB PC A03/MF A01
Group Report: Physiological and Ecological Effects of Acidification on Aquatic Biota (Chapter 19). Book chapter.
Corvallis Environmental Research Lab., OR.
J. P. Baker, J. Boehmer, A. Hartmann, M. Havas, and A. Jenkins. c1994, 40p EPA/600/A-94/158
Pub. in Acidification of Freshwater Ecosystems: Implications for the Future, p275-312 1994. Prepared in cooperation with Wisconsin Univ.-Eau Claire.

Acidification affects all components of biological communities in lakes and streams: microbes, algae, macrophytes, invertebrates, fish amphibians, and other vertebrates that rely on aquatic ecosystems for habitat or food. Mechanisms of effect are both direct (toxic responses to changes in chemistry) and indirect (e.g., expressed through the food chain or caused by changes in habitat), and the responses may be immediate or delayed. In turn, many biological processes, especially microbial processes, can influence surface water acid-base chemistry. Thus, chemical and biological changes are intricately linked and complex, with extensive feedbacks. Research on the effects of acid deposition and acidification on aquatic biota has been ongoing in Europe and North America for over the last 15 years, and many comprehensive reviews have been published. These gaps often have occurred because funding has focused on chemical mechanisms and modeling response of systems rather than in making resource inventories or resolving uncertainties in biological responses to acidification.

Keywords: *Acidification, *Streams, *Water pollution effects, Reprints, Habitats, Biological stress, Aquatic ecosystems, Microorganisms, Acid deposition, Response, Chemical analysis, Biological adaptation, Invertebrates, Inventories, Evaluation, Tolerances(Physiology).

PB94-213063 Not available NTIS
Environmental Protection Agency, Washington, DC.
Thermal Conductivity of R134a. Final rept.
National Inst. of Standards and Technology (CSTL), Boulder, CO. Thermophysics Div.
A. Laesecke, R. A. Perkins, and C. A. Nieto de Castro. 1992, 12p
Sponsored by Environmental Protection Agency, Washington, DC.
Pub. in Fluid Phase Equilibria 80, p263-274 1992.

Thermal conductivity measurements are reported for the alternative refrigerant 1,1,1,2-tetrafluoroethane (R134a). These measurements were made over the temperature range from 200 to 390 K at pressures to 70 MPa. Data are reported for the liquid, vapor, and supercritical fluid phases. A significant critical enhancement is observed for R134a. A thermal conductivity surface, which fits our data to + or - 3.8% at 95% confidence, is provided for R134a. Correlations are also provided for the saturated vapor and saturated liquid thermal conductivity of R134a. Comparisons are made with other available thermal conductivity data for the dilute gas, saturated vapor, and saturated liquid.

Keywords: *Fluorohydrocarbons, *Thermal conductivity, Supercritical fluids, Refrigerants, Substitutes, Temperature dependence, Reprints, *R134a, Ethane/tetrafluoro.

PB94-213519/REB PC A04/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Estimate of Methane Emissions from U.S. Landfills. Final rept. Dec 92-Jan 94.
Pechan (E.H.) and Associates, Inc., Durham, NC.
M. R. J. Doorn, L. A. Stefanski, and M. A. Barlaz. Sep 94, 67p EPA/600/R-94/166
Contracts EPA-68-D1-0146, EPA-68-D9-0147
See also PB92-101351 and PB92-152875. Prepared in cooperation with North Carolina State Univ. at Raleigh. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The report describes the development of a statistical regression model used for estimating methane (CH4) emissions, which relates landfill gas (LFG) flow rates to waste-in-place data from 105 landfills with LFG recovery projects. The model has three linear segments, each of which applies to a distinct landfill size class. Assumptions were required to account for the recovery efficiency of LFG projects and for the probable oxidation of CH4 in the top soil cover of the landfill. The report details uncertainties which limit the quality of the above estimates. The report concludes with a discussion of trends which will affect future LFG emissions, as well as LFG utilization.

Keywords: *Methane, *Landfills, *Greenhouse gases, *Air pollution monitoring, Waste disposal, Emission factors, Industrial wastes, Municipal wastes, Emissions, Gas recovery, Greenhouse effect, Statistical analysis, Regression analysis, Mathematical models, Landfill gases.

PB94-213535/REB PC **A03**/MF **A01**
Cold Cleaning Machine Operations New Source Performnce Standards. Background Information/ Basis and Purpose Document.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
P. A. Almodovar. Aug 94, 39p EPA/453/D-94/067

The Administrator has identified organic solvent degreasing, of which cold cleaning machine operations are a subset, as a source of volatile organic compound (VOC) emissions that causes or contributes to air pollution that may reasonably be anticipated to endanger public health or welfare. The intent of the proposed standards is to require new, modified, and reconstructured immersion cold cleaning machines with surface areas greater than or equal to 1.8 square meters (19 square feet) to control emissions to the level achievable by the best demonstrated system of continuous emission reduction, taking into consideration cost of achieving such emission reduction and any nonair quality health and environmental impact and energy requirements.

Keywords: *Air pollution control, Chemical cleaning, Degreasing, Solvents, Naphthas, Air pollution standards, Standards compliance, Pollution regulations, Clean Air Act, Air pollution sources, Emission factors, Environmental impacts, Economic impacts, Cost analysis, *Cold cleaning, *New Source Performance Standards, Mineral spirits, Volatile organic compounds, Energy impact.

PB94-213543/REB PC **A09**/MF **A02**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Economic Impact Analysis for Proposed Emission Standards and Guidelines for Municipal Waste Combustors: A Description of the Basis for, and Impacts of, Proposed Revisions to Air Pollutant Emission Regulations for New and Existing Municipal Waste Combustors under Clean Air Act Sections 111(b), 111(d), and 129. Final rept.
Research Triangle Inst., Research Triangle Park, NC. Center for Economics Research.
B. L. Jellicorse, and J. L. Dempsey. Mar 94, 182p EPA/450/3-91/029
Contract EPA-68-D1-0143
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

EPA is proposing revised and expanded air pollutant emission standards for new, and guidelines for existing, municipal waste combustors (MWCs), pursuant to Sections 111(b), 111(d), and 129 of the Clean Air Act of 1990. The regulations will replace or supplement those promulgated by EPA on February 11, 1991. The standards and guidelines will apply to MWCs with a capacity to combust 35 or more Mg of municipal solid waste per day. The pollutants to be regulated are particulate matter (total and fine), opacity, sulfur dioxide, hydrogen chloride, oxides of nitrogen, carbon monoxide, lead, cadmium mercury, and dibenzofurans and dioxins. The report describes the standards and guidelines, their potential economic impacts, and related matters. EPA estimates the national annual cost of the standards in 1994 will be $44 million, plus the cost of the 1991 standards, $157 million, for a total of $201 million. EPA estimates the equivalent cost of the guidelines at $280 million plus $168 million for a total of $448 million.

Keywords: *Incinerators, *Municipal wastes, *Air pollution economics, *Economic impact, Air pollution control, Incineration, Air pollution standards, Standards compliance, Pollution regulations, Economic analysis, Combustion products, Emission factors, Sectoral analysis, Benefits, Clean Air Act, Regulatory impact analysis.

PB94-213618/REB PC **A02**/MF **A01**
Ground Water Currents: Developments in Innovative Ground Water Treatment, June 1994.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Jun 94, 6p EPA/542/N-94/005
See also PB94-187150.

Contents:
Low-level uranium removed from ground water;
Promising ion exchange technology seeks site for demonstration;
Pervaporation membrane removes volatile organic compounds (VOCs);
and Ground water sampling information available.

Keywords: *Ground water, *Water pollution control, *Superfund, Hazardous materials, Water treatment, Uranium, Colloids, Membranes, Filtration, Ion exchange, Fluid filters, Permeability, Waste water, Innovative treatment technology, Volatile organic compounds, Pervaporation, Colloid polishing filter method.

PB94-213634/REB PC **A04**/MF **A01**
VISITT: Vendor Information System for Innovative Treatment Technologies. User Manual (VISITT Version 3.0).
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Jul 94, 71p EPA/542/R-94/003
See also PB94-109816.

The Technology Innovation Office (TIO) of the U.S. Environmental Protection Agency (EPA) Office of Solid Waste and Emergency Response (OSWER) has developed the Vendor Information System for Innovative Treatment Technologies (VISITT) to provide current information on innovative treatment technologies for the remediation of contaminated sites. VISITT contains information on innovative treatment technologies for the remediation of contaminated sites. For this database, innovative technologies are defined as those for which a lack of performance and cost data precludes their routine use to clean up sites. Examples of innovative technologies include thermal desorption and soil vapor extraction. Technologies in VISITT address the treatment of soil, sludge, solids, and natural sediments, both above ground and in place (in situ), dense non-aqueous phase liquids (DNAPL); and light non-aqueous phase liquids (LNAPL). Also included are methods of treating ground water in situ and of treating the off-gas generated by innovative treatment systems.

Keywords: *Hazardous materials, *Remedial action, *Information systems, Waste treatment, Waste disposal, Waste processing, Vendors, Technology transfer, User manuals(Computer programs), Data bases, *Innovative treatment technology, Cleanup operations, VISITT(Vendor Information System for Innovative Treatment Technology).

PB94-213683/REB PC **A05**/MF **A02**
Environmental Protection Agency, Washington, DC. Office of Water.
Developing Successful Runoff Control Programs for Urbanized Areas. Final rept.
Northern Virginia Soil and Water Conservation District, Fairfax.
R. Iosco. 1 Jul 94, 100p EPA/841/K-94/003
Grant EPA-X-820828-01-0/1/2
See also PB93-234672. Sponsored by Environmental Protection Agency, Washington, DC. Office of Water.

The manual describes ways that local governments can approach the issues surrounding the implementation of urban runoff retrofit technology even when the control options are limited. It reviews appropriate 'ultra-urban' technologies for situations where more conventional, land-intensive control practices are not feasible. Specific recommendations are summarized to help program implementation personnel develop strong institutional frameworks and create effective urban runoff control programs. The recommendations presented are largely based on the program implementation experiences of the case study communities featured in the manual.

Keywords: *Urban runoff, *Water pollution control, *Storm water runoff, Nonpoint sources, Storm sewers, Storm drains, Surface runoff, Environmental transport, Urban drainage, Water pollution sources, Pollution regulations, Case studies, Cost analysis, Funding, NPDES(National Pollutant Discharge Elimination System), Best management practices.

PB94-213709/REB PC **A05**/MF **A01**
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Chesapeake Bay Revised Basinwide Toxics Reduction Strategy Commitments Evaluation.
Science Applications International Corp., Falls Church, VA.
14 Jul 94, 95p
Contract EPA-69-C8-0066
Sponsored by Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.

The Toxics Subcommittee of the Chesapeake Bay Program Implementation Committee, in responding to its mandate to revise the basinwide toxics reduction strategy; has actively sought the participation of diverse stakeholders. Several mechanisms were employed by the Subcommittee to include representative stakeholders from businesses, agricultural community, public interest groups, local government, state government, and federal agencies in evaluating the draft revised strategy and, in particular, the draft commitments. The commitments are organized under four areas of emphasis--pollution prevention, regulatory program implementation, regional focus, and directed toxics assessments. Stakeholder input was sought on how the commitments met four basic evaluation criteria: (1) understandable by the public, (2) feasible to achieve, (3) measurable so that progress can be reported, and (4) targeted to toxics problems in the Chesapeake Bay. At the stakeholders roundtables, attendees were provided an open forum to get feedback on the commitments.

Keywords: *Program management, *Toxicity, *Chesapeake Bay Region, *Pollution prevention, Reduction, Government agencies, Regulations, Citizen participation, Watersheds, Implementation, Recommendations, Industries, Response, Businesses, Pennsylvania, Maryland, District of Columbia, Compliance, US EPA, Sources, Strategic planning, RCRA(Resource Conservation and Recovery Act of 1990).

PB94-213832/REB PC **A04**/MF **A01**
National Estuary Program Guidance: Technical Characterization in the National Estuary Program.
Environmental Protection Agency, Washington, DC. Office of Water.
Jun 94, 51p EPA/842/B-94/006
See also PB93-217172.

Estuaries are waterways, such as bays and sounds, where fresh water drained from the surrounding watershed mixes with salt water from the ocean. Section 320 of the Clean Water Act established the National Estuary Program (NEP) to identify nationally significant estuaries threatened by pollution, development, or overuse and to promote the preparation of comprehensive management plans to ensure their ecological integrity. The program's goals are protection and improvement of water quality and enhancement of living resources. To reach these goals, the Administrator of the U.S. Environmental Protection Agency (EPA) convenes management conferences for each estuary in the NEP to provide a forum for consensus building and problem solving among interested agencies and user groups.

Keywords: *Estuaries, *Water quality management, *Coasts, *United States, Habitats, Guidelines, Watersheds, Sea water, Water conservation, Population growth, Natural resource management, Financing, National government, Regulations, Objectives, Trends, Aquatic ecosystems, US EPA, Assessments, National Estuary Program, Water Quality Act of 1987, Casco Bay Estuary Project.

PB94-213931/REB PC **A99**/MF **A06**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Food and Feeding of Young Finfish Species in the Lower Roanoke River, Batchelor Bay, and Western Albemarle Sound, North Carolina, 1982-1988. Volume 1. Text. Volume 2. Appendices. Final rept.
East Carolina Univ., Greenville, NC. Inst. for Coastal and Marine Resources.
R. A. Rulifson, J. E. Cooper, D. W. Stanley, M. E. Shepherd, and S. F. Wood. Jul 94, 692p ICMR-93-04, APES-90-16
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

The objective of this project, scheduled for initiation in October 1988, is to determine the feeding success of larvae of various fish species collected in the critical habitats of the lower Roanoke River and western Albemarle Sound from 1982 to 1988. Information obtained by examination of these preserved specimens will be compared to the zooplankton community present at the same time and location. These analyses will be compared to results obtained for larval striped bass feeding success during the same period.

Keywords: *Fish diets, *Feeding rates, *Larvae, *Juvenile fish, Water quality, Fish food organisms, North Carolina, Roanoke River, Batchelor Bay, Albermarle Sound, Food webs, Aquatic habitats, Comparison, Bass, Zooplankton, Fish taxonomy, Tables(Data), Graphs(Charts), *Albermarle-Pamlico Estuarine Study, *Finfish.

PB94-213949/REB PC **A10/MF A03**
Chesapeake Bay Atmospheric Deposition Study Phase 2: July 1990-December 1991 Appendices.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Jul 94, 219p CBP/TRS-119/94
See also Phase 1, PB94-177193 and Phase 2, Final Report, PB94-214111.

No abstract available.

Keywords: *Chesapeake Bay, *Acid rain, *Air pollution monitoring, *Water pollution sampling, Trace elements, Organic compounds, Polycyclic aromatic hydrocardons, Heavy metals, Precipitation(Meteorology), Atmospheric chemistry, Water chemistry, Aerosols, Quality assurance, Environmental transport, Graphs(Charts), Maryland, CBADS(Chesapeake Bay Atmospheric Deposition Study), Polychlorinated biphenyls, Elms(Maryland), Haven Beach(Maryland).

PB94-214079/REB PC **A06/MF A02**
Alternative Control Techniques Document: NOx Emissions from Glass Manufacturing.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
W. J. Neuffer. Jun 94, 160p EPA/453/R-94/037
See also PB88-101795.

This alternative control techniques (ACT) document describes available control techniques for reducing NOx emissions from glass furnaces. Control techniques include low NOx burners, oxy-firing, modified furnace, cullet preheat, electric boost, selective catalytic reduction, and selective noncatalytic reduction. Achievable controlled NOx emission levels, costs, and cost effectiveness and environmental and energy impacts for these controls are discussed. NOx formation and uncontrolled NOx emission levels are also discussed.

Keywords: *Glass industry, *Air pollution control, *Nitrogen oxides, Alternatives, Air pollution standards, Standards compliance, Pollution regulations, Burners, Melting furnaces, Selective catalytic reduction, Combustion efficiency, Emission factors, Environmental impacts, Economic impact, Cost analysis, Cost effectiveness, Air pollution economics, Energy impact, Oxy-firing, Selective noncatalytic reduction.

PB94-214111/REB PC **A14/MF A03**
Chesapeake Bay Atmospheric Deposition Study Phase 2: July 1990-December 1991. Final Report.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
J. E. Baker, D. Burdige, T. M. Church, G. Cutter, and R. M. Dickhut. Jul 94, 309p CBP/TRS-118/94
See also Phase 1, PB94-108321 and Phase 2, Appendices, PB94-213949. Prepared in cooperation with Maryland Univ., Solomons. Center for Environmental and Estuarine Studies., Old Dominion Univ., Norfolk, VA. Dept. of Oceanography., Delaware Univ., Lewes. Coll. of Marine Studies., and Virginia Inst. of Marine Science, Gloucester Point.

The purpose of the study was to determine atmospheric loadings of selected trace elements and organic compounds directly to the surface waters of the Chesapeake Bay. The work in this report represents the first eighteen months of the Chesapeake Bay Atmospheric Deposition Study. Future reports will describe the integrate results from the CBADS network through September 1993. An 18 month field study (6/90 - 12/91), conducted to estimate the deposition of atmospheric trace contaminants to the Chesapeake Bay, represents Phase II of the Chesapeake Bay Atmospheric Deposition Study (CBADS). Previously reported data from Phase I (6/90 - 7/91) is presented here in concert with data from 7/91 - 12/91. The trace elements (aluminum, arsenic, cadmium, chromium, copper, iron, manganese, nickel, lead, selenium, and zinc), polychlorinated biphenyl (PCBs) congeners, and polycyclic aromatic hydrocarbons (PAHs) were measured in the ambient atmosphere and in precipitation. In addition several major ions, (chloride, sulfate, nitrate, sodium) were measured in precipitation at the three sites.

Keywords: *Chesapeake Bay, *Acid rain, *Atmospheric composition, *Water pollution sampling, *Trace elements, Organic compounds, Aerosols, Precipitation(Meteorology), Polycyclic aromatic hydrocarbons, Heavy metals, Arsenic, Chromium, Iron alloys, Lead(Metal), Copper, Concentration(Composition), Maryland, Chlorine organic compounds, Biphenyl, Air masses, Polychlorinated biphenyls, Organic loading, Wye(Maryland), Elms(Maryland), Haven Beach(Maryland).

PB94-214137/REB PC **A07/MF A02**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Locating and Estimating Air Emissions from Sources of Methyl Chloroform. Final rept.
TRC Environmental Corp., Chapel Hill, NC.
Feb 94, 133p EPA/454/R-93/045
Contract EPA-68-D9-0173
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The purpose of this document is to assist federal, State, and local air pollution agencies and others who are interested in locating potential air emitters of methyl chloroform and making gross estimates of air emissions therefrom. Section 3.0 of this document briefly summarizes the physical and chemical characteristics of methyl chloroform, and provides an overview of its production and use. Section 4.0 of this document focuses on major production source categories that may discharge air emissions containing methyl chloroform. Section 5.0 discusses the uses of methyl chloroform as industrial feedstocks and major solvent uses, particularly degreasing and coating operations. Section 6.0 addresses emissions as a result of releases from methyl chloroform-containing products after manufacture and emissions resulting from the manufacture of products other than methyl chloroform, or as a by-product of processes (e.g., kraft pulping).

Keywords: *Air pollution sources, Trichloroethanes, Air pollution monitoring, Emission factors, Paint industry, Aerosols, Inks, Surface coatings, Solvents, Chemical cleaning, Waste water treatment, Chlorination, Stationary sources, Point sources, Exhaust emissions, By-products, Chemical analysis, Chemical plants, Industrial plants, Sectoral analysis, Production, Manufacturing, Materials handling, Utilization, *Methyl chloroform, *Emission inventories, Hydrochlorination, CAS 71-55-6.

PB94-214145/REB PC **A05/MF A01**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Toxic Modeling System Short-Term (TOXST) User's Guide. Volume 1, 1994.
Sullivan Environmental Consulting, Inc., Alexandria, VA.
30 Jul 94, 89p EPA/453/R-94/058A
Contract EPA-68D20189
See also PB92-164748, report for 1992, PB93-161719 and Volume 2, PB94-214152. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

This document describes the Toxic Modeling System Short-Term (TOXST) and provides instructions on its implementation. TOXST is a personal-computer-based model that has been developed in conjunction with the release of the EPA's Industrial Source Complex Dispersion Model (PB92-232446) and the publication of the EPA's 'A Tiered Modeling Approach for Assessing the Risks Due to Sources of Hazardous Air Pollution (PB92-164748). The purpose of TOXST is to assist in the evaluation of acute health hazards that may result from short-term exposure to air pollutants. This document represents a revision of the earlier version of TOXST which incorporates additional options for simulating complex intermittent sources of industrial pollution.

Keywords: *Air pollution effects(Humans), *Toxicity, *Public health, Industrial wastes, Hazardous materials, Toxic substances, Health effects, Exposure, Risk assessment, Air pollution dispersion, Environmental transport, Atmospheric diffusion, Air pollution factors, Emission factors, Algorithms, Computerized simulation, User manuals(Computer programs), TOXST modeling system.

PB94-214152/REB PC **A10/MF A03**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Toxic Modeling System Short-Term (TOXST) User's Guide: Volume 2. Case Study and Source Code.
Sullivan Environmental Consulting, Inc., Alexandria, VA.
30 Jul 94, 206p EPA/453/R-94/058B
Contract EPA-68D20189
See also Volume 1, PB94-214145. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

This document describes the Toxic Modeling System Short-Term (TOXST) and provides instructions on its implementation. TOXST is a personal-computer-based model that has been developed in conjunction with the release of the EPA's Industrial Source Complex Dispersion Model (PB92-232446) and the publication of the EPA's 'A Tiered Modeling Approach for Assessing the Risks Due to Sources of Hazardous Air Pollution,' (PB92-164748). The purpose of TOXST is to assist in the evaluation of acute health hazards that may result from short-term exposure to air pollutants. This document represents a revision of the earlier version of TOXST which incorporates additional options for simulating complex intermittent sources of industrial pollution.

Keywords: *Air pollution effects(Humans), *Toxicity, *Public health, Industrial wastes, Hazardous materials, Toxic substances, Health effects, Exposure, Risk assessment, Air pollution dispersion, Environmental transport, Atmospheric diffusion, Air pollution factors, Emissions factors, Algorithms, Computerized simulation, User manuals(Computer programs), TOXST modeling system.

PB94-214160/REB PC **A06/MF A02**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Heavy Metal Pollutants in Organic-Rich Muds of the Pamlico River Estuarine System: Their Concentration, Distribution, and Effects upon Benthic Environments and Water Quality. Final rept.
East Carolina Univ., Greenville, NC.
S. R. Riggs, E. R. Powers, J. T. Bray, P. M. Stout, and C. Hamilton. 20 Dec 89, 121p APES-89-06
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

Analyses of major, minor, and trace elements within the organic-rich muds cored at 153 stations within the Pamlico River estuarine system document specific lateral and vertical distribution and concentration of metals within the basin and define environmental conditions favoring heavy metal enrichment. Anthropogenic sources are believed to be largely responsible for heavy metal enrichment within the Pamlico River estuarine system. Sediments in the vicinity of known point source discharges are enriched in specific metals by factors up to 14 times as compared to sediments in other portions of the Pamlico River. Surface sediments have been enriched up to and occasionally in excess of 100 times the elemental concentrations occurring in sediments deeper in the cores. These areas have surface sediments that are enriched in one or more of the critical elements and include the eight EPA priority pollutant metals (As, Cr, Cd, Cu, Ni, Pb, Zn, and Hg) and other important trace elements (Co, Mn, Mo, Ti, V, F, and the nutrient element P). Enrichment is determined by comparing the concentration for each critical element to the trimmed mean for surface samples in the estuarine system.

Keywords: *Water pollution effects, *Pamlico River Estuary, *Benthos, *Spatial distribution, Sediments, Point sources, Non-point source, Sampling, Water analysis, Mercury(Metal), Standards, Fluorine,

Concentration(Composition), Phosphorus, Nickel, Lead(Metal), *Heavy metals, Trace elements.

PB94-214186/REB PC **A14/MF A03**
NTP Technical Report on the Toxicology and Carcinogenesis Studies of Hexachlorocyclopentadiene (CAS No. 77-47-4) in F344/N Rats and B6C3F1 Mice (Inhalation Studies). Technical rept. series.
National Toxicology Program, Research Triangle Park, NC.
Feb 94, 310p* NTP-TR-437, NIH/PUB-94-3168
See also PB86-134129.

Toxicology and carcinogenesis studies were conducted by exposing groups of 60 male and female F344/N rats and B6C3F1 mice to atmospheres containing 0, 0.01, 0.05, or 0.2 ppm hexachlorocyclopentadiene (approximately 98% pure) for 2 years. Under the conditions of these 2-year studies, there was no evidence of carcinogenic activity of hexachlorocyclopentadiene in male or female F344/N rats or B6C3F1 mice exposed to 0.01, 0.05, or 0.2 ppm. Exposure of rats to hexachlorocyclopentadiene produced pigmentation of the respiratory epithelium of the nose, trachea (males), and bronchi and bronchioles of the lung. Squamous metaplasia of the laryngeal epithelium occurred in female rats exposed to hexachlorocyclopentadiene. Suppurative inflammation of the nose as well as pigmentation of the respiratory mucosal epithelium occurred in mice exposed to hexachlorocyclopentadiene.

Keywords: *Toxicology, *Carcinogenesis, *Cyclopentadiene, Cancer, Rats, Mice, Inhalation administration, Mutagenicity tests, Respiratory tract diseases, Biological effects, Exposure, Dose-response relationships, Chemical analysis, Risk assessment, Tables(Data), *Cyclopentadiene/perchloro, CAS 77474, C-56-Graphlox, HEX, HCPD, HCCP, HCCPD.

PB94-214194/REB PC **A07/MF A02**
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Locating and Estimating Air Emissions from Sources of Methyl Ethyl Ketone. Final rept.
TRC Environmental Corp., Chapel Hill, NC.
Mar 94, 147p EPA/454/R-93/046
Contract EPA-68-D9-0173
See also PB90-142456. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

The purpose of this document is to assist Federal, State and local air pollution agencies and others who are interested in locating potential air emitters of methyl ethyl ketone (MEK) and making gross estimates of air emissions therefrom. Section 3.0 of this document briefly summarizes the physical and chemical characteristics of MEK, and provides an overview of its production and use. Section 4.0 of this document focuses on major production source categories that may discharge air emissions containing MEK. Section 5.0 discusses the uses of MEK as industrial feedstocks and major solvent uses, particularly paint and ink manufacturing, degreasing, and coating operations. Section 6.0 addresses residual emissions from industry and Section 7.0 describes emissions from industries which may produce MEK as a by-product of processes (e.g., burning of fuel oil).

Keywords: *Methyl ethyl ketone, *Air pollution sources, Air pollution monitoring, Emission factors, Paint industry, Adhesives, Surface coatings, Stationary sources, Point sources, Exhaust emissions, Byproducts, Chemical analysis, Chemical plants, Industrial plants, Sectoral analysis, Production, Manufacturing, Materials handling, Utilization, *Emission inventories, CAS 78-93-3.

PB94-214509/REB PC **A05/MF A01**
Environmental Protection Agency, Washington, DC.
Utility Environmental Impacts: Incentives and Opportunities for Policy Coordination in the New England Region. Final rept.
Massachusetts Dept. of Public Utilities, Boston. Electric Power Div.
J. G. Besser, S. W. Chamberlin, K. T. Dolan, G. A. Dunn, and R. H. Gelder. Jun 94, 80p
See also PB94-215803. Sponsored by Environmental Protection Agency, Washington, DC.

The report reviews the opportunities in the New England region for coordination of public utility commissions (PUC) policies that address the environmental impacts of electric utility resource decisions. The report identifies a number of critical areas where PUC coordination will bring significant economic and environmental benefits to the region as a whole, and recommends the formation of a Standing Committee of New England PUC representatives for coordinated analysis and policy development. Specific regional initiatives to be pursued by the Standing Committee are identified and reviewed, including policies to address utility plant emissions of greenhouse gases, compliance with the Clean Air Act Amendments of 1990, treatment of environmental externalities in utility planning and dispatch, and region-wide coordination of utility and environmental regulation.

Keywords: *New England, *Environmental impacts, *Regional cooperation, Air pollution control, Public utilities, Electric utilities, Electric power production, Fossil-fuel power plants, Energy policy, Environmental policy, Economic impact, Air pollution standards, Standards compliance, Pollution regulations, Clean Air Act, State programs, Coordination, Decision making, *Public utility commissions, Northeastern Region(United States).

PB94-214525/REB PC **A03/MF A01**
Pesticide Fact Sheet: Difenoconazole/Dividend (Trade Name) Fungicide.
Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.
3 Aug 94, 13p EPA/737/F-94/010

Adequate chemistry, toxicological, ecological effects, and environmental fate data have been submitted and reviewed to support the conditional registration of Difenoconazole for use as a seed treatment fungicide of wheat. The terms of the conditional registration will require Ciba-Geigy Corp. to submit Stability of the Technical Grade Active Ingredient (TGAI) to Metal Ions Study (Guideline Number (GLN) 63-13), Storage Stability of Difenoconazole in other Raw Agricultural Commodities (GLN 171-4(e)), and additional Wheat Field Residue Trials (GLN 171-4(k)).

Keywords: *Pesticides, *Registration, *Triazoles, Fungicides, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Difenoconazole, Use patterns, CAS 119446-68-3.

PB94-214657/REB PC **A08/MF A02**
EPA's Contaminated Sediment Management Strategy.
Environmental Protection Agency, Washington, DC. Office of Water.
Aug 94, 151p EPA/823/R-94/001

The Strategy describes the cross-program policy framework in which EPA intends to promote consideration and reduction of ecological and human health risks posed by sediment contamination. The goals of the Strategy are: (1) to develop consistent methodologies for assessing contaminated sediments; (2) to prevent ongoing contamination of sediments that may cause unacceptable ecological or human health risks; (3) to clean-up existing sediment contamination that causes significant effects on human health or the environment; and (4) to ensure that sediment dredging and the disposal of dredged material continue to be managed in an environmentally sound manner.

Keywords: *Sediments, *Environmental transport, *Water pollution effects, Toxic substances, Aquatic ecosystems, Sediment-water interfaces, Water pollution control, Water pollution abatement, Runoff, Path of pollutants, Watersheds, Public health, Risk assessment, Contaminants, Pollution regulations, Government policies, Environmental policy.

PB94-214665/REB PC **A22/MF A04**
International (Non-U.S.) Industrial Pollution Prevention: A Case Study Compendium.
Environmental Protection Agency, Washington, DC. Office of Water.
Aug 94, 512p EPA/820/R-94/005

The National Acid Precipitation Assessment Program concluded (NAPAP, 1991) that direct above ground impacts of acidic deposition at present levels are not expected in low-elevation forest systems, but detrimental effects on some high-elevation eastern forests appear likely. NAPAP also concluded that long-term changes in the chemistry of some sensitive soils are expected, but data were not available at the time to determine whether this would result in reduced forest health or how long it would take for such an effect to occur. The question of the importance of acidic deposition as a factor affecting forest health via the soil remained a significant research and policy issue. This report provides a critical review of the scientific literature dealing with the extent to which acidic deposition may be causing changes in soil chemical properties and the potential for such changes to affect forest trees. Particular attention was paid to large-scale research programs which addressed these issues directly.

Keywords: *Precipitation(Meteorology), *Acidification, *Acid deposition, *Forests, *Reviews, Soil properties, Soil chemistry, Nutrients, Environmental impacts, Forest trees, Growth, Tissues(Biology), Calcium, Aluminum, Concentration(Composition), Changes, Fir trees, Oak trees, Response, *Acid rain.

PB94-214673/REB PC **A05/MF A01**
Whole Effluent Toxicity (WET) Control Policy: Policy for the Development of Effluent Limitations in National Pollutant Discharge Elimination System Permits to Control Whole Effluent Toxicity for the Protection of Aquatic Life.
Environmental Protection Agency, Washington, DC. Office of Water.
Jul 94, 80p EPA/833/B-94/002

This policy is intended (1) to promote uniform, nationwide compliance with statutory and regulatory requirements for the control of WET, and (2) to assist permit writers in implementing these requirements. The water quality permitting regulations, as well as the statutory provisions restated in this policy document, are fully binding on EPA Regions as well as States authorized to administer the NPDES program. This policy also provides guidance to permit writers on implementation of the statutory and regulatory requirements for the control of WET. This policy addresses some specific areas where questions have arisen regarding the implementation of statutory and regulatory requirements. It does not address all areas where the regulatory agency will exercise judgment in the implementation of statutory and regulatory requirements.

Keywords: *Waste water disposal, *Toxicity, *Water pollution effects(Humans), Estuaries, Great Lakes, Environmental policy, Water quality standards, Pollution regulations, Standards compliance, Permits, Effluents, Discharge(Water), Water pollutants, Sectoral analysis, Industry, Public health, Risk assessment, Exposure, Requirements, WET(Whole Effluent Toxicity), National Pollutant Discharge Elimination System, National Estuary Protection Program.

PB94-214681/REB PC **A03/MF A01**
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Evaluation of Propylene Carbonate in Air Logistics Center (ALC) Depainting Operations. Project rept. Feb-Sep 93.
Foster Wheeler Enviresponse, Inc., Edison, NJ.
S. Rosenthal, and A. M. Hooper. Sep 94, 43p EPA/600/R-94/176
Contract EPA-68-C9-0033
Sponsored by Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

This report summarizes a two-phase, laboratory-scale screening study that evaluated solvent blends containing propylene carbonate (PC) as a potential replacement for methyl ethyl ketone (MEK) in aircraft radome depainting operations. The study was conducted at Oklahoma City Air Logistics Center (OC-ALC) at Tinker Air Force Base (TAFB). The first phase of this study screened the performance of three solvent blends provided by Texaco Chemical Company. These blends contained varying concentrations of PC, n-methyl pyrrolidone (NMP), dibasic ester (DBE), and other organic solvents. The performance of each blend was compared with that of MEK-both by the paint removal time and by a visual estimate of the amount of paint removed without any visible substrate damage (removal efficiency). Phase 2 test results revealed that PC Blend 2 performed favorably in comparison with MEK in removing paint from the fiberglass/epoxy (F/E) test panels and in subsequent paint adhesion tests, despite an indication of possible substrate damage.

Keywords: *Aircraft maintenance, *Paint removers, *Air pollution control, Methyl ethyl ketone, Environmental chemical substitutes, Solvents, Solvent properties, Alternatives, Comparison, Radomes, Performance evaluation, *Propylene carbonate, N-methylpyrrolidone, Dibasic esters, Depainting, Paint stripping, Oklahoma City Air Logistics Center, Tinker Air Force Base.

PB94-214772/REB PC **A11/MF A03**
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Experimental Investigation of PIC Formation during the Incineration of Recovered CFC-11.
Final rept. Jul 93-Jul 94.
Energy and Environmental Research Corp., Irvine, CA.
B. Springsteen, L. Ho, and G. Kryder. Sep 94, 238p
EPA/600/R-94/163
Contract EPA-68-CO-0094
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

The report gives results of an investigation of the formation of products of incomplete combustion (PICs) during 'recovered' trichlorofluoromethane (CFC-11) incineration. Tests involved burning the recovered CFC-11 in a propane gas flame. Combustion gas samples were taken and analyzed for volatile organic compounds as well as polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF). Test results confirm that incineration can be used to effectively destroy recovered CFC-11; CFC destruction efficiencies of greater than 99.9999 (six nines) were consistently demonstrated for CFC-11-to-propane molar ratios of 0.66-0.6. Additionally, low levels were detected when sampling downstream of the flue gas scrubber. Results of a secondary goal of the study, to determine the fate of chlorine (Cl) and fluroine (F), were inconclusive.

Keywords: *Combustion efficiency, *Incineration, *Air pollution sampling, Combustion products, Chemical analysis, Combustion kinetics, Incinerators, Chlorofluorocarbons, Polychlorinated dibenzodioxins, Polychlorinated dibenzofurans, Halohydrocarbons, Freons, Chlorine, Fluorine, Flue gases, Propane, Flames, Waste disposal, Tables(Data), *CFC-11, Trichlorofluoromethane.

PB94-214814/REB PC **A04/MF A01**
Microenvironmental Factors Related to Californians' Potential Exposure to Environmental Tobacco Smoke (ETS).
Environmental Protection Agency, Research Triangle Park, NC. Atmospheric Research and Exposure Assessment Lab.
J. P. Robinson, P. Switzer, and W. Ott. Aug 94, 55p
EPA/600/R-94/116
Report no. 3 from the California Activity Pattern Survey. See also PB94-130432. Prepared in cooperation with Stanford Univ., CA. Dept. of Statistics. and Maryland Univ., College Park. Dept. of Sociology.

Using the 1987-88 California Activity Pattern (CAP) Survey, the report examines various microenvironmental aspects of personal exposure to environmental tobacco smoke (ETS) that were not explored in earlier reports. These topics include: (1) predictors of those individuals with the highest ETS exposures, (2) daily activities and locations associated with higher and lower amounts of ETS exposure, with special emphasis on the workplace, (3) ETS exposure for persons in those locations with exposure to other sources (for example, gasoline, gas stoves, or chemicals at the workplace). From a multivariate analysis, the report concludes: (1) education remains a major demographic predictor of potential ETS exposure among individuals; (2) time spent working was a major and consistent correlate of exposure to ETS, while drinking at bars/lounges and eating out at restaurants also were significant correlates of ETS exposure; (3) respondents who reported the presence of dust particles at work also reported significantly higher ETS exposure and were exposed to other potential pollutant sources as well. These analysis generally confirm the important role of workplace factors in the public's exposure to ETS.

Keywords: *California, *Tobacco smoke, *Environmental exposure, Air pollution monitoring, Air pollution sources, Cigarette smoking, Emission factors, Human activities, Indoor air pollution, Demographic analysis, Particulates, Public health, Risk assessment, Multivariate analysis, Microenvironments, Activity patterns.

PB94-214822/REB PC **A19/MF A04**
Workshop on the Use of Available Data and Methods for Assessing the Ecological Risks of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin to Aquatic Life and Associated Wildlife. Held in Minneapolis, Minnesota on September 14-15, 1993.
Environmental Protection Agency, Washington, DC. Risk Assessment Forum.
May 94, 444p EPA/630/R-94/002, RAF-010
See also PB93-202828.

The Interim Report compiles and critically reviews current scientific literature concerning toxicity and exposure data for (TCDD) ecological risks to aquatic and wildlife species. This report summarizes the discussions of a peer panel workshop that evaluated the utility of the information in the Interim Report for future ecological risk assessments. In addition to the Interim Report, workshop participants used a hypothetical scenario and the EPA report Framework for Ecological Risk Assessment to identify significant issues, discuss major uncertainties and recommend research needs for future assessments. The focus of the workshop was on the problem formulation or scoping phase of the ecological risk assessment process. Participants evaluated a 'conceptual model' from the hypothetical scenario and provided comments and suggestions on the transport, fate, and ecological effects of TCDD and related compounds.

Keywords: *Tetrachlorodibenzodioxin, *Water pollution effects(Plants), *Water pollution effects(Animals), *Meetings, Toxicity, Aquatic ecosystems, Fresh water biology, Marine biology, Fishes, Environmental transport, Environmental exposure, Biological accumulation, Bioassay, Path of pollutants, Dose-response relationships, Risk assessment, Dioxins, Chlorinated hydrocarbons, Environmental persistence, Environmental fate.

PB94-215803/REB PC **A08/MF A02**
Utility Environmental Impacts: Incentives and Opportunities for Policy Coordination in the New England Region. Appendix 2. Report of Science Applications International Corporation. Project on Regional Coordination and Environmental Externalities. Final rept.
Science Applications International Corp., Dublin, OH.
P. A. Centolella. Nov 93, 159p
See also PB94-214509. Prepared in cooperation with Massachusetts Dept. of Public Utilities, Boston. Electric Power Div.

The report is an appendix to the main report, Utility Environmental Impacts: Incentives and Opportunities for Policy Coordination in the New England Region (PB94-214509). This Appendix provides a specific reference volume for, and analysis of, the jurisdiction, responsibilities, organizational structures, and interrelationships of the public utility, environmental, and facility siting agencies in each of the six New England states. It is designed to provide regulators and those affected by regulation a single document that summarizes the regulatory statutes, policies, and practices that address the major environmental impacts of electric utilities. The report also includes a description of the organizational structure and a detailed listing of contacts for each agency.

Keywords: *New England, *Environmental impacts, *Regional cooperation, Air pollution control, Public utilities, Electric utilities, Electric power production, Fossil-fuel power plants, Energy policy, Environmental policy, Economic impact, Air pollution standards, Standards compliance, Pollution regulations, Clean Air Act, State programs, Coordination, Decision making, *Public utility commissions, Northeastern Region(United States).

PB94-216967/REB PC **A07**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Urban BMP's: A Stormwater Control Demonstration Project.
Greenville, SC.
D. R. Belk, W. B. Kerr, and E. L. Anderson. Apr 92, 143p APES-92-03
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

Urban nonpoint source pollution is a major water quality problem in the Pamlico-Tar River watershed. The purpose of this project was to plan, construct, and maintain a 1.75-acre, 500,000 cubic foot stormwater detention pond. The facility will serve as a best management practice for removing nutrients and heavy metals from stormwater runoff within a 200-acre watershed that is representative of typical urban land uses. This project also provided a case study of the experiences of a municipal staff in the development, planning, and implementation of a stormwater BMP. This report discusses various administrative and logistical problems that were encountered during site selection, proposal development, and project start-up. An emphasis on interdepartmental and interagency cooperation resulted in the successful design and construction of the BMP. Project area descriptions and specifications are provided in detail.

Keywords: *Urban runoff, *Nonpoint sources, *Water pollution control, Storm water runoff, Urban drainage, Tar River, Nutrients, Environmental transport, Dredging, Detention reservoirs, Settling basins, Environmental engineering, Performance evaluation, *Best management practices, Greenville(North Carolina), Albemarle-Pamlico Estuarine Study, National Estuary Program.

PB94-217056/REB PC **A04/MF A01**
Surface Disposal of Sewage Sludge: A Guide for Owners/Operators of Surface Disposal Facilities on the Monitoring, Recordkeeping, and Reporting Requirements of the Federal Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503.
Environmental Protection Agency, Washington, DC. Office of Water.
May 94, 52p EPA/831/B-93/002C
See also PB94-102415.

The document was developed for owners/operators of surface disposal sites. It provides detailed guidance on the monitoring, recordkeeping, and reporting requirements for surface disposal. The document is intended to assist owners/operators in complying with Part 503 by explaining requirements and providing examples of appropriate information.

Keywords: *Sewage sludge, *Sludge disposal, *Ground disposal, Pollution regulations, Standards compliance, Reporting requirements, Clean Water Act, Land pollution abatement, Environmental protection, Environmental monitoring, Administrative procedures, Recordkeeping.

PB94-217080/REB PC **A05/MF A01**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Fringe Wetlands in Albemarle and Pamlico Sounds: Landscape Position, Fringe Swamp Structure, and Response to Rising Sea Level.
Final rept.
East Carolina Univ., Greenville, NC. Dept. of Biology.
M. M. Brinson. Nov 89, 96p APES-88-14
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Washington, DC.

The forested wetlands that border Albemarle Sound and its tributaries are largely undescribed and their ecological importance is not well known. The purpose of this study was to assess the locations, quality, and species composition of wetland forests in a zone that is influenced by water level fluctuations in the sound. The zone appears to be up to 200 meters wide. Surveys showed changes in tree species from shoreline to the swamp interior. The forest actually begins in the water beyond the shoreline where cypress trees were stranded as a result of erosion and differential loss of other species. Moving into the forest, a slightly elevated storm levee is first encountered before the sequence eventually grades back into the lower-lying swamps of black gum and red maple. Information about these wetlands is important from several perspectives. First, they represent a resource of unquantified abundance whose shoreline position makes them potentially important habitat for fish and wildlife.

Keywords: *Habitats, *Forest surveys, *Wetlands, *Albemarle Sound, *Pamlico Sound, Forest trees, Swamps, Maple trees, Vegetation, Wildlife, Fishes, Soil erosion, Aquatic ecosystems, Sedimentation, Water levels, Disturbances, Hydrology, North Carolina, Coasts, Tables(Data), Topography, Tributaries, Cypress trees.

PB94-217205/REB PC **A99**/MF **A06**
EPA National Publications Catalog. First Edition.
Environmental Protection Agency, Washington, DC. Office of Administration and Resources Management.
Jun 94, 694p EPA/200/B-94/001
Also available from Supt. of Docs.

The intent of the catalog is to improve access to the wealth of information available in the Agency. The approximately 4,500 titles represent data available from various EPA information services at EPA Headquarters, Regions, and Laboratories. The Catalog is divided into four sections: Sponsoring Office, Title, EPA Number, and Subject.

Keywords: *US EPA, *Catalogs(Publications), *Information, *Research and development, Environmental protection, Pollution control, Research projects, Environmental legislation, Regulations, Technology transfer.

PB94-217452/REB PC **A11**/MF **A03**
Safe Drinking Water Act Source Book: Reauthorization Overview.
Environmental Protection Agency, Washington, DC. Office of Water.
Feb 94, 246p EPA/810/S-94/001

This book contains background information on a number of issues central to the Safe Drinking Water Act reauthorization. The book contains a state-by-state analysis of the Clinton Administration's proposed State Revolving Fund, EPA's Comprehensive Report to Congress, and a side-by-side comparison of drinking Water legislation pending in the House of Representatives.

Keywords: *Water quality management, *Drinking water, *Safe Drinking Water Act, US EPA, Financing, States(United States), Legislation, Water pollution, Government policies, State Revolving Fund, Safe Drinking Water Act Reauthorization.

PB94-217510/REB PC **A10**/MF **A03**
Water-Quality Data from Continuously Monitored Sites in the Pamlico and Neuse River Estuaries, North Carolina, 1990-91. Open file rept. (Final).
Geological Survey, Raleigh, NC.
R. G. Garrett. 1992, 208p USGS/OFR-92/110
Also pub. as Albemarle-Pamlico Estuarine Study, Raleigh, NC. rept. no. REPT-91-10. See also PB94-156817 and PB94-203858. Prepared in cooperation with Albemarle-Pamlico Estuarine Study, Raleigh, NC.

This report is the second of a series of reports summarizing data collected from the Pamlico and Neuse River estuaries. The purpose of this report is to provide a summary of the continuously monitored water-quality data obtained in the Pamlico River and the Neuse River estuaries. This report covers the period from October 1990 through September 1991, which is the end of the second full water year of data collection. Water-quality data were measured at 15-minute intervals at six sites in the Pamlico River estuary and at five sites in the Neuse River estuary. Measurements include near-surface and near-bottom specific conductance; near-surface water temperature; and near-surface, mid-depth, and near-bottom dissolved-oxygen concentrations and percent saturation. Specific-conductance data were converted to and reported as salinity values. Basic statistics were used to present selected data as box plots, and instantaneous data are summarized as daily mean values in tables and graphs.

Keywords: *North Carolina, *Water quality data, *Environmental monitoring, Estuaries, Pamlico River, Neuse River, Statistical analysis, Surface properties, Water temperature, Salinity, Depth, Dissolved oxygen, Tables(Data), Graphs(Charts).

PB94-218625/REB PC **A06**/MF **A01**
Albemarle-Pamlico Estuarine Study, Raleigh, NC.
Institutional Enhancement and Public Involvement Program for Hampton Roads Virginia. Final Report. Fiscal Years 1989-90 - 1992-93.
Hampton Roads Planning District Commission, VA.
Feb 93, 106p APES-92-18
Contracts APES-C-1826, APES-C-14006
Sponsored by Albemarle-Pamlico Estuarine Study, Raleigh, NC. and Environmental Protection Agency, Washington, DC.

The Chowan, Northwest, and North Landing Rivers and Back Bay are major tributaries to Currituck and Albemarle Sounds. All are located in or flow through the southern portion of the Hampton Roads region of Virginia. Land use and other activities in these Basins affect environmental quality in the Sounds. Concurrently, management programs developed through the Albemarle-Pamlico Estuarine Study (APES) have the potential to affect future development in the Virginia portion of these Basins. This project was designed to provide an active role in the APES Program for localities and citizens in Hampton Roads, Virginia; to provide for information exchange between North Carolina and Virginia researchers and governmental agencies; and to educate Virginians about the Albemarle-Pamlico Estuarine System, its water quality and natural resource problems, developing solutions to them and the role that they could play in addressing those problems.

Keywords: *Water quality management, *Environment management, *Water pollution, *Information transfer, *Estuaries, Albemarle Sound, North Carolina, Virginia, Chesapeake Bay, Public information, *Albemarle-Pamlico Estuarine Study, Hampton Roads(Virginia).

PB94-218716/REB PC **A03**/MF **A01**
Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.
Examination of Alternative Fishing Devices for the Estuarine Shrimp and Crab Trawl Fisheries. Final rept.
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh.
S. McKenna, and A. H. Clark. Apr 93, 45p APES-93-11
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Estuary Program.

The estuarine trawl fishery in North Carolina is composed of two harvesting sectors, shrimp and crab trawls. The incidental capture of juvenile finfish and shellfish in conjunction with these fisheries has long been a concern to managers, fishermen, and the public alike. The magnitude of the bycatch is highly variable, influenced by, time, area, depth, and bottom and gear characteristics. Unfortunately, adequate fishery-independent and dependent data are unavailable to quantitatively address this problem. There is general agreement among all concerned that methods that reduce bycatch through manipulation of existing gears or by developing new gears that are species specific need to be examined. The objectives of this study were to: (1) test two tailbag sizes (4 in and 4.5 in) and a belly trawl in crab trawls; (2) develop and test various shrimp pot designs; and (3) examine the feasibility of using cast nets to harvest brown shrimp in the Pamlico Sound complex.

Keywords: *Fishing gear, *Fisheries, *Shrimps, *Crabs, *Estuaries, Alternatives, Trawling, North Carolina, Fish harvest, Design criteria, Performance evaluation, Pamlico Sound, *Albemarle-Pamlico Estuarine Study, *Bycatch.

PB94-218724/REB PC **A05**/MF **A01**
Albemarle-Pamlico Estuarine Study Synoptic Survey Data Review. Final rept.
North Carolina Dept. of Environment, Health, and Natural Resources, Raleigh.
25 Jul 89, 78p APES-90-03
See also PB94-184371 and PB94-187952.

The Albemarle-Pamlico Estuarine Study (A/P Study) was initiated in 1987 under the administration of the United States Environmental Protection Agency (EPA), with funding through the National Estuarine Program (NEP). The goals of the A/P Study include determining the environmental problems facing North Carolina's estuarine areas and protection and management of those estuaries to provide for recreational, industrial, and commercial uses. The baseline water quality monitoring plan was developed by the Division of Environment Management (DEM) with assistance from DMF and USGS. Using DEM's existing ambient monitoring program, 20 new water quality stations were added to the 74 existing ambient stations in the A/P Study area. Other components of the baseline monitoring plan included fish tissue analysis at 26 stations, sediment oxygen demand (SOD) sampling in critical areas, and a synoptic water quality study. Implementation of the baseline monitoring plan began in October 1988. This report presents the results of the synoptic water quality study.

Keywords: *Water quality management, *Water pollution sampling, *Baseline measurements, *Estuaries, Albemarle Sound, Physical properties, Chemical properties, Nutrients, Aquatic biology, Pamlico River, Pamlico Sound, Rivers, *Albemarle-Pamlico Estuarine Study.

PB94-218955/REB PC **A05**/MF **A01**
Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.
Compendium of Watershed-Scale Models for TMDL Development.
Tetra Tech, Inc., Fairfax, VA.
L. L. Shoemaker, M. Lahlou, S. Thoms, R. Xue, and J. Wright. Jun 92, 86p EPA/841/R-94/002
Contract EPA-68-C9-0013
See also PB92-231620. Sponsored by Environmental Protection Agency, Washington, DC. Office of Wetlands, Oceans and Watersheds.

The process for determining specific pollution reductions needed to attain State water quality standards under the Clean Water Act is set out in Section 303(d) of that Act and involves the determination of Total Maximum Daily Loads (TMDLs). As interpreted in EPA regulations and guidance, the TMDL process can be used to address large geographic areas such as river basins and provides water quality managers with an analytical method to address more complex water pollution problems, such as nonpoint sources, and to adopt a more integrated approach to water quality management. This compendium, developed in response to recommendations made at the Workshop on the Water Quality-based Approach for Point Source and Nonpoint Source Controls held in Chicago on June 26-28, 1991, has identified and summarized the most widely used (as well as some of the more obscure) watershed-scale models that can facilitate the TMDL process. It is intended to help water quality managers and other potential users decide which model best suits their needs and available resources.

Keywords: *Water quality management, *River basins, *Hydrology basins, Water flow, Base flow, Drainage, Flow models, Model studies, Watersheds, Nonpoint sources, Land use, Environmental transport, Runoff, Water pollution control, Water quality standards, Clean Water Act, Mathematical models, State law, State government, *TMDL(Total Maximum Daily Load), *Total Maximum Daily Load.

PB94-218963/REB PC **A03**/MF **A01**
Sampling for Lead in Drinking Water in Nursery Schools and Day Care Facilities.
Environmental Protection Agency, Washington, DC. Office of Water.
Apr 94, 22p EPA/812/B-94/003
See also PB94-178050, PB93-101079 and PB92-137439.

This booklet provides simple, step-by-step instructions for sampling drinking water for lead and for selecting remedies when contamination problems are found. The document is intended to assist owners and operators of small nursery schools and day care facilities. Exposure to lead is a significant health concern, especially for young children and infants whose growing bodies tend to absorb more lead than the average adult. This booklet provides advice on how to proceed to test for lead and implement remedies if problems are found.

Keywords: *Lead(Metal), *Drinking water, *Water pollution sampling, *Day care centers, Health hazards, Ingestion(Biology), Preschool children, Potable water, Water quality, Water pollution sources, Water pipes, Plumbing, *Nursery schools.

PB94-219029/REB PC **A02**/MF **A01**
Pesticide Fact Sheet: Hexaflumuron.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
10 Mar 94, 7p EPA/737/F-94/012

This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after registration of a new chemical.

Keywords: *Pesticides, *Insecticides, *Registration, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Hexaflumuron, Benzoyl phenylurea, Insect growth regulators, Use patterns, CAS 86479-06-03.

PB94-219037/REB PC A04/MF A01
Providing Waivers from NPDES Permit Compliance Schedules for Industrial Pollution Prevention Technology. The Industrial Pollution Prevention Project (IP3) Analysis of Sections 301(k) and 307(e) of the Clean Water Act.
Environmental Protection Agency, Washington, DC. Office of Water.
May 94, 60p EPA/82O/R-94/003

The Office of Water has initiated an Industrial Pollution Prevention Project (IP3) to look at how best to promote multi-media pollution prevention in its current and future regulatory activities. One facet of the IP3 is to explore the degree to which the Section 301(k) innovation waiver provision under the Clean Water Act (CWA) has been, or could become, an effective vehicle for promoting the development and implementation of innovative pollution prevention technologies. While 301(k) variance provision for direct dischargers expired in March 1991, a parallel provision for indirect dischargers, 307(e), is still in effect. Further, the 301(k) provision could be reactivated by Congress during the current CWA reauthorization.

Keywords: *Clean Water Act, *Waiver, *Water pollution standards, Permits, Standards compliance, Water pollution control, Water pollution abatement, Industrial wastes, Waste water treatment, Technology innovation, Requirements, Pollution regulations, Legislation, Law enforcement, NPDES(National Pollutant Discharge Elimination System).

PB94-501574/REB CP D02
Data Quality Objectives (DQO) Decision Error Feasibility Trials (DEFT) (for Microcomputers). Software.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 94, 1 diskette* EPA/SW/DK-94/088
Files are compressed.
The software is on one 3 1/2 inch DOS diskette, 720K double density. File format: Executable. Documentation included; may be ordered separately as PB94-963222.

The software is a tool to evaluate the feasibility of the Data Quality Objectives (DQOs) based on cost and sample size. By entering the outputs from the DQO process, the software will compute sample sizes for several basic statistical sampling designs. This way you, the decision maker, can decide whether your decision error rates are feasible before a statistician, or someone familiar with statistical design, begins to optimize the sampling design. At the current time, the software only compares a mean against a fixed action level. In more advanced versions, software will be expanded to consider other sampling designs and other parameters of interest. This software can NOT be used to develop the optimal sampling design. The sampling sizes that are computed can only be used for comparison purposes. They are not meant to be used for the final decision.

Keywords: *Software, *Superfund, *Pollution sampling, *Statistical analysis, Hazardous materials, Ground water, Water pollution, Soil contamination, Land pollution, Quality assurance, Comparative analysis, Diskettes, *Data Quality Objectives, DEFT(Decision Error Feasibility Trials).

PB94-501673/REB CP D02
EPANET Version 1.1 (3 1/2 inch - DOS) (for Microcomputers). Software.
Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.
Jan 94, 1 diskette* EPA/SW/DK-94/118
The software is on one 3 1/2 inch DOS diskette, 1.44M high density. File format: ASCII text. Documentation included; may be ordered separately as PB94-165610.

This software has a program that performs extended period simulation of hydraulic and water quality behavior within water distribution systems. It tracks the flow of water in each pipe, the pressure at each pipe junction, the height of water in each storage tank, and the concentration of a substance throughout a distribution system during a multi-time period simulation. In addition to substance concentrations, water age and source tracing can also be performed. The water quality module of EPANET is equipped to model such phenomena as reactions within the bulk flow, reactions at the pipe wall, and mass transport between the bulk flow and the pipe wall. The documentation describes how to use the EPANET program on a personal computer under both DOS and Microsoft Windows. Under Windows the user is able to edit EPANET input files, run a simulation, display the results on a color coded map of the distribution system and generate additional tabular and graphical views of these results.

Keywords: *Software, *Water distribution, *Drinking water, *Distribution systems, Water pipes, Water tanks, Water systems, Water flow, Hydraulics, Water pressure, Water sources, Water quality, Potable water, Computerized simulation, Diskettes, EPANET computer program.

PB94-501764/REB CP D02
Solvent Alternatives Guide (SAGE), Version 2.0 (for Microcomputers). Software.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
May 94, 1 diskette EPA/SW/DK-94/101
System: DOS 5.0 or greater operating system, 4MB. Printer is recommended if full report is desired. Compressed files; contains PKUNZIP executable files.
The software is on one 5 1/2 inch DOS diskette, 1.2M high density. Documentation included; may be ordered separately as PB94-180585.

SAGE is an expert system for selecting alternative materials and processes for cleaning of metals, electronics, plastics, and stripping of paint. SAGE recommends solvent replacements in cleaning and degreasing operations. It leads the user through a question-and-answer session. The user's responses allow the system to develop a list of alternative chemistries and processes. The user may then review brief descriptions of the alternatives on the computer screen. If any of the alternatives are of interest, the user may request SAGE to generate a detailed report for each. The report includes general information, safety/environmental concerns, industrial case studies for the selected alternative, and information on state technical assistance programs in the user's geographical location that can provide additional information.

Keywords: *Software, *Solvents, *Alternatives, Material substitution, Environmental chemical substitutes, Pollution abatement, Surface cleaning, Degreasing, Strippers, Paint removers, Stripping(Paints), Chemical compounds, Expert systems, Diskettes, SAGE expert system.

PB94-501780/REB CP D03
Second by Second Exhaust Emissions Data Recorded during Federal Test Procedures UDDS Runs (for Microcomputers). Data file.
Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.
Apr 94, 4 diskettes* EPA/DF/DK-94/113
Disk 1 through 3 contains data. Disk 4 contains Lotus 123 Spreadsheet. Files are compressed.
The datafile is on four 3 1/2 inch DOS diskettes, 1.44M high density. File format: ASCII text. Documentation included; may be ordered separately as PB94-180494.

Second by second emission data for 80 FTP (Federal Test Procedures) UDDS Runs on 13 vehicles are included. Product gives the results of analyses using real-time dynamometer test emissions data from 13 passenger cars to examine variations in emissions during different speeds or modes of travel. The resulting data provided a way to separately identify idle, cruise, acceleration, and deceleration emissions for examining how emissions differ by vehicle speed during the cruise mode. To select a set of vehicles for the study, the hydrocarbon (HC)/time relationship was established for several vehicles operating on summergrade fuel. Federal Test Procedure results were then produced and examined to identify normal emitters (clean vehicles). After these vehicles were selected, their second-by-second emission characteristics were analyzed. The FTP runs for cold start, hot start, and hot stabilized emissions (Bags 1, 2, and 3 of the FTP) were performed for each of the four driving cycles-acceleration, deceleration, idling, and cruise-and the fraction of overall emissions contributed by each mode was computed for the warmed-up portion of the driving cycle. A protocol was then developed for review of the FTP real-time data. Study results showed significant emissions differences relating to the travel mode.

Keywords: *Exhaust emissions, *Automobile exhaust, *Software, *Data bases, Diskettes, Federal test procedure, Dynamometers.

PB94-502200/REB CP D02
Preliminary Ranking Evaluation Score (PREscore), Version 3.0, (3 1/2 inch, 1.44M) (for Microcomputers). Model-Simulation.
Environmental Protection Agency, Washington, DC. Hazardous Site Evaluation Div.
Aug 94, 1 diskette* EPA/DF/DK-94/116
System: MS DOS 3.1 operating system, 384K. Language: Compiled 'C'. Contains executable files. Also available in 5 1/4 inch, order as PB94-504560. Supersedes PB93-505915. See also PB94-504107, PB94-503018, PB93-592571, PB93-500742, and PB90-591791.
The software is on one 3 1/2 inch DOS diskette, 1.44M high density. Documentation included; may be ordered separately as PB93-192698.

The PREscore computer program has been developed to assist Superfund site assessment investigations in Hazard Ranking System (HRS) site scoring. The HRS is used to assess the relative threat associated with actual or potential releases of hazardous substances to ground water, surface water, soil, and air. The HRS is the primary means by which EPA evaluates sites for the National Priorities List (NPL), the list of the hazardous waste sites that are eligible for remedial funding under the Superfund program. PREscore is designed to be user-friendly, operating via hierarchically-dependent spreadsheets that allow data to be entered quickly and efficiently. Significant program features include: Instant score calculation and continuous score display; Multiple site-scenario testing capability; Extensive Help screens; Comprehensive documentation ability; PREscore fully automates the HRS, allowing for the entry and evaluation of all types of site-related information including sampling data, waste quantities and waste characteristics, physical parameters of the site, population data, and administrative information. In addition, PREscore contains HRS-related hazardous substance information derived from the Agency's Superfund Chemical Data Matrix (SCDM), which includes substance characteristics such as toxicity and persistence, and concentration benchmarks for the substances commonly encountered at Superfund sites (Currently over 300 substances). PREscore is accompanied by PREprint, a program that produces an extensive documentation record for sites evaluated by PREscore. PREscore requires no specialized computer experience and has no additional software requirements. However, PREscore does require the user to be familiar with the HRS. PREscore Version 3.0 updates the previous PREscore versions 2.0 and 1.1 with program modifications and information on hazardous contaminants from the June 1994 Superfund Chemical Data Matrix.

Keywords: *Software, *Models-simulation, *Superfund, Hazardous materials, Waste disposal, Remedial action, Site surveys, Environmental impact assessments, Land pollution, Water pollution, Air pollution, Diskettes, PREscore computer model, HRS(Hazard Ranking System), NPL(National Priorities List), SCDM(Superfund Chemical Data Matrix).

PB94-504131/REB CP T02
Emergency Response Notification System (ERNS), 1990. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1990, mag tape* EPA/DF/MT-94/105
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504198 (1988), PB94-506206 (1989), PB94-504149 (1991), PB94-504156 (1992), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United

States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504149/REB CP **T02**
Emergency Response Notification System (ERNS), 1991. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1991, mag tape* EPA/DF/MT-94/108
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504198 (1988), PB94-504206 (1989), PB94-504131 (1990), PB94-504156 (1992), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

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Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504156/REB CP **T02**
Emergency Response Notification System (ERNS), 1992. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1992, mag tape* EPA/DF/MT-94/109
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504198 (1988), PB94-504206 (1989), PB94-504131 (1990), PB94-504149 (1991), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504164/REB CP **T02**
Emergency Response Notification System (ERNS), 1993. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1993, mag tape* EPA/DF/MT-94/110
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504131 (1990), PB94-504149 (1991), and PB94-504156 (1992).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504180/REB CP **T02**
Emergency Response Notification System (ERNS), 1987. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1987, mag tape* EPA/DF/MT-94/105
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504198 (1988), PB94-504206 (1989), PB94-504131 (1990), PB94-504149 (1991), PB94-504156 (1992), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504198/REB CP **T02**
Emergency Response Notification System (ERNS), 1988. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1988, mag tape* EPA/DF/MT-94/106
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504206 (1989), PB94-504131 (1990), PB94-504149 (1991), PB94-504156 (1992), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504206/REB CP **T02**
Emergency Response Notification System (ERNS), 1989. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1989, mag tape* EPA/DF/MT-94/107
This product contains text only. Customers must provide their own search and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504149 (1988), PB94-504131 (1990), PB94-504149 (1991), PB94-504156 (1992), and PB94-504164 (1993).
Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-504230/REB CD-ROM $45.00
Toxic Release Inventory (TRI), 1987-1992 (on CD-ROM). Data file.
Environmental Protection Agency, Washington, DC. Information Management Div.
1992, CD-ROM* EPA/DF/CD-94/119
System requires 640K RAM (with 430-480K RAM available for fielded data), Hard Disk, MS-DOS or PC-DOS version 3.3 or higher, CD-ROM drive, color or monochrome monitor and a printer. Includes user instructions. Supersedes PB93-500742. See also PB92-501816 (mag tape), PB91-507509 (mag tape), PB91-508572 (DK), and PB91-509109 (DK).
The datafile is on one 4.72 inch disc. Data format: ISO 9660.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as Title III) of the Superfund Amendments and Reauthorization Act of 1986 (Public Law 99-499) requires EPA to establish a national inventory of toxic chemical emissions from certain facilities. The final Toxic Chemical Release Form R and regulations for the 1987 reporting year were published in the Federal Register on February 16, 1988 (53 FR 4500-4554). The list of toxic chemicals subject to reporting consisted initially of chemicals listed for similar reporting purposes by the States of New Jersey and Maryland. There are over 300 chemicals and categories on these lists. The reporting requirement applies to owners and operators of facilities that have 10 or more full-time employees, that are in Standard Industrial Classification (SIC) codes 20 through 39 (i.e., manufacturing facilities) and that manufacture (including importing), process or otherwise use a listed toxic chemical in excess of specified threshold quantities. The following information is required on Form R: the name, location and type of business; off-site locations to which the facility transfers toxic chemicals in waste; whether the chemical is manufactured (including importation), processed, or other-

wise used and the general categories of use of the chemical; an estimate (in ranges) of the maximum amounts of the toxic chemical present at the facility at any time during the preceding year; quantity of the chemical entering each medium-air, land, and water-annually; waste treatment/disposal methods and efficiency of methods for each waste stream; optional information on waste minimization; and a certification by a senior facility official that the report is complete and accurate. The law mandates that the data be made publicly available through a computer database. The online TRI file should appeal to a broad based user audience including industry, state and local environmental agencies, emergency planning committees, the Federal Government and other regulatory groups. Another important user group is likely to be concerned citizens who, on their own or through public interest groups and public libraries, can use TRI to ask questions about chemical releases in their communities.

Keywords: *Data file, *Chemical compounds, *Toxic substances, *Waste management, Land pollution, Air pollution, Water pollution, Manufacturing, Industrial plants, Emergency plans, Requirements, Public information, Waste disposal, Waste treatment, Pollution regulations, CD-ROM.

PB94-504255/REB CP D02
Organic Contract Compliance Screening System (OCCSS) Software (OLM01.8 Version 7) (for Microcomputers). Software.
Environmental Protection Agency, Washington, DC.
Jan 94, 1 diskette* EPA/SW/DK-94/012
System: MS DOS Version 3.3 operating system. Language: Base SAS. 2 MB of RAM with memory over 640K configured as expanded memory, hard disk with at least 10 MB of available space, printer with wide carriage or ability to compress print. This application requires a minimum of 585K of base memory. Supersedes PB94-501335. See also PB94-501467.
The software is on one 5 1/4 inch DOS diskette, 1.2M high density. File format: Executable code. Files are compressed. Documentation included; may be ordered separately as PB92-169564.

OCCSS software is a version of a mainframe-based application developed for the U.S. Environmental Protection Agency's National Contract Laboratory Program (CLP). OCCSS is designed to automate the determination of contractural compliance and completeness of data submitted to the EPA under the Routine Analytical Services (RAS) programs of CERCLA (Comprehensive Emergency Response Clean-up and Liability Act). In order to remain consistent with the mainframe system, this PC version of OCCSS is written in SAS, and requires that SAS/PC be installed on the host PC. It will load analytical data from diskettes into SAS file format, perform technical edits on data, produce technical defect and summary reports, and reproduce forms which contain defects. In addition, OCCSS includes software to assist in identifying these critical structural defects in the data format, to assist in identifying these for correction prior to performing technical edits.

Keywords: *Software, *Organic compounds, *Waste management, *Contract management, Analytical chemistry, Superfund, Standards compliance, Hazardous materials, Data base management, Data compilation, US EPA, Diskettes, *OCCSS(Organic Contract Compliance Screening System), *Organic Contract Compliance Screening System, Comprehensive Environmental Response Compensation and Liability Act, National Contract Laboratory Program.

PB94-504388/REB CP D02
Manual of Instructional Problems for the U.S.G.S. MODFLOW Model (for Microcomputers). Data file.
Robert S. Kerr Environmental Research Lab., Ada, OK.
1993, 3 diskettes EPA/DF/DK-94/114
This product contains text only. Customers must provide their own search and retrieval software.
The datafile is on three 5 1/4 inch DOS diskettes, 1.2M high density. Documentation included; may be ordered separately as PB94-189941.

The manual is a practical self study guide illustrating the application of the USGS modular ground-water flow model, MODFLOW. It was developed as a text for modeling and ground-water hydrology courses and as a self study guide to aid regulators, modelers, and educators in learning MODFLOW. The information in the manual should be of interest to both the beginner and advanced modeler for hands-on experience with the practical application of MODFLOW. In addition, the problems in the manual can be used to verify the correct installation of the MODFLOW code on a particular computer system as a benchmark for the verification of other flow models. The text introduces each problem, describes the available input data, outlines the output, and discusses the results. Each problem is supported by several figures and tables to illustrate and clarify the model scenario. The diskettes contain input and output data sets for each problem. A copy of MODFLOW is not included in the manual. It is assumed the user has obtained a copy of MODFLOW and has the necessary computer hardware to execute the program.

Keywords: *Data file, *Ground water, *Water flow, Groundwater movement, Base flow, Hydrology, User manuals, Flow models, Computer program verification, Error analysis, Installation, Input/Output routines, Parametric analysis, Computerized simulation, Diskettes, *MODFLOW computer model, *User guides.

PB94-504560/REB CP D02
Preliminary Ranking Evaluation Score (PREscore), Version 3.0, (5 1/4 inch, 1.2M) (for Microcomputers). Model-Simulation.
Environmental Protection Agency, Washington, DC. Hazardous Site Evaluation Div.
Aug 94, 1 diskette* EPA/DF/DK-94/117
System: MS DOS 3.1 operating system, 384K. Language: Compiled 'C'. Contains executable files. Also available in 3 1/2 inch, order as PB94-502200. See also PB94-504107, PB94-503018, PB93-592571, PB93-500742, and PB90-591791.
The software is on one 5 1/4 inch DOS diskette, 1.44M high density. Documentation included; may be ordered separately as PB93-192698.

The PREscore computer program has been developed to assist Superfund site assessment investigations in Hazard Ranking System (HRS) site scoring. The HRS is used to assess the relative threat associated with actual or potential releases of hazardous substances to ground water, surface water, soil, and air. The HRS is the primary means by which EPA evaluates sites for the National Priorities List (NPL), the list of the hazardous waste sites that are eligible for remedial funding under the Superfund program. PREscore is designed to be user-friendly, operating via hierarchically-dependent spreadsheets that allow data to be entered quickly and efficiently. Significant program features include: Instant score calculation and continuous score display; Multiple site-scenario testing capability; Extensive Help screens; Comprehensive documentation ability; PREscore fully automates the HRS, allowing for the entry and evaluation of all types of site-related information including sampling data, waste quantities and waste characteristics, physical parameters of the site, population data, and administrative information. In addition, PREscore contains HRS-related hazardous substance information derived from the Agency's Superfund Chemical Data Matrix (SCDM), which includes substance characteristics such as toxicity and persistence, and concentration benchmarks for the substances commonly encountered at Superfund sites (Currently over 300 substances). PREscore is accompanied by PREprint, a program that produces an extensive documentation record for sites evaluated by PREscore. PREscore requires no specialized computer experience and has no additional software requirements. However, PREscore does require the user to be familiar with the HRS. PREscore Version 3.0 updates the previous PREscore versions 2.0 and 1.1 with program modifications and information on hazardous contaminants from the June 1994 Superfund Chemical Data Matrix.

Keywords: *Software, *Models-simulation, *Superfund, Hazardous materials, Waste disposal, Remedial action, Site surveys, Environmental impact assessments, Land pollution, Water pollution, Air pollution, Diskettes, PREscore computer model, HRS(Hazard Ranking System), NPL(National Priorities List), SCDM(Superfund Chemical Data Matrix).

PB94-593350/REB Subscription
Emergency Response Notification System (ERNS), Cumulative 1994. Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, mag tape* EPA/DF/MT-94/105
This product contains text only. Customers must provide their own seach and retrieval software. System: VMS V5.5-2 operating system. See also PB94-504180 (1987), PB94-504198 (1988), PB94-504206 (1989), PB94-504131 (1990), PB94-504149 (1991), PB94-504156 (1992), and PB94-504164 (1993).
Available on subscription, U.S., Canada, and Mexico price $960; price for others $1,920. Available in 9-track, ASCII character set tape, 1600 bpi, 6250 bpi, or 3480 cartridge. Single issues also available; order number PB94-593351, price T02. Documentation included; may be ordered separately as PB94-189834.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Data file, *Hazardous materials spills, *Oil spills, *Reporting, Chemical spills, Risk assessment, Notification, Emergency planning, Emergency preparedness, Pollution sources, Pollution abatement, Pollution control, United States, Magnetic tapes, *Emergency Response Notification System, Response action.

PB94-780301/REB AV$35.00
Beyond Business as Usual: Meeting the Challenge of Hazardous Waste (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 88, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of twenty-eight minutes, thirty seconds.

The video provides an overview of the national strategy for cleaning up and reducing hazardous waste. It describes the background and passage of CERCLA and RCRA legislation; the role of government, industry and the community in waste reduction; and available treatment technologies. Interviews with representatives from industry, environmental groups and government are included.

Keywords: *Superfund, *Hazardous materials, *Waste management, Waste treatment, Pollution control, Remediation, Pollution regulations, Government policies, Video tapes, Treatment technology, Waste reduction, Cleanup, RCRA(Resource Conservation and Recovery Act), CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB94-780319/REB AV$35.00
Bioremediation: A Video Primer (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of thirty-six minutes.

This videotape program provides an introduction to the basic concepts behind bioremediation, an overview of how the technology is currently being used, a perspective on the future potential of the technology, and answers to some commonly raised questions about bioremediation. It is targeted to a technical audience, particularly those involved with environmental issues, but does not assume any prior knowledge of biological processes. The objective of the program is to familiarize the viewer with the essential concepts of this technology and to provide a basis for understanding technical discussions in this area. It should be useful for engineers, scientists, managers, site owners, and regulators involved in site remediation.

Keywords: *Superfund, *Hazardous materials, *Pollution control, Remediation, Biological treatment, Biodegradation, Waste treatment, Technology innovation, Public information, Information dissemination, Video tapes, *Bioremediation, Treatment technology.

PB94-780327/REB AV$35.00
Superfund at Work: The Pioneer Sand Cleanup (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

1994, 1 audiovisual
See also PB93-963630.
This VHS video is 1/2 inch, color, with playing time of ten minutes, fifteen seconds.

The video provides the anatomy of a Superfund clean-up-from removal action to construction completion and post-completion monitoring - at the Pioneer Sand site in Belleview, Florida. The remedial action is explained through graphics and easy-to-understand language.

Keywords: *Florida, *Hazardous materials, *Waste management, *Superfund, Remedial action, Pollution control, Waste disposal, Industrial wastes, Municipal wastes, Organic compounds, Inorganic compounds, Public relations, Video tapes, Belleview(Florida).

PB94-780335/REB AV$35.00
Strategy for Crisis Response (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
10 May 93, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of twenty-three minutes, twenty seconds.

Using the example of a crisis in Livingston, Louisiana this video provides information to states on how to properly set up a strategy for crisis response.

Keywords: *Crisis management, *Superfund, *Hazardous materials, *Emergency plans, Emergency preparedness, Emergencies, Pollution control, Emergency services, State government, Local government, Video tapes, Livingston(Louisiana), EPA Region 6, Emergency response.

PB94-780343/REB AV$35.00
Catskill Tire Fire (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
9 Sep 89, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of thirteen minutes, twenty-three seconds.

The video highlights the emergency response to a tire fire in Catskill, NY. EPA provided technical and health risk advice.

Keywords: *New York, *Tire fires, *Hazardous materials, *Waste management, Superfund, Pollution control, Waste disposal, Emergency preparedness, Environmental effects, Health hazards, Risk assessment, Video tapes, Catskill(New York), Emergency.

PB94-780350/REB AV$35.00
Superfund In Action (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1989, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of twenty-two minutes, thirteen seconds.

The video provides an overview of a PCB Superfund cleanup in LaSalle, Illinois including interviews with community members; explanation of the use and health effects of PCBs; and an explanation of the Superfund process.

Keywords: *Illinois, *Superfund, *Hazardous materials, *Waste management, Polychlorinated biphenyls, Waste disposal, Remedial action, Pollution control, Health effects, Public relations, Video tapes, LaSalle(Illinois).

PB94-780368/REB AV$35.00
Hazardous Waste Cleanup: A Delaware Perspective (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1991, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of 9 minutes.

The video provides an introduction to the history of Superfund with emphasis on Delaware's National Priorities List sites and the Delaware Hazardous Substance Act. It also covers specific health effects and remedy selection.

Keywords: *Delaware, *Superfund, *Hazardous materials, *Pollution control, Remediation, Waste management, Waste disposal, Pollution effects(Humans), Site characterization, Video tapes, Cleanup.

PB94-780376/REB AV$35.00
Ecology and Environment: Dioxin Destruction (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
9 Feb 89, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of 10 minutes.

The video provides information on dioxin and the mobile incinerator developed to destroy it. A general overview of how the incinerator works is also given.

Keywords: *Dioxin, *Incinerators, Hazardous materials, Waste disposal, Pollution control, Portable equipment, Design criteria, Performance evaluation, Video tapes, *Mobile incineration system.

PB94-780384/REB AV$35.00
Superfund Site Exercise: Practice Makes Perfect (Video).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1994, 1 audiovisual
This VHS video is 1/2 inch, color, with playing time of 17 minutes.

The video highlights 3 chemical emergency response drills in NY and NJ. The framework of state and local organizations that handle hazardous materials emergencies is explained.

Keywords: *Superfund, *Chemical spills, *Emergency training, Emergency plans, Emergency preparedness, Interagency coordination, Emergency services, Emergency drills, Hazardous materials spills, New York, New Jersey, State government, Local government, Video tapes, Training exercises, EPA Region 2.

PB94-963230/REB Standing Order
Analysis of State Superfund Programs: 50-State Study, 1993 Update.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 254p EPA/540/R-94/008, OSWER-9375.6-08C
See also PB92-963418.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Under the Superfund Amendments and Reauthorization Act (SARA) of 1986, Congress requires EPA to involve States in the Superfund program in a 'substantial and meaningful' way. EPA's State and Local Coordination Branch (SLCB) is responsible for developing regulations, guidance, and policy related to this Congressional mandate. As part of its responsibilities, the SLCB tries to maintain comprehensive information about State capabilities to contribute to or manage cleanups at hazardous waste sites. Under a cooperative agreement with EPA, ELI has collected, organized, and summarized the information presented here on the 52 State cleanup programs.

Keywords: *Superfund, *State programs, *Hazardous materials, *Waste management, Land pollution control, Water pollution control, States(United States), Remedial action, Pollution regulations, Government policies, Standards compliance, Program management, CERCLA(Comprehensive Environmental Response Compensation and Liability Act), Cleanup.

PB94-963236/REB Standing Order
Update on SACM Implementation.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
8 Mar 94, 4p EPA/540/F-94/007, OSWER-9203.1-14
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The directive provides the implementation of the transition initiatives that cover the Superfund Reform Act. Several EPA Regions are working together to accelerate cleanup progress and procedures.

Keywords: *Superfund, *Waste management, *Hazardous materials, Guidelines, Remedial action, Sites, Cleanup, Cost reduction, Operating costs, Objectives, *Superfund Accelerated Cleanup Model, Office of Solid Waste and Emergency Response, National Contingency Plan, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB94-963252/REB Standing Order
OPA Update: Implementation of the Oil Pollution Act of 1990. Volume 3, Number 1, July 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 8p EPA/540/F-94/036, OSWER-9200.5-115I
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Contents:
- Proposed Revisions to the NCP;
- EPA Assumes New Regulatory Responsibilities;
- A Brief History of the NCP;
- Publications Update;
- MOU for Offshore Facilities (full text);
- National Preparedness for Response Exercise Program Workshops;
- Regulatory Update;
- EPA to Co-Sponsor 1995 International Oil Spill Conference;
- and 1993 ERNS Data:
- Releases of Oil by Material Type and by Mode.

Keywords: *Oil spills, *Pollution control, *Emergency plans, Pollution regulations, Remediation, Emergency preparedness, Contingency planning, Interagency cooperation, Responsibility, Federal agencies, Local government, Regional planning, Revisions, *OPA(Oil Pollution Act), *Oil Pollution Act of 1990, National Oil and Hazardous Substances Pollution Contingency Plan, MOU(Memorandum Of Understanding).

PB94-963256/REB Standing Order
Region IX Mainland Regional Contingency Plan. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Dec 93, 283p EPA/540/R-94/025, OSWER-9200.5-131
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this plan is to promote the coordination of a timely, effective response by various Federal agencies and local, state, and non-government organizations to discharges of oil and releases of hazardous substances, pollutants and contaminants in order to protect public health, welfare and the environment. Although this plan includes information on Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) remedial response actions, the primary purpose of the plan is to provide guidance for emergency response and removal under the provisions of the Clean Water Act (CWA) as amended by the Oil Pollution Act of 1990 (OPA), for response actions under provisions of CERCLA, and for regional contingency planning under the provisions of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Nevada, California, Arizona, *Area contingency plans, Emergency response, EPA Region 9, Western Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963257/REB Standing Order
Oceania Regional Contingency Plan. Draft rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Dec 93, 179p EPA/540/R-94/026, OSWER-9200.5-132
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Plan is a Regional Contingency Plan (RCP) for USEPA Region IX - Oceania which includes the State of Hawaii, Commonwealth of the Northern Marianas Islands, Territory of Guam and Territory of American Samoa as well as all other islands under U.S. jurisdiction in the south and central Pacific Ocean. It reflects updates and revisions to the Oceania Plan developed by the U.S. Coast Guard (USCG). The individual sub-Area plans address areas of environmental or special economic importance. Environmentally sensitive areas are broadly defined to include unique or pristine areas, critical or endangered wildlife species habitats, National, state or local parks, fish hatcheries, shore areas, and research, cultural or archaeological sites. Due to the scope and detail required to identify these areas, drinking water intakes and environmentally sensitive areas will be covered in the specific sub-Area plans.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Hawaii, American Samoa, Guam, Northern Mariana Islands, Pacific Ocean Islands, *Area contingency plans, Emergency response, EPA Region 9, Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963258/REB Standing Order
Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases (Unified Plan - Volume 1).
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Nov 93, 481p EPA/540/R-94/027, OSWER-9200.5-133
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Northwest Area Contingency Plan (NWACP) provides Federal, state, local, and tribal governments with policies and procedures for responding to worst-case discharges of oil or hazardous substances. The NWACP, in conjunction with the National Contingency Plan functions as the Inland Area Contingency Plan for the Environmental Protection Agency. The plan is intended to be utilized as a site-specific guidance document detailing resource priority information, protection and cleanup strategies, and local logistical information.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Alaska, *Area contingency plans, Emergency response, EPA Region 10, Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963259/REB Standing Order
Area Contingency Plan for Oil Discharges and Hazardous Substance Releases for Inland Zone of New Jersey.
Air Pollution Technical Information Center, Research Triangle Park, NC.
Dec 93, 292p EPA/540/R-94/028, OSWER-9200.5-134
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, State, tribal, local, and private entities in response to a discharge or substantial threat of discharge. The ACP applies to and is in effect for the inland waters of within the State of New Jersey.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, New Jersey, *Area contingency plans, Emergency response, EPA Region 2, Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963260/REB Standing Order
Area Contingency Plan for Oil Discharges and Hazardous Substance Releases for Inland Zone of New York State.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 204p EPA/540/R-94/029, OSWER-9200.5-135
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, State, tribal, local, and private entities in response to a discharge or substantial threat of discharge. The ACP applies to and is in effect for the inland waters of within New York State.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, New York, *Area contingency plans, Emergency response, EPA Region 2, Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963261/REB Standing Order
Area Contingency Plan for Oil Discharges and Hazardous Substance Releases for Inland Zone of the Caribbean.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 192p EPA/540/R-94/030, OSWER-9200.5-136
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, Commonwealth/Territory, local, and private entities in response to a discharge or substantial threat of discharge. The ACP applies to and is in effect for the inland waters of within Puerto Rico and the U.S. Virgin Islands.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Communications, Emergencies, Public relations, Puerto Rico, Virgin Islands, Caribbean Region, *Area contingency plans, Emergency response, EPA Region 2, Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963262/REB Standing Order
Region I Inland Area Contingency Plan. Volume 1.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 113p EPA/540/R-94/031, OSWER-9200.5-137
See also Volume 2, PB94-963263.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Area Contingency Plan (ACP) has been prepared under the direction of a Federal On-Scene Coordinator to provide guidance to response personnel working with any federal, state, or local agency and any private corporation. This plan provides for the coordination and direction of federal, state, and local response systems and encourages the development of local government and private capabilities to handle discharges and releases of oil or hazardous substances to the environment. The contents of Volume I include authorities, abbreviations and definitions, and general language describing the National Response System to address discharges or the substantial threat of discharges of oil or hazardous substances.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Vermont, Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, *Area contingency plans, Emergency response, EPA Region 1, Northeastern Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963263/REB Standing Order
Region I Inland Area Contingency Plan. Volume 2.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 126p EPA/540/R-94/032, OSWER-9200.5-138
See also Volume 1, PB94-963262.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Area Contingency Plan (ACP) has been prepared under the direction of a Federal On-Scene Coordinator to provide guidance to response personnel working with any federal, state, or local agency and any private corporation. The plan provides for the coordination and direction of federal, state, and local response systems and encourages the development of local government and private capabilities to handle discharges and releases of oil or hazardous substances to the environment. The second volume of the ACP contains the Area-specific portions of the plan. Volume II is organized according to the OPA section 4202 statutory requirements for ACPs for the entire inland area of Region I.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Rhode Island, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Vermont, Connecticut, Maine, Massachusetts, New Hampshire, *Area contingency plans, Emergency response, EPA Region 1, Northeastern Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963264/REB Standing Order
Federal Region IV Regional Oil and Hazardous Substances Pollution Contingency Plan.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 231p EPA/540/R-94/033, OSWER-9200.5-139
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Regional Contingency Plan (RCP) is prepared to comply with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and to implement the NCP at the Regional level. The plan provides the structure and mechanisms for responding to a pollution incident, or threat of a pollution incident, in a timely, coordinated and effective fashion. Procedures for coordinating with the United States Coast Guard (USCG) Area Plans and other Federal, state, tribal and local community emergency plans are presented in this plan.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, State government, Local government, Emergencies, Public relations, Communications, Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Tennessee, *Area contingency plans, Emergency response, EPA Region 4, Southeastern Region(United States), Feder-

al Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963265/REB Standing Order
Region VIII Area Contingency Plan, Denver, CO.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 432p EPA/540/R-94/040, OSWER-9200.5-140
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including federal, state, tribal, local, and private entities in response to a discharge or substantial threat of discharge.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Colorado, *Area contingency plans, Emergency response, EPA Region 8, Denver(Colorado), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963266/REB Standing Order
Northwest Area Contingency Plan for Region X.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 285p EPA/540/R-94/041, OSWER-9200.5-141
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Northwest Area Contingency Plan (ACP) supersedes the working draft released in March 1993 which officially replaced the Local Contingency Plans for MSO Puget Sound and MSO Portland; it functions as the Inland Area Contingency Plan for the Environmental Protection Agency; and it replaces Washington and Oregon Statewide Master Plans as the primary response and planning document for oil spill response. This volume represents the basic plan. It is the summation of policies and procedures for two Coast Guard Captain of the Port Zones, the Statewide Master Plans for the States of Oregon and Washington, and EPA Inland Region Ten. It provides Federal, state, and local responders in the Pacific Northwest with a single comprehensive response and planning document.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Idaho, Washington State, Oregon, *Area contingency plans, Emergency response, EPA Region 10, Northwestern Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963267/REB Standing Order
Region III Inland Area Committee, Inland Area Contingency Plan. Volumes 1 and 2.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
11 May 94, 576p EPA/540/R-94/042, OSWER-9200.5-142
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, State, tribal, local, and private entities in response to a discharge or substantial threat of discharge.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Pennsylvania, Virginia, Maryland, Delaware, West Virginia, *Area contingency plans, Emergency response, EPA Region 3, Middle Atlantic Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963268/REB Standing Order
Region V Oil Pollution Act of 1990 Area Contingency Plan.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1994, 190p EPA/540/R-94/043, OSWER-9200.5-143
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche. Document contains six diskettes.

The Area Contingency Plan (ACP) is written in conjunction with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Comprehensive Environmental Response, Compensation and Liability Act of 1980. The purpose of this Plan is to meet the requirements of Section 311(j)(4) of CWA. The ACP is designed to coordinate timely and effective response by Federal On-Scene Coordinators (OSC), various Federal agencies, State and local officials, and private industry to minimize damage resulting from releases of oil or hazardous materials. The ACP includes resource information that may be utilized during a response. The Plan outlines the type of cooperative response that should be carried out by the OSC during response actions.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio, *Area contingency plans, Emergency response, EPA Region 5, North Central Region(United States), Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963269/REB Standing Order
Response Actions at Sites with Contamination Inside Buildings. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
12 Aug 93, 6p OSWER-9360.3-12
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This directive transmits guidance on the use of authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, to conduct response actions to address releases of hazardous substances, pollutants, or contaminants that are found within buildings. Use of this guidance may assist Regional Decision Teams (RDTs) in implementing early actions under the Superfund Accelerated Cleanup Model (SACM).

Keywords: *Superfund, *Buildings, *Hazardous materials, *Waste management, Waste disposal, Pollution control, Site characterization, Remediation, Emergencies, Pollution regulations, *Indoor contamination, Remedial response, Response action, SACM(Superfund Accelerated Cleanup Model).

PB94-963270/REB Standing Order
Superfund Accelerated Cleanup Model.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 25p EPA/540/R-94/042, OSWER-9203.1-15
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

In an effort to speed and maximize cleanup of the worst sites first, the Environmental Protection Agency (EPA) developed the Superfund Accelerated Cleanup Model (SACM). SACM streamlines the Superfund process so hazardous waste sites can be addressed quicker and in a more cost effective manner. EPA Regional offices developed a number of pilot projects to test the principles of SACM. Although many pilots are underway in the Regions, the pilots described here involve four areas: accelerating cleanup through early actions; integrating site assessments; using Regional Decision Teams to establish priorities; and accelerating cleanup through the use of new technology.

Keywords: *Superfund, *Hazardous materials, *Waste management, Remedial action, Site characterization, Technology innovation, Priorities, Regional analysis, Decision making, *Superfund Accelerated Cleanup Model, Prioritization models, Pilot programs.

PB94-963271/REB Standing Order
Common Cleanup Methods at Superfund Sites.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 28p EPA/540/R-94/043, OSWER-9203.1-16
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The booklet contains one page fact sheets on some of the common clean-up methods used at hazardous waste sites across the nation. It is meant to help the public understand more about the various methods. It answers such questions as: What is the type of clean-up method; How does it work; Where is it used most; and What are the reasons for using it.

Keywords: *Superfund, *Hazardous materials, *Waste management, Waste disposal, Waste treatment, Pollution control, Waste processing, Remediation, Technology utilization, Environmental protection, Site characterization, Standards, Pollution regulations, Cleanup operations.

PB94-963272/REB Standing Order
Common Chemicals Found at Superfund Sites.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 56p EPA/540/R-94/044, OSWER-9203.1-17
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The booklet contains one page fact sheets on the most common chemicals found at hazardous waste sites across the nation. It is meant to help the public understand more about the chemical. It answers such questions as: How can a person be exposed to the chemical; How can it affect human health; How does it enter and leave the body; What levels of exposure result in harmful effects; What recommendations has the federal government made to protect human health from the chemical; and What are the methods for treatment and disposal of the chemical.

Keywords: *Superfund, *Hazardous materials, *Chemical compounds, Toxic substances, Toxicity, Risk assessment, Public health, Physiological effects, Health hazards, Environmental exposure pathway, Chemical properties, Safety standards, Waste management, Site surveys.

PB94-963274/REB Standing Order
Region VI Inland Area Contingency Plan, Texas - B. Volumes 1 and 2.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 668p EPA/540/R-94/045, OSWER-9200.5-145
See also PB94-963277.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including federal commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Superfund, *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordina-

tion, Interagency cooperation, National government, State government, Local government, Public relations, Communications, Emergencies, Texas, *Area contingency plans, Emergency response, EPA Region 6.

PB94-963275/REB Standing Order
Region VI Inland Area Contingency Plan. Volume 1 and Volume 1, Part 1.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 722p EPA/540/R-94/046, 0SWER-9200.5-146
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy. Portions of this document are not fully legible.

The Clean Water Act of 1977 as amended by the Oil Pollution Act of 1990 required the creation of 'federal areas', for which broadly based area committees, chaired by federal On-Scene Coordinators would prepare Area Contingency Plans. In EPA Region VI, the five state regional area has been designated as the federal planning area, and the Regional Response Team serves as the planning committee. An Area Contingency Plan has been prepared which fully meets the requirements set forth in Section 4202(b)(1)(A) of the Oil Pollution Act of 1990. This plan recognizes the existence of several areas that have disproportionately high risk of major oil spills, and provides greater levels of detail for those areas.

Keywords: *Superfund, *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Interagency cooperation, National government, State government, Local government, Public relations, Communications, Emergencies, Arkansas, Oklahoma, Louisiana, Texas, New Mexico, *Area contingency plans, South Central Region(United States), Emergency response, EPA Region 6.

PB94-963276/REB Standing Order
Region VI Inland Area Contingency Plan, Arkansas.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 246p EPA/540/R-94/047, OSWER-9200.5-147
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including federal commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Arkansas, *Contingency planning, *Oil spills, *Hazardous materials spills, Chemical spills, Emergency plans, Emergency preparedness, Waste management, Interagency cooperation, Intergovernmental relationships, Interagency coordination, Federal agencies, State government, Local government, Contractors, Environmental impacts, Area contingency plans, Emergency response, EPA Region 6, Cleanup.

PB94-963277/REB Standing Order
Region VI Inland Area Contingency Plan, Texas - A.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 850p EPA/540/R-94/048, OSWER-9200.5-148
See also PB94-963274.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including federal, commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Texas, *Area contingency plans, Emergency response, EPA Region 6, Federal Water Pollution Control Act, Oil Pollution Act of 1990.

PB94-963278/REB Standing Order
Region VI Inland Area Contingency Plan, Louisiana.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 318p EPA/540/R-94/049, OSWER-9200.5-149
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy. Portions of this document are not fully legible.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including Federal commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Superfund, *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Interagency cooperation, National government, State government, Local government, Public relations, Communications, Emergencies, Louisiana, *Area contingency plans, Emergency response, EPA Region 6.

PB94-963279/REB Standing Order
Region VI Inland Area Contingency Plan, New Mexico.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 310p EPA/540/R-94/050, OSWER-9200.5-150
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy. Portions of this document are not fully legible.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including Federal commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Superfund, *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Interagency cooperation, National government, State government, Local government, Public relations, Communications, Emergencies, New Mexico, *Area contingency plans, Emergency response, EPA Region 6.

PB94-963280/REB Standing Order
Region VI Inland Area Contingency Plan, Oklahoma.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 93, 618p EPA/540/R-94/051, OSWER-9200.5-151
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy. Portions of this document are not fully legible.

The purpose of this area contingency plan is to provide an action plan to respond to a release and to provide timely and effective coordination among the entire spill community, including Federal commonwealth/territorial, local and private entities in response to a discharge or a substantial threat of discharge (for oil discharges and hazardous substance releases).

Keywords: *Superfund, *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Interagency cooperation, National government, State government, Local government, Public relations, Communications, Emergencies, Oklahoma, *Area contingency plans, Emergency response, EPA Region 6.

PB94-963281/REB Standing Order
Region VII Inland Area Contingency Plan.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Dec 93, 409p EPA/540/R-94/052, OSWER-9200.5-152
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, State, tribal, local and private entities in response to a discharge or substantial threat of discharge. The geographic description of this ACP is USEPA Region VII, which encompasses the states of Kansas, Iowa, Missouri and Nebraska. Detailed descriptions of areas of special economic and environmental concern can be found in Appendix A.1 and A.2, Environmentally and Economically Sensitive Areas.

Keywords: *Emergency plans, *Hazardous materials spills, *Oil spills, *Chemical spills, *Superfund, Contingency planning, Emergency preparedness, Pollution control, Waste management, Interagency coordination, Intergovernmental relationships, National government, State government, Local government, Public relations, Communications, Emergencies, Iowa, Kansas, Missouri, Nebraska, *Area Contingency Plans, Emergency response, EPA Region 7, Central Region(United States), Oil Pollution Act of 1990, Federal Water Pollution Control Act.

PB94-963282/REB Standing Order
Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
14 Jul 94, 25p EPA/540/F-94/043, OSWER-9355.4-12
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

As part of the Superfund Administrative Improvements Initiative, this interim directive establishes a streamlined approach for determining protective levels for lead in soil at CERCLA sites and RCRA facilities that are subject to corrective action under RCRA section 3004(u) or 3008(h). This interim directive replaces all previous directives on soil lead cleanup for CERCLA and RCRA programs.

Keywords: *Superfund, *Lead(Metal), *Soil contamination, Pollution sampling, Land pollution control, Screening, Remedial action, Site characterization, Hazardous materials, Waste management, Risk assessment, Health hazards, Pollution regulations, Guidelines, Standards, Cleanup, RCRA(Resource Conservation and Recovery Act), CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB94-963283/REB Standing Order
Supplemental Five-Year Review Guidance. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
26 Jul 94, 30p EPA/540/F-94/044, OSWER-9355.7-02A
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of the memorandum is to amend OSWER Directive 9355.7-02 (May 23, 1991) (PB91-921369). Structure and Components of Five-Year Reviews, by providing supplemental guidance on five-year reviews. The supplemental guidance provides necessary clarifi-

cations as well as new direction to streamline the five-year review process and ensure the effective and efficient use of program resources. Specifically, this supplemental guidance: changes the trigger date for policy reviews to construction completion; provides a prioritization plan for conducting five-year reviews when Regions cannot conduct all required reviews; clarifies responsibility for conduct of five-year reviews at Federal facilities; restates that the five-year review covers all operable units (OUs) at a site; and, introduces a streamlined Type Ia review at sites where construction is ongoing, and provides model language.

Keywords: *Superfund, *Hazardous materials, *Waste management, Pollution regulations, Inspection, Site surveys, Pollution sampling, Evaluation, Assessments, Site characterization, Reviewing, Remedial action, Pollution control, Requirements, Standards compliance, Government policies, Guidelines.

PB94-963284/REB Standing Order
Guidance on Residential Lead-Based Paint, Lead-Contaminated Dust, and Lead-Contaminated Soil.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
14 Jul 94, 32p EPA/540/F-94/045, OSWER-9355.4-15
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Recently EPA has received an increasing number of requests for advice on residential lead-based paint hazards, including hazards from lead-contaminated dust and soil in and around homes. These requests have come from State and EPA Regional Officials, as well as from public health and housing personnel, concerned with childhood lead poisoning. While the Agency is in the process of developing a rule to identify these hazards under section 403 of the Toxic Substances Control Act (TSCA), 15 USC 2683, the authors believe it is appropriate to respond to these requests by issuing guidance at this time based upon their best currently available information. It is the Agency's intent that this guidance be used to prioritize primary prevention activities that address hazards from lead in and around residences. The levels and conditions described in this guidance should be used by decision-makers (risk assessors, risk managers, etc.) to identify lead-based paint hazards, sources of lead exposure, and the need for control actions in residential environments where children may be present.

Keywords: *Lead(Metal), *Paints, *Toxicity, *Pollution prevention, Metal coatings, Hazards, Dust, Soils, Residential buildings, Schools, Commercial buildings, Guidelines, Exposure, Risk assessment, Children, US EPA, Sources, Compliance, Regulations, State government, Local government.

PB94-963285/REB Standing Order
Interim Guidance for the Determination of Significant and Substantial Harm Facilities for Oil Pollution Act Response Plans. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
15 Jun 93, 2p EPA/540/F-94/046, OSWER-9360.8-10
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Interim Guidance supplements the proposed response plan revisions to 40 CFR Part 112 of February 17, 1993 (PB93-963408). The purpose of this guidance is to assist Agency personnel in determining whether a facility could reasonably be expected to cause significant and substantial harm to the environment. The Oil Pollution Act (OPA) of 1990 requires that such facilities must have their facility response plans reviewed and approved by the Agency. The Interim Guidance includes a description of the screening process, forms to document the determination process, and an attachment that explains the justification for each criterion.

Keywords: *Oil spills, *Facilities management, *Accident prevention, Risk assessment, Safety standards, Inspection, Certification, Requirements, Site characterization, Emergency preparedness, Emergency plans, Remedial action, Oil Pollution Act of 1990, Substantial harm facilities, Emergency response.

PB94-963286/REB Standing Order
WasteLAN/CERCLIS Codebook.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Jun 94, 191p EPA/540/R-94/053, OSWER-9221.2-03
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This codebook: summarizes key information in the Superfund Program Implementation Manual and the Enforcement Data Quality Manual; provides the range of most commonly used codes for each of the data elements in WasteLAN/CERCLIS that are associated with the specific Superfund activities discussed; serves to expedite the coding process by grouping data elements into sections that allow one-stop coding of key steps in the Superfund pipeline; provides integrated response and Enforcement coding guidance; helps information managers 'zero in' on the key data elements that define Superfund achievements; highlights those areas most susceptible to data coding problems. This guidance is intended as a quick reference tool. It is not intended to be a comprehensive list of coding requirements.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Data coding, Site characterization, Project planning, Reporting, Scheduling, Regional analysis, Requirements, Information systems, Data bases, Data base management, User guides, WasteLAN system, Data elements, CERCLIS(Comprehensive Environmental Response Compensation and Liability Information System).

PB94-963287/REB Standing Order
CERCLA: Comprehensive Data Element Dictionary.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
11 Mar 94, 1110p EPA/540/R-94/054, OSWER-9221.2-04
See also PB94-963288.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This version of the EPA Superfund Program Data Element Dictionary (DED) is an update of the June 14, 1991 version. All of the EPA Superfund CERCLIS-related computer systems are documented in this version of the DED. These systems include: CERCLIS-the mainframe system for the 10 EPA regions' data and the U.S. Army Corps of Engineers' (USACE) data; WasteLAN-a PC LAN-based system used for data entry and reporting by the EPA regions; ISIF-a subsystem of WasteLAN which allows data entry and reporting of specific Superfund data; CleanLAN-a PC LAN-based system used for data entry and reporting by USACE; CERHELP-a subsystem to both CERCLIS and WasteLAN which contains non-site-specific data.

Keywords: *Superfund, *Hazardous materials, *Waste management, Data bases, Information retrieval, Terminology, Reporting, Site characterization, Pollution regulations, Documentation, *Data elements, Data dictionaries, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB94-963288/REB Standing Order
CERCLA: Comprehensive Data Element Dictionary Update.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1 Jul 94, 82p EPA/540/R-94/055, OSWER-9221.2-04-1
See also PB94-963287.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document updates the Superfund Program Data Element Dictionary from November 15, 1994 (PB94-963287).

Keywords: *Superfund, *Hazardous materials, *Waste management, Data bases, Information retrieval, Terminology, Reporting, Site characterization, Pollution regulations, Documentation, *Data elements, Data dictionaries, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB94-963289/REB Standing Order
Documenting the Estimated Value of PRP Work to be Performed.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
11 Apr 94, 6p EPA/540/F-94/047, OSWER-9200.3-14-1A
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The directive discusses requirements for documenting the estimated value of potential responsible party (PRP) response work under a Superfund enforcement settlement reported in CERCLIS/WasteLAN. It also provides guidance on how the value of PRP response work is documented in CERCLIS.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Cost analysis, Pollution control, Remedial action, Requirements, Fines(Charges), Penalties, Violations, Financing, Payments, Pollution regulations, Law enforcement, Potentially responsible parties, Valuation, Response action.

PB94-963291/REB Standing Order
SUPERFUND: EPA/ICMA Superfund Revitalization Conference. Held in Atlanta, Georgia on November 16-17, 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 53p EPA/540/R-94/061, OSWER-9202.1-22
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

EPA's Superfund Revitalization Office (SRO), EPA's Region VI Hazardous Waste Management Division, and the International City/County Management Association (ICMA) organized a regional conference in Dallas to solicit suggestions on how to improve the current Superfund program. Attendees representing industry, local government, state government, environmental groups, and private citizenry participated in break-out sessions focusing on three primary topics: economic considerations, public involvement, and innovative technologies.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Pollution control, Waste disposal, Remedial action, Pollution regulations, Government policies, Environmental issues, Risk assessment, Technology innovation, Economic analysis, National government, Federal agencies, US EPA, State government, Local government, Intergovernmental relationships, Public information, Citizen participation, Meetings, Cleanup operations.

PB94-963292/REB Standing Order
SUPERFUND; EPA/ICMA Superfund Revitalization Conference. Held in Dallas, Texas on May 19-20, 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 53p EPA/540/R-94/062, OSWER-9202.1-23
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

EPA's Superfund Revitalization Office (SRO), EPA's Region IV Waste Management Division, and the International City/County Management Association (ICMA) organized a regional conference in Atlanta to solicit suggestions on how to improve the current Superfund program. Attendees representing industry, local government, state government, environmental groups, and private citizenry participated in break-out sessions focusing on three primary topics: enhanced public involvement, remedy, selection, and federal and state roles.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Pollution control, Waste disposal, Remedial action, Pollution regulations, Government policies, Environmental issues, Risk assessment, National government, Federal agencies, US EPA, State govern-

ment, Local government, Intergovernmental relationships, Public information, Citizen participation, Meetings, Cleanup operations.

PB94-963303/REB Standing Order
ECO Update: Using Toxicity Tests in Ecological Risk Assessment. Volume 2, Number 1, September 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 11p* EPA/540/F-94/012
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9345.0-05I-V2-N1.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ECO Update is a Bulletin series on cological risk assessment of Superfund sites. These Bulletins serve as supplements to Risk Assessment Guidance for Superfund, Volume II: Environmental Evaluation Manual (EPA/540-1-89/001). The information presented is intended to provide technical information to EPA and other government employees. It does not constitute rulemaking by the Agency, and may not be relied on to create a substantive or procedural right enforceable by any other person. The Government may take action that is at variance with these Bulletins. Toxicity tests are used to expose test organisms to a medium--water, sediment, or soil--and evaluate the effects of contamination on the survival, growth, reproduction, behavior and/or other attributes of these organisms.

Keywords: *Superfund, *Hazardous materials, *Ecology, *Pollution control, Toxicity, Risk assessment, Manuals, Sites, Test methods, Contaminants, Biological stress, Guidelines.

PB94-963304/REB Standing Order
ECO Update: Catalogue of Standard Toxicity Tests for Ecological Risk Assessment. Volume 2, Number 2, September 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 4p* EPA/540/F-94/013
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9345.0-05I-V2-N2.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ECO Update is a Bulletin series on ecological risk assessment of Superfund sites. These Bulletins serve as supplements to Risk Assessment Guidance for Superfund Volume II: Environmental Evaluation Manual (EPA/540-1-89/001). The information presented is intended to provide technical information to EPA and other government employees. It does not constitute rulemaking by the Agency, and may not be relied on to create a substantive or procedural right enforceable by any other person. The Bulletin, which serves as a companion to 'Using Toxicity Tests in Ecological Risk Assessments' (ECO Update Vol. 2, No. 1), consists of an annotated list of standardized aquatic, sediment, terrestrial, and microbial toxicity tests currently in use at Superfund sites.

Keywords: *Superfund, *Hazardous materials, *Sites, *Ecology, *Pollution control, Standards, Toxicity, Test methods, Risk assessment, Aquatic ecosystems, Sediments, Microbiology, US EPA.

PB94-963305/REB Standing Order
ECO Update: Field Studies for Ecological Risk Assessment. Volume 2, Number 3, September 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 12p* EPA/540/F-94/014
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9345.0-05I-V2-N3.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ECO Update is a Bulletin series on ecological risk assessment of Superfund sites. These Bulletins serve as supplements to Risk Assessment Guidance for Superfund, Volume II: Environmental Evaluation Manual (EPA/540-1-89/001). The information presented is intended to provide technical information to EPA and other government employees. It does not constitute rulemaking by the Agency, and may not be relied on to create a substantive or procedural right enforceable by any other person. The ecological risk assessments of Superfund sites evaluate the actual or potential effects of site contaminants on plants and animals and assess the need for remediation, including considering remedial alternatives and evaluating ecological effects of remediation. The ecological risk assessment of a Superfund site nearly always requires some type of field study. At a minimum, some field study is necessary in order to identify organisms and habitats that may be at risk.

Keywords: *Superfund, *Hazardous materials, *Ecology, *Pollution control, Risk assessment, Sites, Contaminants, Plants(Botany), Animals, Habitats, Biological indicators, Populations, Organisms, Field tests, Government policies, Guidelines, Remedial response.

PB94-963316/REB Standing Order
BTAG Forum: Highlights of the 9th Annual RRAC/ 6th Annual SEEW. Volume 4, Number 2, August 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 10p* EPA/540/F-94/048
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9200.5-325I-V4-N2.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

BTAG Forum is a Bulletin series published by EPA/ OERR primarily to foster communication among Biological/Ecological Technical Assistance Groups (BTAGs/ETAGs) in EPA Regional Offices. BTAGs have been established in most Regions to assist EPA site managers in designing, managing, and reviewing ecological assessments of Superfund sites. The Forum carries news from the Regions, information on publications and other potentially useful resources, requests for information, and other items of interest to BTAG members.

Keywords: *Superfund, *Hazardous materials, *Sites, *Pollution control, *Meetings, Technical assistance, Investigations, Risk assessment, Ecology, Public health, Humans, Watersheds, Case studies, Wildlife, Protection, Guidelines, US EPA, EPA regions.

PB94-963317/REB Standing Order
DNAPL Site Characterization. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 12p* EPA/540/F-94/049, OSWER-9355.4-16FS
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Dense nonaqueous phase liquids (DNAPLs), such as some chlorinated solvents, coal tar wastes, creosote based wood-treating oils, and some pesticides, are immiscible fluids with a density greater than water. As a result of widespread production, transportation, use, and disposal of hazardous DNAPLs, particularly since 1940, there are numerous DNAPL contamination sites in North America. The potential for significant long-term groundwater contamination by DNAPL chemicals at many sites is high due to their toxicity, limited solubility (but much higher than drinking water limits), and significant migration potential in soil gas, groundwater, and/or as a separate phase liquid, DNAPL chemicals, particularly chlorinated solvents, are among the most prevalent groundwater contaminants identified in groundwater supplies and at waste disposal sites.

Keywords: *Waste management, *Superfund, Coal tar, Creosote, Pesticides, Hazardous materials, Waste disposal, Site characterization, Environmental transport, Soil gases, Ground water, Water pollution control, Site surveys, Chemical compounds, *DNAPL(Dense Nonaqueous Phase Liquids), *Dense nonaqueous phase liquids, Chlorinated solvents.

PB94-963319/REB Standing Order
ECO Update: Selecting and Using Reference Information in Superfund Ecological Risk Assessments. Volume 2, Number 4, September 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 6p* EPA/540/F-94/050
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9345.0-10I-V2-N4.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Rocky Mountain Arsenal (RMA), located north of Denver, CO, is a large (27 sq mi.) Superfund site composed of many habitats. To meet specific sampling needs, investigators selected several smaller reference areas representing specific habitats at RMA. The Wellington Wildlife Refuge, for example, more than 50 miles north of RMA, was selected for collecting mallard ducks, mallard eggs, cottontail rabbits, mule deer, and prairie dogs for chemical analyses. And investigators selected land five miles away as a reference site for soils because it was composed of the same soil type as that found at RMA. Investigators should try to match soil characteristics--such as particle size distribution, organic matter content, hydrologic regime, and pH--as closely as possible. For example, organic matter content, pH, and texture determine a soil's cation exchange capacity, or its ability to adsorb positively charged ions such as H(+), Mg(+2), or Cd(+2). These cations may include pollutants as well as nutrients.

Keywords: *Superfund, *Habitats, *Volatile organic compounds, *Water pollution effects, *Wildlife, Streams, Organic sulfides, Inorganic sulfides, Sediments, Organic matter, Sampling, Soil properties, Soil chemistry, Moisture content, Particle size, pH, Texture, Cation exchanging, Species diversity, Abundance, Bioindicators, *Rocky Mountain Arsenal, Denver(Colorado).

PB94-963321/REB Standing Order
Background Information: National Priorities List, Proposed Rule. Volume 4, Number 3, August 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 32p* EPA/540/F-94/051
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9320.7-04I-V4-N3.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The U.S. Environmental Protection Agency (EPA) is proposing 10 sites to the National Priorities List (NPL) in a rule published in the Federal Register in August 1994. Of the 10 sites in Proposed Rule No. 17, 6 are in the General Superfund Section and 4 in the Federal Facilities Section. The sites are in nine States. South Carolina is proposing two sites; the remaining seven States are each proposing one site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Waste disposal, Remedial action, Pollution control, Site characterization, Site surveys, Technology innovation, Technology utilization, Rule making, Pollution regulations, Law enforcement, Goals, National Priorities List, RCRA(Resource Conservation and Recovery Act), CERCLA(Comprehensive Environmental Response Compensation and Liability Act), Cleanup.

PB94-963322/REB Standing Order
Descriptions of 10 Sites Proposed for the National Priorities List in August 1994. Volume 4, Number 3, August 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 15p* EPA/540/F-94/052
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9320.7-07I-V4-N3.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all

others $200). Single copies also available in paper copy or microfiche.

This document consists of descriptions of the 10 sites proposed for the National Priorities List (NPL) in August 1994. The size of the site is generally indicated, based on information available at the time the site was scored using the Hazard Ranking System. The size may change as additional information is gathered on the sources and extent of contamination. Sites were arranged alphabetically by site name.

Keywords: *Superfund, *Site characterization, Hazardous materials, Waste management, Site surveys, Remediation, Pollution control, Emergencies, Sites, Waste disposal, *National Priorities List, Cleanup.

PB94-963323/REB Standing Order
Supplementary Materials: National Priorities List, Proposed Rule. Volume 4, Number 3, August 1994. Intermittent bulletin.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 32p* EPA/540/F-94/053
Also pub. as Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response rept. no. OSWER-9320.7-05I-V4-N3.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Table of Contents:
How Sites are Placed on the NPL;
Statutory Requirements and Listing Policies;
NPL Status (August 1994);
How Sites are Deleted from the NPL;
Key Dates in Superfund;
Removing Proposed Sites;
and Lists and Data Summaries.

Keywords: *Superfund, *Hazardous materials, *Waste management, Waste disposal, Remedial action, Pollution control, Site characterization, Site surveys, Technology innovation, Technology utilization, Rule making, Pollution regulations, Law enforcement, Goals, National Priorities List, RCRA(Resource Conservation and Recovery Act), CERCLA(Comprehensive Environmental Response Compensation and Liability Act), Cleanup.

PB94-963401/REB Standing Order
Cost Management Manual for the Superfund Remedial and Enforcement Programs.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 94, 215p* EPA/540/R-93/085, OSWER-9202.1-20
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this Manual is to enumerate a universal set of cost management practices and procedures for EPA personnel who have responsibility for managing Work Assignments under contracts where EPA Contracting Officers (COs), EPA Project Officers (POs), and Work Assignment Managers (WAMs) are co-located (e.g., ARCS contracts and RAC contracts, as well as other Long-Term Contracting Strategy (LTCS) contracts under which remedial work is done and that use Work Assignments as the ordering document). The Manual presents cost management techniques that can be employed by EPA officials at each step in the life of a Work Assignment. In general, the Manual is designed to improve oversight of EPA contractors without creating an unnecessary administrative burden on WAMs, POs, and COs. Checklists and sample forms are included in the Manual to assist EPA personnel in monitoring contractor's costs.

Keywords: *Superfund, *Contract management, *Hazardous materials, *Waste management, Remediation, Waste disposal, Pollution monitoring, Site characterization, Pollution regulations, Cost containment, Cost estimates, Cost effectiveness, Cost analysis, Contractors, Law enforcement, Administrative procedures, Manuals, Cleanup costs.

PB94-963402/REB Standing Order
Report on State/Territory Non-NPL Hazardous Waste Site Cleanup Efforts for the Period 1980-1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 128p* EPA/540/R-94/001, OSWER-9242.2-09
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The report presents the results of an analysis of the State/Territory non-National Priorities List (non-NPL) cleanup activities in the United States. It discusses Superfund removal and remedial actions, the predominant remedies selected, and the costs of cleanup. The time frame of the data presented within this report covers the period from 1980 through 1992. The report focuses on State/Territory non-NPL hazardous waste cleanup efforts. A key point is that the data is historical. The report represents what has happened over the first twelve years of the Superfund program. It does not purport to represent what is currently happening in Superfund or what is anticipated to happen in Superfund.

Keywords: *Hazardous materials, *Waste management, *States(United States), Waste disposal, Remedial action, Waste treatment, Site surveys, Site characterization, Superfund, Historical aspects, *Territories, Cleanup, Potentially responsible parties.

PB94-963407/REB Standing Order
ERNS and CERCLA. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 94, 2p* EPA/540/F-94/019, OSWER-9360.0-22FSA
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center (NRC), the ten EPA Regions, or the U.S. Coast Guard. The initial notification data may be updated with information from various Federal, State, and local response authorities as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Superfund, *Hazardous materials spills, *Chemical spills, Emergency preparedness, Pollution regulations, Reporting requirements, Notification procedures, Compliance, Administrative procedures, Pollution control, Pollution abatement, Toxic substances, Emergency plans, Risk assessment, *CERCLA(Comprehensive Environmental Response Compensation and Liability Act), Reportable quantity.

PB94-963408/REB Standing Order
ERNS and Oil. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 94, 2p* EPA/540/F-94/020, OSWER-9360.0-23FSA
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Emergency Response Notification System (ERNS) is a computer data base containing information on release notifications of oil and hazardous substances that have occurred throughout the United States and have been reported to the National Response Center (NRC), the ten EPA Regions, and the U.S. Coast Guard. Initial notification data may be updated with information from various Federal, State, and local response authorities, as appropriate. ERNS data can be used to analyze release notifications, support emergency planning efforts, and assist decision makers in developing spill prevention programs.

Keywords: *Oil spills, Emergency preparedness, Pollution regulations, Reporting requirements, Notification procedures, Compliance, Administrative procedures, Pollution control, Pollution abatement, Petroleum products, Oil pollution, Emergency plans, Risk assessment, *Emergency Response Notification System, *ERNS(Emergency Response Notification System), Non-petroleum oil.

PB94-963413/REB Standing Order
Control of Excavation Depths at the Sikes Disposal Pits Superfund Project. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 4p* EPA/540/F-94/037, OSWER-9200.5-306FS
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Frequently at Superfund sites, excavation of contaminated material is part of the selected remedy. There are a variety of approaches for determining and documenting the removal of the appropriate amount of material. This fact sheet documents one specific approach taken by Region 6 and the Texas Natural Resource Conservation Commission at the Sikes Disposal Pits Superfund project. The Texas Natural Resource Conservation Commission (TNRCC) administered the clean-up of the Sikes Disposal Pits under a Cooperative Agreement with Region 6 of the U.S. Environmental Protection Agency. The high level of on-site oversight support used by TNRCC to make determinations, provide direction and monitor the remediation contractor's efforts made this project unique. Remediation goals included the excavation of contaminated material for incineration, the minimization of the excavation of material that does not exceed the action criteria, and the minimization of contractor remobilization when halting excavation for sampling and analysis.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Heavy metals, Xylene, Toluene, Creosote, Halides, Polycyclic aromatic hydrocarbons, Phenols, Ground water, Surface waters, Soil contamination, Water pollution, Land pollution, Incineration, Excavation, Remedial action, Texas, Sikes Disposal Pits, Crosby(Texas), Harris County(Texas), Volatile organic compounds, Cleanup.

PB94-963415/REB Standing Order
Superfund Delegations Work Group. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 94, 96p* EPA/540/R-94/057, OSWER 9242.2-10
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Superfund Delegations Work Group was established on August 10, 1993 by Deputy Administrator Sussman as part of the Superfund Administrative Improvements Task Force. The Work Group examined current delegations of authority (both formal and informal) to assure that Superfund decisions are being made at the most efficient and effective level. The Work Group reviewed the 55 formal Superfund delegations and other policy directives and developed recommendations for 17 Superfund delegations and two directives. Of these, eleven delegations have been accepted for implementation by the Assistant Administrator for the Office of Solid Waste and Emergency Response (OSWER). Enforcement related recommendations have been forwarded to the recently formed Office of Enforcement (OE) Enforcement Delegations Work Group for further action consistent with the reorganization of OE to the Office of Enforcement and Compliance Assurance (OECA).

Keywords: *Superfund, *Hazardous materials, *Waste management, *Program management, Decision making, Management planning, Administrative procedures, Policy making, Audits, Liabilities, Reports, Requirements, Recommendation, Pollution control, Delegation of authority.

PB94-963417/REB Standing Order
EPA Ensures Oversight of Worker Safety and Health at Superfund Incinerator Sites. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 4p* EPA/540/F-93/040, OSWER-9285.8-06FS

Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

In response to increasing concern over the safety and health of hazardous waste workers at Superfund incinerator sites, the Environmental Protection Agency (EPA) recently established a joint EPA-Labor Superfund Health and Safety Task Force to coordinate activities designed to ensure vigorous oversight of occupational safety and health at these sites. As a result of EPA/Labor Task Force-sponsored inspections, operators of the inspected incinerators have agreed to address the team's findings and to improve their safety and health programs. The EPA/Labor Task Force also has developed a draft 'Protocol for Safety and Health Inspections at Superfund Sites' to be used for inspections of all types of Superfund sites. In 1993, the EPA/Labor Task Force will continue to conduct additional Superfund incinerator site inspections. EPA believes that the initiaties launched with the EPA/Labor Task Force will ensure that the safety and health of workers engaged in hazardous waste cleanup activities is a top priority at these sites.

Keywords: *Superfund, *Incinerators, *Hazardous materials, *Occupational safety and health, Waste disposal, Incineration, Occupational exposure, Working conditions, Pollution effects, Health hazards, Safety hazards, Heat stress(Physiology), Accident prevention, Inspection, Audits, Industrial hygiene, Thermal destruction facilities.

PB94-963506/REB Standing Order
Superfund Chemical Data Matrix.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 94, 849p* EPA/540/R-94/009, OSWER-9360.4-18
See also PB94-963507.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Superfund Chemical Data Matrix (SCDM) is a source for factor values and benchmark values applied when evaluating potential National Priority List (NPL) sites using the Hazard Ranking System (HRS). The HRS assigns factor values for toxicity, gas migration potential, gas and ground water mobility, surface water persistence, and bioaccumulation potential based on the physical, chemical, and radiological properties of CERCLA hazardous substances (defined for HRS purposes as CERCLA hazardous substances plus CERCLA pollutants and contaminants) present at a site for a particular migration pathway. The HRS also assigns extra weight to targets with exposure levels to hazardous substances that are at or above benchmarks. These benchmarks include both screening concentrations and concentrations specified in regulatory limits for the hazardous substances present at a site for a particular migration pathway. Section 2 of this document explains how data are selected and calculated for inclusion in SCDM. Section 3 describes how SCDM data, HRS factor values, and benchmarks are presented.

Keywords: *Superfund, *Hazardous materials, *Environmental factors, *Site characterization, Toxic substances, Chemical compounds, Toxicity, Benchmarks, Screening, Environmental transport, Environmental persistence, Environment pollution, Bioaccumulation, Environmental exposure pathway, Risk assessment, Physical properties, Chemical properties, Public health, Environmental health, Superfund Chemical Data Matrix, National Priority List, Hazard Ranking System.

PB94-963507/REB Standing Order
Superfund Chemical Data Matrix. Appendix B Tables.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 94, 131p* EPA/540/R-94/010, OSWER 9360.4-18-1
See also PB94-963506.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Superfund Chemical Data Matrix (SCDM) Appendix B Tables are a source for factor values and benchmark values applied when evaluating potential National Priority List (NPL) sites using the Hazard Ranking System (HRS). The HRS assigns factor values for toxicity, gas migration potential, gas and ground water mobility, surface water persistence, and bioaccumulation potential based on the physical, chemical, and radiological properties of hazardous substances (defined for HRS purposes as CERCLA hazardous substances plus CERCLA pollutants and contaminants) present at a site for a particular migration pathway. The HRS also assigns extra weight to targets with exposure levels to hazardous substances that are at or above benchmarks. These benchmarks include both screening concentrations and concentrations specified in regulatory limits for the hazardous substances present at a site for a particular migration pathway. Appendix B-1 contains an HRS factor value and benchmark tables (organized by pathway) for nonradioactive hazardous substances, Appendix B-2 contains similar tables for radionuclides.

Keywords: *Superfund, *Hazardous materials, *Environmental factors, *Site characterization, Toxic substances, Chemical compounds, Toxicity, Benchmarks, Screening, Environmental transport, Environmental persistence, Environment pollution, Bioaccumulation, Environmental exposure pathway, Risk assessment, Physical properties, Chemical properties, Public health, Environmental health, Tables(Data), Superfund Chemical Data Matrix, National Priority List, Hazard Ranking System.

PB94-963627/REB Standing Order
Referral of Small Oil Spills to Coast Guard under Oil Pollution Act Before New Enforcement MOU is in Effect.
Environmental Protection Agency, Washington, DC. Office of Waste Programs Enforcement.
17 Jun 91, 4p* OSWER-9844.02
Paper copy available on Standing order, deposit account required (minimum deposit $200 U.S., Canada, and Mexico; all others $400). Single copies also available in paper copy or microfiche.

The memorandum supplements earlier guidance concerning a case-by-case approach to the referral of post-Oil Pollution Act (OPA) oil spills to the Coast Guard. Congress has rewritten Section 311 to provide additional administrative and judicial oil spill enforcement remedies when it passed the OPA, and noted in the legislative history that this new authority is available to both the Administrator of the Environmental Protection Agency and the Secretary of Transportation.

Keywords: *Oil spills, *US Coast Guard, *Reporting requirements, Notification procedures, Remediation, Water pollution control, Responsibility, Pollution regulations, Law enforcement, MOU(Memorandum of Understanding), Oil spill response, Oil Pollution Act of 1990.

PB94-963648/REB Standing Order
Superfund Information Repositories and Administrative Records: Introduction for Librarians. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Waste Programs Enforcement.
1994, 9p* OSWER-9836.00-01FS
Paper copy available on Standing order, deposit account required (minimum deposit $200 U.S., Canada, and Mexico; all others $400). Single copies also available in paper copy or microfiche.

Citizens play a central role in the Superfund program. EPA considers public input when making site cleanup decisions, particularly the Agency's selection of the remedy for the site. The fact sheet discusses two features of EPA's Superfund Community Relations Program: the Information Repository and the Administrative Record.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Information dissemination, Libraries, Information centers, Records management, Information management, Information retrieval, Data management, Data compilation, Public information, Pollution control, Pollution regulations, Technical reports, Manuals, Repositories.

PB94-963701/REB Standing Order
Superfund Record of Decision (EPA Region 1): Loring Air Force Base (Operable Unit 6) Site, ME., April 1994. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 162p* EPA/ROD/R01-94/086
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Loring AFB (LAFB) Operable Unit (OU) 6, consists of the Railroad Maintenance Site (RRMS), East Gate Waste Storage Tanks Site (EGWST), and Fuel Drop Sites (FDS) North 1 and 2 (FDS-N1 and FDS-N2, respectively), South-Active (FDS-SA) and South-Former (FDS-SF). The State of Maine Department of Environmental Protection (MEDEP) concurs with the selected remedy for the RRMS and with the No Action remedy under CERCLA for FDS-N1, FDS-N2, and FDS-SA. In separate actions which are not part of this Record of Decision (ROD), the Air Force is taking non-CERCLA remedial actions at EGWST and FDS-SF pursuant to state requirements under an Air Force/State Two-Party Supplement to the Federal Facility Agreement (FFA) being signed simultaneously with this ROD.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air force facilities, Waste storage, Storage tanks, Soil contamination, Land pollution, Remedial action, Site characterization, Installation restoration, Maine, *Record of Decision, Loring Air Force Base, Limestone(Maine), Aroostook County(Maine).

PB94-963702/REB Standing Order
Superfund Record of Decision (EPA Region 1): Picillo Farm, Coventry, RI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 280p* EPA/ROD/R01-93/076
See also PB86-133998.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This ROD sets forth the selected remedy for the Picillo Farm Site, which includes both source control and management of migration components to obtain a comprehensive remedy. The major components of the selected source control remedy include: in situ enhanced vacuum extraction of contaminated soil to remove volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs); excavation and off-site disposal of surface soil contaminated with polychlorinated biphenyls (PCBs); access restrictions to the source area, such as fence construction; and a soil monitoring program to demonstrate compliance with soil cleanup levels and a performance monitoring program to evaluate the effectiveness of the enhanced vapor extraction system and the need to adjust or modify operating parameters of the system.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polychlorinated biphenyls, Soil contamination, Ground water, Aquifers, Land pollution, Water pollution monitoring, Remedial action, Rhode Island, *Record of Decision, Coventry(Rhode Island), Kent County(Rhode Island), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963703/REB Standing Order
Superfund Record of Decision (EPA Region 1): Pease Air Force Base, Operable Unit 1, NH., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 191p* EPA/ROD/R01-93/083
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents a selected source control remedial action designed to provide containment of landfill wastes at Landfill 5, Pease AFB, NH. The selected remedy includes excavation and consolidation, above the groundwater table, of saturated Landfill 5 debris and construction of a cap over Landfill 5. It is also proposed that all soil and debris from Landfills 2 and 4 would be excavated and transported to

Landfill 5 for consolidation and used as subgrade fill material prior to capping of Landfill 5. A final decision under CERCLA for Landfills 2 and 4 will be required prior to implementation of the proposed consolidation plan. The selected remedy also includes extraction of groundwater to facilitate excavation of saturated landfill debris, treatment of the groundwater in an on-site mobile treatment system and discharge of treated groundwater to the base wastewater treatment facility.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air force facilities, Landfills, Debris, Industrial wastes, Municipal wastes, Sludge, Pesticides, Metals, Aromatics, Inorganic compounds, Sediments, Land pollution, Ground water, Water treatment, Capping, Installation restoration, New Hampshire, *Record of Decision, Pease Air Force Base, Rockingham County(New Hampshire), First remedial action, Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963704/REB Standing Order
Superfund Record of Decision (EPA Region 1): Pease Air Force Base, Operable Unit 2, NH., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 143p* EPA/ROD/R01-93/085
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents a selected remedial action designed to reduce potential leaching of soil contaminants to groundwater at Site 34, Pease AFB, NH. The selected remedy includes the excavation of contaminated soils and drainage piping associated with Site 34. Also included is groundwater extraction and treatment for excavation dewatering purposes. The treatment and/or disposal of soils removed from the site will include one of the following; thermal desorption elsewhere on the base, asphalt batching of the soils at an off-base vendor location, or disposal at a Subtitle D Landfill or RCRA facility, as deemed necessary at the time of remediation.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air force facilities, Storage tanks, Underground storage, Polycyclic aromatic hydrocarbons, Metals, Soil contamination, Land pollution, Soil treatment, Ground water, Water pollution, Water treatment, Installation restoration, New Hampshire, *Record of Decision, Pease Air Force Base, Rockingham County(New Hampshire), Second remedial action, Cleanup.

PB94-963705/REB Standing Order
Superfund Record of Decision (EPA Region 1): Pinette's Salvage Yard, Washburn, ME., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
2 Jun 93, 34p* EPA/ROD/R01-93/077
See also PB90-107186.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents an amendment to the United States Environmental Protection Agency's (EPA) Source Control portion of the selected remedial action chosen in a Record of Decision signed on May 30, 1989 (the 1989 ROD--PB90-107186) for the Pinette's Salvage Yard Site, in Wahsburn, Maine. The remedial action selected for Source Control in the 1989 ROD consisted of: off-site incineration of PCB-contaminated soils greater than 50 ppm; and on-site solvent extraction of additional PCB-and organic-contaminated soils.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Polychlorinated biphenyls, Organic compounds, Soil contamination, Solvent extraction, Incineration, Remedial action, Maine, *Record of Decision, Washburn(Maine), Aroostook County(Maine), Cleanup.

PB94-963706/REB Standing Order
Superfund Record of Decision (EPA Region 1): Nyanza Chemcial Waste Dump, Operable Unit 3, Ashland, MA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 106p EPA/ROD/R01-93/082
See also PB86-172418 and PB92-963704.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The third operable unit is an additional source control remedy involving the cleanup of mercury-contaminated sediments in a wetland and certain drainageways between the area of former Nyanza, Inc. operations and the Sudbury River. These areas are referred to as the Continuing Source Areas. In summary, the remedy provides for: (1) excavation of sediment with mercury levels above 1 mg/kg from the Continuing Source Areas; (2) dewatering of the contaminated sediment; (3) disposal of dewatered sediments under a portion of the cap constructed under the first operable unit remedy; (4) reconstruction of the area of cap removed during disposal; (5) treatment, if necessary, of water from the dewatering operation with discharge to an on-Site surface water body; (6) restoration of impacted wetland areas; (7) institutional controls to limit exposure to contaminants in the Sudbury River; (8) planning and implementaion of public awareness activities to increase public knowledge about contamination remaining in the Sudbury River sediments and fish; (9) performing certain pre-design studies to aid in the design of the selected remedy; and (10) creation of a fourth operable unit to conduct additional investigation of the Sudbury River.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Open dumps, Chemical wastes, Mercury(Metal), Wetlands, Surface waters, Sudbury River, Aquatic biology, Water pollution effects, Food chains, Sediments, Soil contamination, Water pollution, Land pollution, Massachusetts, *Record of Decision, Third remedial action, Ashland(Massachusetts), Middlesex County(Massachusetts), Cleanup.

PB94-963707/REB Standing Order
Superfund Record of Decision (EPA Region 1): Peterson/Puritan Site, Operable Unit 1, Cumberland/Lincoln, RI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 174p* EPA/ROD/R01-93/075
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Decision Document presents the selected remedial action for the Peterson/Puritan, Inc. Superfund Site, Operable Unit 1, in Cumberland and Lincoln, Rhode Island. Operable Unit 1 contains two remediation areas. The CCL remediation area, a source of volatile organic contamination, includes the former Peterson/Puritan, Inc. facility, which is the Site's namesake (currently the CCL Custom Manufacturing facility, and referred to as CCL). The PAC remediation area includes the Pacific Anchor Chemical Corporation (PAC) facility (formerly the Lonza and Universal Chemical Company facility), which is a source of arsenic and volatile organic contamination. Each remediation area is further split into source and downgradient area components, respectively.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Arsenic, Soil contamination, Soil gases, Ground water, Land pollution, Water pollution, Remedial action, Rhode Island, *Record of Decision, Cumberland(Rhode Island), Lincoln(Rhode Island), Providence County(Rhode Island), Volatile organic compounds, Cleanup.

PB94-963708/REB Standing Order
Superfund Record of Decision (EPA Region 1): Otis Air National Guard/Camp Edwards, MA., January 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 93, 86p* EPA/ROD/R01-93/084
See also PB93-963704.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Massachusetts Military Reservation (MMR) on Cape Cod, Massachusetts lies within the boundaries of Falmouth, Mashpee, Sandwich, and Bourne. The Area of Contamination (AOC) Main Base Landfill Number 1 (LF-1) Source Area is located on the southern half of MMR and is bounded by Turpentine and Frank Perkins Road to the east and west and Herbert Road and Connery Avenue to the north and south, respectively. In summary, the interim remedy consists of the following: constructing a landfill cover system on the 1970 Cell, Post-1970 Cell, and Kettle Hole; conducting post-closure maintenance and monitoring of the cover system for a minimum of 30 years after construction is complete; monitoring landfill gas and groundwater quality semiannually from existing and proposed well locations at AOC LF-1; and reviewing the performance of the remedy every five years after implementation.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Cape Cod, Landfills, Ground water, Plumes, Soil contamination, Water pollution monitoring, Land pollution, Capping, Military facilities, Installation restoration, Remedial action, Massachusetts, *Record of Decision, Otis Air National Guard Base/Camp Edwards, Massachusetts Military Reservation, Barnstable County(Massachusetts), Volatile organic compounds, Landfill gases, Cleanup.

PB94-963709/REB Standing Order
Superfund Record of Decision (EPA Region 1): Newport Naval Education/Training Center, Newport, RI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 66p* EPA/ROD/R01-93/081
See also PB93-963707.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The U.S. Naval Education and Training Center (NETC) Newport is a National Priorities List (NPL) site. There are currently four areas of contamination (AOC) and six study areas (SAs) within NETC Newport that are under investigation. This Record of Decision (ROD) relates to the presence of the existing landfill area at McAllister Point as a source of contamination. McAllister Point Landfill was the site of a sanitary landfill which operated over a 20-year period. From 1955 until the mid-1970's, the site accepted all wastes generated at the Naval complex. The landfill received waste from all operational areas (machine shops, ship repair, etc.), Navy housing areas (domestic refuse), and from the 55 ships homeported at Newport prior to 1973 (approximately fourteen 40-cubic yard containers each day). The materials disposed of at the site reportedly included spent acids, paints, solvents, waste oils (diesel, lube and fuel), and polychlorinated biphenyl (PCB)-contaminated transformer oil.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval shore facilities, Landfills, Aquidneck Island, Waste oils, Polychlorinated biphenyls, Paints, Solvents, Acids, Insulating oils, Debris, Land pollution, Water pollution, Remedial action, Rhode Island, *Record of Decision, Newport Naval Education and Training Center, Middletown(Rhode Island), Newport County(Rhode Island), Cleanup.

PB94-963710/REB Standing Order
Superfund Record of Decision (EPA Region 1): Linemaster Switch Corporation Site, Woodstock, CT., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 113p* EPA/ROD/R01-93/079
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ROD sets forth the selected remedy for the Linemaster Switch Corporation Superfund Site, which includes both source control and management of migration components to obtain a comprehensive remedy. The major components of the selected source control remedy include: In situ vacuum extraction of contaminated soil to remove volatile organic compounds

(VOCs); Institutional controls, that shall consist of a fence surrounding the contamination source area to restrict access to this area; and an environmental monitoring program. The major components of the selected management of migration remedy include: extraction of contaminated groundwater from the overburden and bedrock using extraction wells; treatment of contaminated groundwater using air stripping with carbon air emission controls; an environmental monitoring program to include, at a minimum, monitoring on-site and off-site groundwater monitoring wells and drinking water supply wells; and institutional controls that shall include, at a minimum, deed restrictions to prevent the use of untreated contaminated groundwater until the cleanup levels are met.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Soil contamination, Ground water, Land pollution, Soil treatment, Water pollution, Environmental monitoring, Remedial action, Connecticut, *Record of Decision, Woodstock(Connecticut), Windham County(Connecticut), Volatile organic compounds, Cleanup.

PB94-963711/REB Standing Order
Superfund Record of Decision (EPA Region 1): Salem Acres Site, Salem, MA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 151p* EPA/ROD/R01-93/078
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document represents the selected remedial action for the Salem Acres Site in Salem, Massachusetts. The remedial action for the Salem Acres Site, as described in this ROD, addresses the principal threats to the human health and the environment posed by exposure of humans to contaminated soils from the Salem Acres Site. This remedy addresses all principal threats to human health and the environment posed by the sources of contamination at the Site resulting from dermal absorption and incidental ingestion of contaminants in surficial soils.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sludge, Lagoons, Beryllium, Arsenic, Xylenes, Dioxins, Polycyclic aromatic hydrocarbons, Polychlorinated biphenyls, Soil contamination, Land pollution, Ground water, Surface waters, Wetlands, Water pollution, Capping, Remedial action, Massachusetts, *Record of Decision, Cleanup, Salem(Massachusetts), Essex County(Massachusetts), Volatile organic compounds.

PB94-963712/REB Standing Order
Superfund Record of Decision (EPA Region 1): Naval Construction Battalion Center, Sites 12 and 14, Davisville, RI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 43p* EPA/ROD/R01-93/080
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Site 12-Building 316, DPDO Transformer Oil Spill Area and Site 14-Building 38, Transformer Oil Leak. This remedy addresses remediation of contaminated flooring materials and soils at Sites 12 and 14 by eliminating or reducing the risks posed by the PCB contamination, through removal of flooring materials and soils with subsequent off-site disposal or off-site incineration, depending on the level of contamination. This action is intended to be the permanent remedy for Sites 12 and 14.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval shore facilities, Battalion level organizations, Transformers, Polychlorinated biphenyls, Building materials, Dust, Soil contamination, Land pollution, Remedial action, Rhode Island, *Record of Decision, Cleanup, Davisville Naval Construction Battalion Center, Davisville(Rhode Island), Washington County(Rhode Island).

PB94-963713/REB Standing Order
Superfund Record of Decision (EPA Region 1): Somersworth Sanitary Landfill Site, Somersworth, NH., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 200p* EPA/ROD/R01-94/087
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Decision Document presents the selected remedial action for the Somersworth Sanitary Landfill Superfund Site in Somersworth, New Hampshire. The selected remedy for the Somersworth Sanitary Landfill Superfund site includes both source control and management of migration components to obtain a comprehensive remedy.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sanitary landfills, Metals, Inorganic compounds, Ground water, Plumes, Water pollution monitoring, Surface waters, Sediments, Soil contamination, Land pollution, Capping, Remedial action, New Hampshire, *Record of Decision, Cleanup, Somersworth(New Hampshire), Strafford County(New Hampshire), Volatile organic compounds, Semivolatile organic compounds.

PB94-963714/REB Standing Order
Superfund Record of Decision (EPA Region 1): Central Landfill Site, Operable Unit One, Johnston, RI., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 275p* EPA/ROD/R01-94/088
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Decision Document presents the selected remedial action for the Central Landfill Superfund Site in Johnston, Rhode Island. In summary, the selected source control remedy consists of: Constructing a multi-layer RCRA C cap over the existing 121 acre Phase I area and incorporating the existing 32 acres of RIDEM approved cap on the side slopes; Hydraulic containment and treatment of groundwater in the hot spot area of the landfill and discharging the treated groundwater to either on-site surface water or the Cranston Waste Water Treatment Plant; Implementing deed restrictions on groundwater use and land development within property owned by the RISWMC; Initiating a long-term program of sampling and analysis of groundwater, surface water and air; Conducting a detailed evaluation of the existing landfill gas collection and combustion system; and Installing a chain link fence to prevent access.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Landfills, Industrial wastes, Solvents, Waste oils, Acids, Sewage sludge, Ground water, Surface waters, Water treatment, Water pollution monitoring, Capping, Restrictions, Remedial action, Rhode Island, *Record of Decision, Cleanup, Johnston(Rhode Island), Providence County(Rhode Island).

PB94-963801/REB Standing Order
Superfund Record of Decision (EPA Region 2): Fried Industries Site, East Brunswick, NJ., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 248p* EPA/ROD/R02-94/224
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Fried Industries Site. The selected remedy represents the first and only planned operable unit for the Fried Industries Site. It addresses contaminated surface soils on the site and groundwater contamination in the underlying shallow and deep aquifers.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, New Jersey, Arsenic, Industrial wastes, Soil contamination, Ground water, Aquifers, Land pollution control, Soil treatment, Water pollution control, *Record of Decision, *First remedial action, East Brunswick Township(New Jersey), Middlesex County(New Jersey), Cleanup, Volatile organic compounds.

PB94-963802/REB Standing Order
Superfund Record of Decision (EPA Region 2): Kenmark Textile Printing Corporation, Babylon, NY., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 83p* EPA/ROD/R02-94/225
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Kenmark Textiles Printing Corporation (Kenmark) site (Site). The United States Environmental Protection Agency (EPA), in consultation with the State of New York, has determined that the Site does not pose a significant threat to human health or the environment and, therefore, remediation is not appropriate. Thus, 'No Action' is the selected remedy for the Site. The determination is based on the results of remedial investigation activities conducted by a potentially responsible party (PRP) for the Site under NYSDEC supervision from 1987 to August 1990 and under EPA supervision from August 1991 through December 1993.

Keywords: *Superfund, *Hazardous materials, *Remedial action, New York, Solvents, Dyes, Metals, Arsenic, Chromium, Lead(Metal), Soil contamination, Ground water, *Record of Decision, East Farmingdale(New York), Suffolk County(New York), Tetrachloroethene.

PB94-963803/REB Standing Order
Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Oswego, NY., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 145p* EPA/ROD/R02-94/226
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) documents the U.S. Environmental Protection Agency's (EPA's) selection of a remedial action to augment the previously implemented remedial action (PB85-213734) and to address contamination detected outside the containment system at the Pollution Abatement Services (PAS) site. The selected remedial action represents the third operable unit of site remediation. The first operable unit was for removal actions taken from 1973 to 1982 by EPA and NYSDEC. The remedy for the second operable unit which addressed the on-site contaminated groundwater was specified in a ROD issued in June 1984. The selected remedy for this operable unit will incorporate all of the existing components of the second operable unit of site remediation. These components include: the existing containment system (including a cover, slurry wall and leachate and groundwater collection system); treatment and disposal of the collected leachate and groundwater; site security and access control by a perimeter fence; site maintenance; and long-term monitoring.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, New York, Metals, Polychlorinated biphenyls, Ground water, Surface waters, Aquifers, Soil contamination, Water pollution control, Land pollution control, Pollution monitoring, *Record of Decision, *Third remedial action, Oswego(New York), Oswego County(New York), Cleanup, Volatile organic compounds, Semivolatile organic compounds.

PB94-963804/REB Standing Order
Superfund Record of Decision (EPA Region 2): Juncos Landfill Site (Operable Unit 2), Juncos, PR., October 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 94p* EPA/ROD/R02-94/227
See also PB92-963831.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all

others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Unit Two (OU-II) of the Juncos Landfill located in the Municipality of Juncos, Puerto Rico. This decision document explains the factual and legal basis for selecting the remedy for this site. The operable unit is the second of two operable units for the Juncos Landfill Site. It focuses on groundwater contamination, resulting from contaminant migration from the landfill. The key components of the OU-II remedy include the following: Natural attenuation or no action for the groundwater; and Recommendation that institutional controls consisting of restrictions on groundwater withdrawal in the area north of the landfill be implemented by the Commonwealth. The implementation of this selected remedy in conjunction with the OU-I remedy will minimize or eliminate the potential carcinogenic and noncarcinogenic impacts.

Keywords: *Superfund, *Hazardous materials, *Earth fills, *Municipalities, Ground water, Monitoring, Recommendations, Public health, Volatile organic compounds, Leachates, Carcinogens, Metals, Antimony, Manganese, Capping, Waste treatment, Cost effectiveness, *Juncos(Puerto Rico), Record of Decision, Second Remedial Action, Institutional controls.

PB94-963805/REB Standing Order
Superfund Record of Decision (EPA Region 2): NL Industries, Inc., Pedricktown, NJ., July 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
8 Jul 94, 324p EPA/ROD/R02-94/228
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision documents the U.S. Environmental Protection Agency's (EPA's) selection of the remedial action for the NL Industries, Inc. site. The remedial action described in this document represents the second of two planned phases, or operable units, at the NL Industries site. This action, designated as Operable Unit One, addresses contaminated ground water, surface water, soils and stream sediments at the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Smelting, Industrial wastes, Lead(Metal), Metals, Soil contamination, Sediments, Ground water, Plumes, Surface waters, Land pollution, Water pollution, Environmental monitoring, Remedial action, New Jersey, *Record of Decision, Pedricktown(New Jersey), Salem County(New Jersey), Cleanup.

PB94-963806/REB Standing Order
Superfund Record of Decision (EPA Region 2): Universal Oil Products (Chemical Division), Borough of East Rutherford, Bergen County, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
29 Sep 93, 66p* EPA/ROD/RO2-93/206
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected interim remedial action for Operable Unit One at the Universal Oil Products (UOP) site, in the Borough of East Rutherford, Bergen County. The response action described in the document represents an interim remedy for the first of three planned operable units at the site. Operable Unit One consists of the uplands soils and leachate at the site. The selected interim action will address the threats due to contaminated soils and contaminated leachate, designated as Operable Unit One. It addresses the principle threats through treatment of the most highly contaminated materials and the lower level threats through containment. Since a portion of the selected remedy calls for the containment of contaminated soils, the remedial action for Operable Unit One will require long-term management.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polychlorinated biphenyls, Polycyclic aromatic hydrocarbons, Lead(Metal), Leachate, Soil contamination, Land pollution, Soil treatment, Remedial action, New Jersey, *Record of Decision, East Rutherford(New Jersey), Bergen County(New Jersey), Volatile organic compounds, Cleanup.

PB94-963807/REB Standing Order
Superfund Record of Decision (EPA Region 2): Tronic Plating, Farmingdale, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 51p* EPA/ROD/R02-93/202
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Tronic Plating Site (Site) located in the Town of Babylon, Suffolk County, New York. The United State Environmental Protection Agency (EPA), in consultation with the State of New York has determined that the Site does not pose a significant threat to human health and the environment and, therefore, remediation is not necessary nor appropriate. This determination is based on the results of the Phase I and Phase II remedial investigations conducted at the Site from 1989 to 1992, the risk assessment performed for the Site and the sediment and soil removal activities performed pursuant to an Administrative Order on Consent that were completed on August 13, 1993.

Keywords: *Superfund, *Hazardous materials, *Waste management, Metals, Cadmium, Sediments, Storm runoff, Ground water, Plumes, Land pollution, Water pollution, Remedial action, Site characterization, New York, *Record of Decision, Babylon(New York), Suffolk County(New York).

PB94-963808/REB Standing Order
Superfund Record of Decision (EPA Region 2): Wilson Farm, Plumsted Township, Ocean County, NJ., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
2 Aug 93, 70p* EPA/ROD/R02-93/220
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision presents the selected no action remedy for the Wilson Farm Site, in Plumsted Township, New Jersey. The New Jersey Department of Environmental Protection and Energy has determined that no further remedial action is necessary at the Wilson Farm Site. The removal of chemical and industrial waste materials from the site by Morton International, Inc, in 1992 was successful in remediating the principal threats associated with the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Industrial wastes, Chemical wastes, Organic compounds, Metals, Soil contamination, Ground water, Land pollution, Water pollution monitoring, Environmental monitoring, Remedial action, Site characterization, New Jersey, *Record of Decision, Plumsted Township(New Jersey), Ocean County(New Jersey).

PB94-963809/REB Standing Order
Superfund Record of Decision (EPA Region 2): Woodland Township, Route 72 and Route 532 Dump Sites, Burlington County, Chatsworth, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 34p EPA/ROD/R02-93/222
See also PB91-921426.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for subsurface soils at the Woodland Township Route 72 site. This is the second and final operable unit for the site. A previous Record of Decision (PB91-921402), signed on May 16, 1990, addressed the remediation of contaminated surface materials, sediments and ground water at the site. This decision document addresses the subsurface soils. The New Jersey Department of Environmental Protection and Energy has selected no further action for the second operable unit.

Keywords: *Superfund, *Hazardous materials, *Waste management, Open dumps, Soil contamination, Land pollution, Site characterization, New Jersey, *Record of Decision, Chatsworth(New Jersey), Woodland Township(New Jersey), Burlington County(New Jersey), Second remedial action.

PB94-963811/REB Standing Order
Superfund Record of Decision (EPA Region 2): Monroe Township Landfill, Middlesex County, NJ., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 75p* EPA/ROD/R02-93/199
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document, prepared by the New Jersey Department of Environmental Protection and Energy (NJDEPE) as lead agency, presents the selected remedy for the Monroe Township Landfill Site. This Record of Decision (ROD) sets forth the selected final remedy for the Monroe Township Landfill Site. The ROD addresses all environmental media and all operable units at the Site. The selected remedy is 'No Further Action with Maintenance and Monitoring'.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Inorganic compounds, Organic compounds, Leachate, Soil contamination, Ground water, Land pollution, Water pollution monitoring, Site characterization, Remedial action, New Jersey, *Record of Decision, Monroe Township(New Jersey), Middlesex County(New Jersey).

PB94-963812/REB Standing Order
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, Plattsburgh, NY., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
31 Mar 93, 33p* EPA/ROD/R02-93/204
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents a selected remedial action for soils at Site SS-011 on Plattsburg AFB in Plattsburgh, New York. Inasmuch as prior removal actions taken to excavate and dispose of DDT (4,4'-dichlorodiphenyltrichloroethane) contaminated soils in 1991 have proven protective of human health and the environment, no further action has been determined necessary at Site SS-011 to reduce site contaminants beyond their current levels. Inspections will be conducted, once per five-year period, to assess the general condition of the site, including the progress of revegetation in areas disturbed by the 1991 removal action and the potential effects of runoff from or onto the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air force facilities, DDT, Insecticides, Soil contamination, Land pollution, Environmental monitoring, Remedial action, Site characterization, Installation restoration, New York, *Record of Decision, Plattsburgh Air Force Base, Plattsburgh(New York), Clinton County(New York).

PB94-963813/REB Standing Order
Superfund Record of Decision (EPA Region 2): Preferred Plating Corporation, Farmingdale, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 41p* EPA/ROD/R02-93/205
See also PB90-150939 and PB93-963817.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the U.S. Environmental Protection Agency's (EPA's) selection of the remedial action for the third operable unit of the Preferred Plating Corporation Superfund Site (Site). This is the third and final operable unit for the Site, which addresses potential groundwater contamination that has been detected in the upgradient portion of the Site at

Del Laboratories, Inc. (Del). EPA in consultation with the NYSDEC has determined that this contamination does not pose a significant threat to human health or the environment and, therefore, remediation is not appropriate. This determination is based on previous cleanup activities at Del's facility, the cleanup activities that are planned under the two other operable units at the Site, and the remedial investigation and the human health risk assessment that were conducted for the third operable unit.

Keywords: *Superfund, *Hazardous materials, *Waste management, Nickel, Lead(Metal), Chromium, Cadmium, Metals, Ground water, Water pollution, Remedial action, Site characterization, New York, *Record of Decision, Babylon(New York), Suffolk County(New York).

PB94-963814/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, (Operable Unit 13), Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 30p* EPA/ROD/R02-93/213
See also PB92-963806, PB92-963808, PB92-963810, PB92-963832, PB93-963809, PB93-963810, and PB93-963826.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for two individual sites (Site 3 and 6), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for these Sites, has selected Excavation with On-Site Recycling and Off-Site Disposal as the selected remedy for Sites 3 and 6. Implementation of this alternative entails excavation and removal of all contaminated sediments at both sites above EPA risk based levels, New Jersey soil cleanup criteria and NOAA guidance for sediment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval air stations, Petroleum products, Hydrocarbons, Soil contamination, Sediments, Land pollution, Waste recycling, Asphalt, Batching, Remedial action, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Cleanup.

PB94-963815/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 10, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 39p* EPA/ROD/R02-93/210
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for seven individual sites (Site 9, 12, 33, 36, 37, 39 and 42), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for these Sites, has selected the no action alternative for Sites 9, 12, 33, 36, 37, 39 and 42.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Metals, Soil contamination, Land pollution, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Semivolatile organic compounds.

PB94-963816/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 8, Lakehurst, NJ., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Jun 93, 22p* EPA/ROD/R02-93/208
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for three individual sites (Sites 1, 11 and 35), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. Based on the effectiveness of prior removal actions to remove petroleum contaminated soils, the United States Department of the Navy, the lead agency for these Sites, has selected the no action alternative for Sites 1, 11 and 35. The Site 1 alternative includes a program to monitor the status of groundwater quality.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Metals, Organic compounds, Soil contamination, Ground water, Water pollution monitoring, Land pollution, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey).

PB94-963817/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 11, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 24p* EPA/ROD/R02-93/211
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for one site (Site 14), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for this Site, has selected Excavation with one Site Recycling and Off Site Disposal as the selected remedy for Site 14. Implementation of this alternative entails excavating contaminated soil and sediment from the site, that is above EPA risk based levels or the New Jersey soil clean up criteria. It should be noted that this Record of Decision (ROD) addresses only Site 14 and it is not intended to represent the remedial action status for other areas of concern at NAWCADLKE. Ground water contamination at this site is currently being remediated through an interim action documented in a previous ROD.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Naval air stations, Petroleum products, Hydrocarbons, Soil contamination, Sediments, Waste recycling, Asphalt, Batching, Remedial action, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Cleanup.

PB94-963818/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 9, Lakehurst, NJ., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Jun 93, 14p* EPA/ROD/R02-93/209
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for two individual sites (Sites 2 and 38) located at the Naval Air Warfare Center, Aircraft Division Lakehurst, New Jersey (NAWCADLKE). The United States Department of the Navy, the lead agency for this site, and the United States Environmental Protection Agency have selected the no action alternative as the appropriate action for Site 2 in Area H and for Site 38 in Area F.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Metals, Soil contamination, Land pollution, Organic compounds, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warfare Center, Lakehurst(New Jersey), Ocean County(New Jersey).

PB94-963819/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 12, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 19p* EPA/ROD/R02-93/212
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for four individual sites (Sites 7, 22, 24 and 25), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for these Sites, has selected the no action alternative for Sites 7, 22, 24 and 25.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Metals, Soil contamination, Land pollution, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Semivolatile organic compounds.

PB94-963820/REB Standing Order
Superfund Record of Decision (EPA Region 2): SMS Instruments, Suffolk County, Deer Park, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 58p* EPA/ROD/R02-93/219
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the second operable unit of the SMS Instruments, Inc. site (Site). This operable unit represents the second and last operable unit planned for this Site. This second operable unit addresses the potential upgradient groundwater contamination at the Site. The United States Environmental Protection Agency (EPA) in consultation with the State of New York has determined that there is no evidence of contamination upgradient of the Site contributing to the contamination at the Site; therefore, remediation for the second operable unit is not appropriate.

Keywords: *Superfund, *Hazardous materials, *Waste management, Industrial wastes, Aromatic hydrocarbons, Chlorinated hydrocarbons, Metals, Ground water, Water pollution, Site characterization, New York, *Record of Decision, Second remedial action, Deer Park(New York), Suffolk County(New York).

PB94-963821/REB Standing Order
Superfund Record of Decision (EPA Region 2): Niagara County Refuse, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
24 Sep 93, 78p* EPA/ROD/R02-93/200
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) documents the U.S. Environmental Protection Agency's (EPA's) selection of the remedial action for the Niagara County Refuse site. This operable unit is the first and only operable unit for the site. The primary objectives of this action are to control the source of contamination at the site and to reduce and minimize the migration of contaminants into site media thereby minimizing any health and ecological impacts.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Pesticides, Metals, Soil contamination, Sediments, Ground water, Surface waters, Leachate, Land pollution, Water pollution monitoring, Environmental monitoring, Remedial action, New York, *Record of Decision, Wheatfield(New York), Niagara County(New York), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963822/REB Standing Order
Superfund Record of Decision (EPA Region 2): Johnstown City Landfill, NY., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
31 Mar 93, 66p* EPA/ROD/R02-93/197
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Johnstown City Landfill site (the Site), located in the City of Johnstown, Fulton County, New York. This operable unit represents the entire remedial action for the Site. It addresses the principal threats to human health and the environment at the Site by controlling the source of contamination and the generation of leachate.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Municipal wastes, Inorganic compounds, Soil contamination, Ground water, Surface waters, Aquifers, Land pollution, Water pollution monitoring, Capping, Remedial action, New York, *Record of Decision, Johnstown(New York), Fulton County(New York), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963823/REB Standing Order
Superfund Record of Decision (EPA Region 2): Janssen, Inc., Site, Gurabo, PR., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 82p* EPA/ROD/R02-93/218
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim remedial action for the Janssen, Inc. Site (Site) in Gurabo, Puerto Rico. The remedial alternative presented in this document is for an interim remedy for the Site. It focuses on groundwater contamination as well as soil contamination beneath the Janssen Chemical Plant Building.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Chemical wastes, Leakage, Chemical plants, Soil contamination, Ground water, Plumes, Water treatment, Soil treatment, Water pollution, Land pollution, Remedial action, Puerto Rico, *Record of Decision, Gurabo(Puerto Rico), Volatile organic compounds, Cleanup.

PB94-963824/REB Standing Order
Superfund Record of Decision (EPA Region 2): Lodi Municipal Wells, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 77p* EPA/ROD/R02-93/221
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Lodi Municipal Well site was placed on the National Priorities List primarily due to radiological contamination. After performing extensive field investigations, the authors have determined that the radiological contamination is naturally occurring. Remedial action is not necessary to ensure protection of human health and the environment from non-radiological compounds at the Lodi Municipal Well site since the concentrations of those compounds in the ground water at the well do not pose an unacceptable risk. However, because ground water in the area has been found to contain sporadic contamination that is regional in nature, EPA recommends that the ground water not be used for potable water supply purposes without appropriate treatment.

Keywords: *Superfund, *Waste management, *Hazardous materials, *Radioactive materials, Radioisotopes, Natural occurrence, Water wells, Ground water, Water pollution, Remedial action, Site characterization, New Jersey, *Record of Decision, Lodi(New Jersey), Bergen County(New Jersey), Volatile organic compounds.

PB94-963825/REB Standing Order
Superfund Record of Decision (EPA Region 2): Robintech/National Pipe, Operable Unit 2, Town of Vestal, Broome County, NY., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Mar 93, 132p* EPA/ROD/R02-93/198
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Robintech, Inc./National Pipe Co. Site (hereinafter, the Site or the Robintech Site), Operable Unit Two (OU-2), located in the Town of Vestal, Broome County, New York. The United States Environmental Protection Agency (EPA) has determined that no action is necessary for the suspected lead contamination of Site-related soil and sediment at the Robintech Site. The concentration of lead in Site-related soil and sediment were found to be acceptable for protection of human health and the environment. Thus, No Action is the selected remedy for the second operable unit for the Site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Lead(Metal), Metals, Soil contamination, Sediments, Land pollution, Remedial action, Site characterization, New York, *Record of Decision, Vestal(New York), Broome County(New York).

PB94-963826/REB Standing Order
Superfund Record of Decision (EPA Region 2): Reynolds Metals Company Site, Massena, NY., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 74p* EPA/ROD/R02-93/201
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Reynolds Metals Company Site Study Area, in Massena, New York. The New York State Department of Environmental Conservation (NYSDEC) strongly supports the proposed dredging of contaminated sediments from the river, agrees with EPA's cleanup levels for the Site, and agrees with and supports the concept of using the Black Mud Pond for the disposal of untreated sediments and treatment residuals. This action or 'operable unit' is the first and only operable unit planned by the U.S. Environmental Protection Agency for the Reynolds Metals Company Site Study Area and addresses the principal threat posed by contaminated sediments in this Area by utilizing a mixed treatment/containment remedy for these contaminated sediments.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, River beds, Polychlorinated biphenyls, Polycyclic aromatic hydrocarbons, Furans, Saint Lawrence River, Water pollution, Remedial action, New York, *Record of Decision, Massena(New York), Saint Lawrence County(New York), Dibenzofurans, River sediments, Cleanup.

PB94-963827/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Engineering Center, Operable Unit 14, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 27p* EPA/ROD/R02-93/214
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for an individual site (Site 32), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for this site, has selected Excavation with On-Site Recycling and Off-Site Disposal as the selected remedy for Site 32. Implementation of this alternative entails excavation and removal of all contaminated soil at the site above EPA risk based levels or NJDEPE soil cleanup criteria.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval air stations, Petroleum products, Hydrocarbons, Soil contamination, Sediments, Land pollution, Waste recycling, Asphalt, Batching, Remedial action, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Cleanup.

PB94-963828/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 15, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 28p* EPA/ROD/R02-93/215
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected action for one site (Site 31), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for this site, has selected the no action with groundwater monitoring alternative for Site 31.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Landfills, Leachate, Ground water, Water pollution monitoring, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warefare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Volatile organic compounds.

PB94-963829/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 22, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 19p* EPA/ROD/R02-93/216
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected action for one site (Site 20), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. Based on the inconsistencies in the data supplied by numerous groundwater sampling rounds, the United States Department of the Navy, has selected the No Action alternative for Site 20.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Lead(Metal), Soil contamination, Land pollution, Remedial action, Site characterization, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey).

PB94-963830/REB Standing Order
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 23, Lakehurst, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 19p* EPA/ROD/R02-93/217
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for one site (Site 13), located at the Naval Air Warfare Center, Aircraft Division (NAWCADLKE) in Lakehurst, New Jersey. The United States Department of the Navy, the lead agency for this Site, has selected In-Situ Vapor Extraction as the selected remedy for Site 13. Implementation of this alternative entails extracting contaminants from the subsurface soils in vapor phase. The subsurface soil will be remediated to risk based levels, and the New Jersey soil clean up criteria. It should be noted that this Record of Decision (ROD) addresses only Site 13 and it is not intended to represent the remedial action status for other areas of concern at NAWCADLKE. Ground water contamination at this site is currently being remediated through an interim action documented in a previous ROD.

Keywords: *Superfund, *Hazardous materials, *Water disposal, *Pollution control, Naval air stations, Petroleum products, Soil contamination, Land pollution, Soil treatment, Remedial action, New Jersey, *Record of Decision, Naval Air Warfare Center, Naval Air Engineering Center, Lakehurst(New Jersey), Ocean County(New Jersey), Cleanup, Soil vapor extraction.

PB94-963831/REB Standing Order
Superfund Record of Decision (EPA Region 2): Batavia Landfill Site, Town of Batavia, Genesee County, NY., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 59p* EPA/ROD/R02-93/195
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) for the interim remedy is the first operable unit at the Batavia Landfill Site, located in the Town of Batavia, Genesee County, New York. The selected remedial action addresses the potential risks that the Batavia Landfill poses for the nearby residents who rely on the local potable water supply. Volatile organic and inorganic contaminants emanating from the landfill currently threaten the potable water supply to the south and in the general vicinity of the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Industrial wastes, Sludges, Magnesium, Chromium hydroxide, Inks, Solvents, Waste oils, Barium, Ground water, Water supply, Surface waters, Water pollution, Soil contamination, Sediments, Land pollution, New York, *Record of Decision, Cleanup, First remedial action, Batavia(New York), Genesee County(New York), Volatile organic compounds.

PB94-963832/REB Standing Order
Superfund Record of Decision (EPA Region 2): American Cyanamid Site, Operable Unit 1, Bridgewater Township, Somerset County, NJ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 71p* EPA/ROD/R02-93/203
Portions of this document are not fully legible.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document, prepared by the New Jersey Department of Environmental Protection and Energy (NJDEPE) as lead agency, presents the selected remedy for the American Cyanamid Site. This ROD addresses only one operable unit (Group I Impoundments) consisting of four on-site surface impoundments 11, 13, 19 and 24. The selected remedy is Solidification with Consolidation into the on-site Resource Conservation and Recovery Act (RCRA) Permitted Impoundment 8 Facility.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Sludges, Lagoons, Heavy metals, Sludge treatment, Ground water, Water pollution monitoring, Remedial action, New Jersey, *Record of Decision, Cleanup, Bridgewater Township(New Jersey), Somerset County(New Jersey), Volatile organic compounds, Semivolatile organic compounds.

PB94-963833/REB Standing Order
Superfund Record of Decision (EPA Region 2): FMC Dublin Road Site, Orleans County, NY., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 47p* EPA/ROD/R02-93/196
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The report is the ROD for the FMC, Dublin Road site, located in the Towns of Shelby and Ridgeway, Orleans County, New York. The selected remedial action addresses the soils, sediments, surface water and groundwater contaminated with metals and pesticides. A portion of the site was used for disposal of various wastes and debris by the FMC Corporation in Middleport, N.Y. The resultant waste pile created is acting as a source of contamination for the soils, sediments, surface water and groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Lead(Metal), Zinc, Mercury(Metal), Copper, Arsenic, Pesticides, Soil contamination, Sediments, Surface waters, Ground water, Land pollution, Water pollution, Soil treatment, Water treatment, Remedial action, New York, *Record of Decision, Cleanup, Shelby(New York), Ridgeway(New York), Orleans County(New York).

PB94-963834/REB Standing Order
Superfund Record of Decision (EPA Region 2): Rockaway Township Wellfield, Rockaway, NJ., October 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 85p* EPA/ROD/R02-94/255
See also PB87-189353.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for ground water contamination at the Rockaway Township Wellfield site. The remedy presented in this document addresses the current and future threats to human health and the environment associated with the contaminated ground water at the Rockaway Township Wellfield site. It provides for the restoration of the contaminated ground water to the more stringent of the federal and New Jersey Safe Drinking Water Act Maximum Contaminant Levels (MCLs) and the New Jersey Ground Water Quality Standards.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Vinyl chloride, Carbon tetrachloride, Chloroform, Metals, Pesticides, Chlorinated hydrocarbons, Ground water, Aquifers, Drinking water, Water treatment, Soil contamination, Land pollution, Remedial action, New Jersey, *Record of Decision, Cleanup, Rockaway Township(New Jersey), Morris County(New Jersey), Volatile organic compounds, Dichloroethenes.

PB94-963901/REB Standing Order
Superfund Record of Decision (EPA Region 3): Hranica Landfill Site (Operable Unit 2), Butler County, PA., May 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 27p* EPA/ROD/R03-94/178
See also PB91-921566.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit No. 2 (OU2) at the Hranica Landfill Site (the Site) in Buffalo Township, Butler County, Pennsylvania. This Operable Unit is the second and final operable unit for the Site and it addresses ground water contamination. The selected alternative for the ground water at the Site is No Action. Under this alternative, no further Remedial Action will be taken at this Site. Ground water will be monitored pursuant to the remedial action selected in the ROD for the first Operable Unit.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Ground water, Water pollution monitoring, Site characterization, Pennsylvania, *Record of Decision, Buffalo Township(Pennsylvania), Butler County(Pennsylvania), Second remedial action.

PB94-963902/REB Standing Order
Superfund Record of Decision (EPA Region 3): Aladdin Plating Site (Operable Unit 2), Lackawanna County, PA., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 99p* EPA/ROD/R03-94/179
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) describes the selection of the remedial action plan to address ground water contamination at the Aladdin Plating Site (the 'Site'). The remedial action to address aground water at the Site has been designated Operable Unit 2 (OU2) for purposes of organizing and identifying remedial actions at this Site. The Aladdin Plating Site is located near Scranton, Pennsylvania on Layton Road in Scott and South Abington Townships, Lackawanna County, Pennsylvania, approximately 1.5 miles north of the town of Chinchilla.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, Pennsylvania, Electroplating, Industrial wastes, Chromium, Ground water, Water pollution control, *Record of Decision, *Second remedial action, Scott Township(Pennsylvania), South Abington Township(Pennsylvania), Lackawanna County(Pennsylvania), Cleanup.

PB94-963903/REB Standing Order
Superfund Record of Decision (EPA Region 3): Revere Chemical Site, Nockamixon Township, Bucks County, PA., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 104p* EPA/ROD/R03-94/180
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Revere Chemical Site (the Site), located on the southeast side of U. S. Route 611, just north of Route 412 and south of the town of Revere, Pennsylvania. The contaminated media at the Site are divided into Operable Units as follows: OU1 - Contaminated soil areas, Solid waste, and miscellaneous debris and OU2 - Ground water and Mercury-contaminated sediments. This ROD addresses the first Operable Unit. The selected remedial action for the first Operable Unit is a final remedy and will address contaminated soil and solid waste and miscellaneous debris on portions of the Site. The volatile organic (VOC) soil contamination represents the principal threat. Therefore, treatment of the VOC-contaminated soil will be required.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, Pennsylvania, Solid wastes, Debris, Soil contamination, Ground water, Land pollution control, Soil treatment, Water pollution monitoring, *Record of Decision, *First remedial action, Nockamixon Township(Pennsylvania), Bucks County(Pennsylvania), Cleanup, Volatile organic compounds.

PB94-963904/REB Standing Order
Superfund Record of Decision (EPA Region 3): U.S. Defense General Supply Center, Operable Unit 9, Chesterfield County, VA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 54p EPA/ROD/RO3-93/174
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected interim remedial action for Operable Unit 9 (OU9) at the Defense General Supply Center (DGSC) in Chesterfield County, Virginia near Richmond. OU9 pertains to groundwater beneath Area 50, the Open Storage Area (OSA), and the Naitonal Guard Area (NGA). This operable unit is the third of nine operable units that are currently being addressed at the DGSC. OU9 addresses interim treatment and containment of groundwater in the upper and lower aquifers beneath Area 50, the OSA, and the NGA.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Supply depots, Military facilities, Ground water, Aquifers, Water pollution monitoring, Water treatment, Virginia, *Record of Decision, Third remedial action, Defense General Supply Center, Chesterfield County(Virginia), Volatile organic compounds, Cleanup.

PB94-963905/REB Standing Order
Superfund Record of Decision (EPA Region 3): Naval Air Development Center, Operable Unit 1, Bucks County, PA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 58p EPA/ROD/R03-93/175
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents a selected interim remedial action for Operable Unit One (OU-1) at the Naval Air Development Center in Warminster Township, Bucks County, Pennsylvania. The selected interim remedy for OU-1 is the first remedial action addressing the Site. OU-1 consists of contaminated groundwater attributable to Area A and Area B at the Site in overburden and shallow bedrock aquifers. The objective of the selected interim remedy is to minimize the migration of the contaminated groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Naval shore facilities, Solvents, Creosote, Phenols, Heavy metals, Polychlorinated biphenyls, Polycylic aromatic hydrocarbons, Ground water, Aquifers, Water pollution monitoring, Pennsylvania, *Record of Decision, Cleanup, First remedial action, Naval Air Development Center, Warminster Township(Pennsylvania), Bucks County(Pennsylvania), Volatile organic compounds.

PB94-963906/REB Standing Order
Superfund Record of Decision (EPA Region 3): William Dick Lagoons, West Caln Township, Chester County, PA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
31 Mar 93, 82p EPA/ROD/R03-93/177
See also PB92-963921.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit 3 of the William Dick Lagoons Site (Site), in West Caln Township, Pennsylvania. The remedy described in this Record of Decision is for Operable Unit 3 at the Site. The remedy selected for Operable Unit 3 will reduce the concentrations of hazardous substances in the Site soils so that leaching of contaminants into the groundwater will be minimized. Reduction of the volatile organic compounds and semi-volatile organic compounds in the soils is necessary in order the groundwater will not continue to be impacted above acceptable levels. In addition, the installation of a vegetative soil cover or multi-layer cap will prevent the surrounding community from exposure to Site-related contaminants through inhalation, ingestion, and dermal contact.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Lagoons, Ground water, Soil contamination, Water pollution, Land pollution, Remedial action, Pennsylvania, *Record of Decision, West Caln Township(Pennsylvania), Chester County(Pennsylvania), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963907/REB Standing Order
Superfund Record of Decision (EPA Region 3): Woodlawn County Landfill, Colora, MD., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
28 Sep 93, 106p EPA/ROD/R03-93/171
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Woodlawn Landfill site (the Site) located in Colora, Cecil County, Maryland. The remedial action selected for the Site is a final remedy which will address contaminated ground water, contaminated soils, and wastes buried at the Site. The ground water contamination represents a significant threat. Therefore, remediation of contaminated ground water will be required. The wastes and contaminated soils at the Site pose a relatively low long-term threat. Therefore, the wastes and contaminated soils will be addressed through a combination of engineering and institutional controls.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Municipal wastes, Sludges, Ground water, Soil contamination, Water pollution, Land pollution, Remedial action, Maryland, *Record of Decision, Colora(Maryland), Cecil County(Maryland), Cleanup.

PB94-963908/REB Standing Order
Superfund Record of Decision (EPA Region 3): Recticon/Allied Steel, Parker Ford, PA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Jun 93, 118p* EPA/ROD/R03-93/167
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the final selected remedial action for the Recticon/Allied Steel site in Parker Ford, East Coventry Township, Chester County, Pennsylvania. This is the only planned response action for the site. This remedy addresses source control of contaminated soil, groundwater remediation and an alternative water supply. Groundwater contamination represents a primary threat; therefore, the extraction and treatment of groundwater and an alternative water supply will be required. Soils on-site represent a low-level threat that may potentially impact groundwater quality; therefore, an excavation and off-site disposal remedy for source control will be required.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Zinc, Copper, Ground water, Water supply, Soil contamination, Water pollution, Land pollution, Remedial action,, Pennsylvania, *Record of Decision, Parker Ford(Pennsylvania), Chester County(Pennsylvania), Cleanup.

PB94-963909/REB Standing Order
Superfund Record of Decision (EPA Region 3): Ohio River Park, Operable Unit 2, Neville Island, PA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 38p* EPA/ROD/R03-93/164
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents a determination that no remedial action will be taken for the soil contamination in the Bridge Portion of the Ohio River Park Superfund Site in Allegheny County, Pennsylvania. The selected alternative for the Bridge Portion of the Site is 'No Action' with respect to the soil contamination. As specified in Section VI, Summary of Site Risk, there are not site-related risks that warrant a remedial action of any kind with respect to soil contamination in the Bridge Portion of the Site. Ground water contamination will be evaluated separately and addressed in the Remedial Investigation Report for the Site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Neville Island, Polycyclic aromatic hydrocarbons, Pesticides, Phenols, Inorganic compounds, Soil contamination, Land pollution, Remedial action, Site characterization, Pennsylvania, *Record of Decision, Allegheny County(Pennsylvania), Volatile organic compounds.

PB94-963910/REB Standing Order
Superfund Record of Decision (EPA Region 3): Occidental Chemical Corporation, Montgomery County, PA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 110p* EPA/ROD/R03-93/166
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Occidental Chemical Corporation Site, in Pottsgrove Township, Montgomery County, Pennsylvania. The Occidental Chemical Corporation Site includes an active manufacturing facility approximately 250 acres in size. The remedial action selected for the Site is a final remedy which will address ground water contamination in the bedrock aquifer and contamination at the earthen lagoons.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Industrial plants, Lagoons, Polyvinyl chloride, Coal fines, Ground water, Plumes, Remedial action, Pennsylvania, *Record of Decision, Pottsgrove Township(Pennsylvania), Montgomery County(Pennsylvania), Cleanup.

PB94-963911/REB Standing Order
Superfund Record of Decision (EPA Region 3): Novak Sanitary Landfill, Lehigh County, PA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 80p* EPA/ROD/R03-93/173
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Novak Sanitary Landfill Site (the 'Site'), South Whitehall Township, Lehigh County, Pennsylvania. The remedial action selected for the Site is a final remedy which will address the principle threat and reduce risk to human health and the environment caused by the unlined landfill. To achieve this objective, the selected remedy will: (1) ensure containment of the landfill contents, (2) provide long term monitoring of ground water for residences adjacent to the Site that are utilizing the ground water for drinking water; (3) mitigate the continued release of contaminants leaching from the landfill to the aquifer; (4) control the migration of combustible gases such as methane, (5) ensure landfill contaminants in the Site's surface storm-water and leachate drainages outside the proposed landfill cap are either not of environmental risk or contained by the proposed cap.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Metals, Inorganic compounds, Leachate, Sediments, Surface waters, Ground water, Water pollution monitoring, Land pollution, Capping, Restrictions, Remedial action, Pennsylvania, *Record of Decision, South Whitehall Township(Pennsylvania), Lehigh County(Pennsylvania), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-963912/REB Standing Order
Superfund Record of Decision (EPA Region 3): Rentokil/ Virginia Wood Preserving, Richmond, VA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
22 Jun 93, 102p* EPA/ROD/R03-93/168
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Rentokil/Virginia Wood Preserving Site (the Site) in Richmond, Virginia. This remedy will address all of the media impacted by the contamination at the site. Based on the information derived through the Remedial Investigation, the CCA Disposal Area, Fill Area, and the dense nonaqueous phase liquids (DNAPLs) pose principal threats to human health. Since wastes will be left in place, long-term monitoring of the ground water must be performed.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polycyclic aromatic hydrocarbons, Pentachlorophenol, Creosote, Metals, Xylene, Ground water, Surface waters, Soil contamination, Sediments, Land pollution, Soil treatment, Water pollution monitoring, Drums(Containers), Remedial action, Virginia, *Record of Decision, Cleanup, Richmond(Virginia), Henrico County(Virginia), Building demolition, Nonaqueous phase liquids.

PB94-963913/REB Standing Order
Superfund Record of Decision (EPA Region 3): Eastern Diversified Metals, Operable Unit 2, Hometown, PA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Sep 93, 62p* EPA/ROD/R03-93/169
See also PB92-963933, PB93-963914, and PB93-963628.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the deep ground water portion of Operable Unit 2 (OU2) of the Eastern Diversified Metals Site located in Hometown, Schuylkill County, Pennsylvania (Site). EPA has determined that no remedial action for the deep ground water is necessary at this Site to ensure protection of human health and the environment. No Federal and State requirements that are legally applicable or relevant and appropriate apply to this remedy since no remedial action will be taken. Because hazardous substances remain at the Site, a review will be conducted within five (5) years after this Record of Decision is signed to ensure continued protection of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Manganese, Metals, Ground water, Surface waters, Little Schuylkill River, Wetlands, Water pollution monitoring, Remedial action, Site characterization, Pennsylvania, *Record of Decision, Hometown(Pennsylvania), Schuylkill County(Pennsylvania), Fluff, Volatile organic compounds.

PB94-963914/REB Standing Order
Superfund Record of Decision (EPA Region 3): Delaware Sand and Gravel Site, (Amendment), New Castle, DE., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 73p* EPA/ROD/R03-93/172
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document revises the Record of Decision (ROD) signed on April 22, 1988, (PB89-206205) for the Delaware Sand and Gravel Site (Site), in New Castle, New Castle County, Delaware. This ROD amendment revises the remedy previously selected to address the buried materials and contaminated soils in the Drum Disposal, Ridge and Inert areas of the Site. This ROD amendment will be the final Record of Decision for the Site. The principal threats associated with these portions of the Site are buried drums and contaminated soils containing hazardous substances in the Drum Disposal Area and contaminated soils containing hazardous substances in the Ridge Area.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Drums(Containers), Ethers, Benzenes, Phenols, Xylenes, Styrene, Polychlorinated biphenyls, Methylene chloride, Trichloroethylene, Tetrachloroethylene, Soil contamination, Soil treatment, Remedial action, Delaware, *Record of Decision, Cleanup, New Castle(Delaware), New Castle County(Delaware), Volatile organic compounds, Semivolatile organic compounds.

PB94-963915/REB Standing Order
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, DE., November 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Nov 92, 45p* EPA/ROD/R03-93/163
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim remedial action for the WP 14 (D-4) and LF 18 (D-10) Sites at the Dover Air Force Base, located in Dover, Delaware. The selected interim remedy for these Sites addresses the long term, principal threat, continued ground water degradation, present at the WP 14 (D-4) and LF 18 (D-10) Sites.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Air Force facilities, Liquid wastes, Solvents, Waste oils, Tetrachloroethylene, Trichloroethylene, Ground water, Aquifers, Plumes, Soil gases, Water treatment, Water pollution monitoring, Remedial action, Delaware, *Record of Decision, Cleanup, Dover Air Force Base, Kent County(Delaware), Volatile organic compounds, Dichloroethene.

PB94-963916/REB Standing Order
Superfund Record of Decision (EPA Region 5): Duell-Gardner Landfill Site, Muskegon County, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 35p* EPA/ROD/R05-93/233
Portions of this document are not fully legible.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Duell-Gardner Landfill Site in Muskegon County, Michigan. This final remedy addresses contaminated groundwater and contaminated soil associated with the Duell-Gardner site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Carbon tetrachloride, Chloroform, Tetrachloroethylene, Anilines, Gentian violet, Ground water, Soil contamination, Water pollution, Land pollution, Water treatment, Soil treatment, Capping, Remedial action, Michigan, *Record of Decision, Cleanup, Dalton Township(Michigan), Muskegon County(Michigan).

PB94-963917/REB Standing Order
Superfund Record of Decision (EPA Region 3): Saegertown Industrial Area Site, Crawford County, PA., January 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 93, 114p* EPA/ROD/R03-93/165
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Saegertown Industrial Area Site (the 'Site'), Saegertown Borough, Crawford County, Pennsylvania. The Saegertown Industrial Area Site is an industrial park approximately 100 acres in size. The remedial action selected for the Site is a final remedy which will address soil and ground water contamination on portions of the Site. The soil contamination represents the principal threat. The ground water contamination represents a significant threat.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sludges, Coal tar, Chlorinated hydrocarbons, Phenols, Polycyclic aromatic hydrocarbons, Soil contamination, Land pollution, Soil treatment, Ground water, Plumes, Wetlands, Ponds, Water pollution monitoring, Water treatment, Remedial action, Pennsylvania, *Record of Decision, Cleanup, Saegertown(Pennsylvania), Crawford County(Pennsylvania), Volatile organic compounds, Semivolatile organic compounds.

PB94-963918/REB Standing Order
Superfund Record of Decision (EPA Region 3): Austin Avenue Radiation Site, Delaware County, PA., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 158p* EPA/ROD/R03-94/181
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the selected remedial actions for twenty-two (22) properties included in the Austin Avenue Radiation Site, Delaware County, Pennsylvania (Site). The selected remedial actions identified in this ROD will mitigate and/or prevent human exposure to radiation-contaminated buildings and soil. These actions will affect twenty-two (22) properties, twenty-one of which are contaminated with radioactive hazardous substances.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Radioactive wastes, Uranium 238, Radium 226, Thorium 230, Radon 222, Gamma radiation, Alpha radiation, Sediments, Dust, Building materials, Residential buildings, Soil contamination, Land pollution, Remedial action, Pennsylvania, *Record of Decision, Cleanup, Landsdowne(Pennsylvania), Delaware County(Pennsylvania), Building demolition.

PB94-963920/REB Standing Order
Superfund Record of Decison (EPA Region 3): North Penn Area 1 Site, Souderton, PA., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 94, 76p* EPA/ROD/R03-94/183
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for contaminated soil and the selected interim action for ground water contamination at the North Penn Area 1 Site in Souderton, Montgomery County, Pennsylvania. These remedial actions were chosen in accordance with the comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The decision document explains the factual and legal basis for selecting the remedies for Operable Units 1 and 2. The Description of the Selected Remedy is for alternative 3 for soil contamination (Excavation and Offsite Disposal) and a combination of Alternatives 4 and 5 for ground water contamination (Pumping and Treating of the upper interval of the Granite Knitting Mills well and the entire Well S-9) are the selected remedies for the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Earth fills, *Water pollution effects, Ground water, Soil properties, Contamination, Public health, Soils, Excavation, Concentration(Composition), Water wells, Industrial waste treatment, US EPA, Facilities, Standards, Performance evaluation, *Record of Decision, *Montgomery County(Pennsylvania), Remedial action, SARA(Superfund Amendments and Reauthorization Act of 1980).

PB94-963921/REB Standing Order
Superfund Record of Decision (EPA Region 3): Bell Landfill Superfund Site, Bradford County, PA., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 94, 89p* EPA/ROD/R03-94/184
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents and selected remedial action plan for the Bell Landfill Superfund Site (The 'Site') in Bradford County, Pennsylvania which was chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ('CERCLA'), as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 U.S.C. Section 9601 ('SARA'), and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan ('NCP'), 40 C.F.R. Part 300. The remedial action plan in the document is presented as the permanent remedy for controlling the soil and groundwater contamination at the Site. The remedy is comprised of the following components: Capping two fill areas; and Collecting leachate in new storage tanks for off-site treatment and disposal.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Earth fills, *Water pollution effects, *Ground water, Soil properties, Contamination, Leachate, Waste treatment, Storage tanks, Land titles, Removal, Soils, Venting, Gases, *Record of Decision, *Bradford County(Pennsylvania), Remedial action, SARA(Superfund Amendments and Reauthorization Act of 1980).

PB94-963922/REB Standing Order
Superfund Record of Decision (EPA Region 3): Buckingham County Landfill Superfund Site, VA., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Oct 94, 131p* EPA/ROD/R03-94/185
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the final remedial action selected for the Buckingham County Landfill Superfund Site (Site), located near the town of Sprouse's Corner in Buckingham County, Virginia. The remedial action was chosen in accordance with the requirements of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA), 42 U.S.C. Section 9601 et. seg., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300. The decision document explains the factual and legal basis for selecting the remedial action. The selected remedy includes the two following options, both of which are fully protective of human health and the environment: Monitor the ground water and cap the hazardous waste disposal area; and Implement the source control measures.

Keywords: *Superfund, *Hazardous materials, *Earth fills, *Waste disposal, *Water pollution effects, Ground water, Site surveys, Plumes, Soil properties, Water wells, Public health, Capping, Environmental monitoring, Contamination, Sources, Waste treatment, Excavation, Incineration, *Record of Decision, *Buckingham County(Virginia), *Remedial action, SARA(Superfund Amendments and Reauthorization Act of 1986).

PB94-964001/REB Standing Order
Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Company Site, Pontiac, SC. (Interim Remedial Action), December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 152p* EPA/ROD/R04-94/167
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected interim remedial action for the Townsend Saw Chain Company Site, Pontiac, Richland County, South Carolina. the purpose of this interim action is to prevent the continued offsite migration of the plume of contaminated groundwater. As a result of the site remedial investigation, the offsite area affected by chromium contamination in the surficial aquifer was found to extend a much greater distance from the site than previously known. Additionally, because the RI work to date has known that the contaminated groundwater discharges to a tributary and a creek, a potential threat exists to the environment within and surrounding those surface water bodies.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, South Carolina, Chromium, Ground water, Plumes, Aquifers, Subsurface flow, Environmental transport, Water pollution control, *Record of Decision, Pontiac(South Carolina), Richland County(South Carolina), Cleanup.

PB94-964003/REB Standing Order
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant Site, Paducah, KY., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 64p* EPA/ROD/R04-94/169
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected interim action for the North-South Diversion Ditch (NSDD) at the Paducah Gaseous Diffusion Plant (PGDP) in Paducah, Kentucky. The primary objective of this interim remedial action is to initiate control of the source of continued contaminant releases into the NSDD and mitigate the spread of contamination from the NSDD.

Keywords: *Superfund, *Hazardous materials, *Radioactive wastes, *Waste disposal, *Remedial action, Kentucky, Paducah Plant, Gaseous diffusion plants, Radioactive effluents, Surface waters, Soil contamination, Decontamination, Pollution control, *Record of Decision, Paducah(Kentucky), McCracken County(Kentucky), Diversion ditches, Cleanup.

PB94-964006/REB Standing Order
Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 57p* EPA/ROD/R04-94/172
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Piper Aircraft Site, in Vero Beach, Florida. This remedy addresses the contaminated ground water at the site. This remedy addresses the principal threat remaining at the site by extraction and treatment of groundwater contaminated with volatile organic compounds (VOCs),

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, Florida, Industrial wastes, Ground water, Aquifers, Water pollution control, *Record of Decision, Vero Beach(Florida), Indian Beach County(Florida), Cleanup, Volatile organic compounds.

PB94-964008/REB Standing Order
Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 186p* EPA/ROD/R04-94/174
See also PB91-921446.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the Operable Unit Three Remedial Action for the National Starch and Chemical Company Superfund Site in Salisbury, North Carolina. This Operable Unit is the third of four Operable Units for this Site. This Operable Unit and the fourth Operable Unit will address the contamination associated with the active production area of the National Starch and Chemical Company facility and the wastewater treatment lagoon area. This Operable Unit, Operable Unit No. 3, will permanently remove contaminants in the groundwater through groundwater extraction and on-site, above-ground treatment with the discharge of the treated groundwater to be combined with the facility's effluent to the City of Salisbury publicly owned treatment works.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Chemical plants, Industrial wastes, Ground water, Aquifers, Water pollution monitoring, North Carolina, *Record of Decision, *Third remedial action, Salisbury(North Carolina), Rowan County(North Carolina), Volatile organic compounds, Cleanup.

PB94-964009/REB Standing Order
Superfund Record of Decision (Region 4): General Tire Landfill Site, Mayfield, KY., October 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 80p* EPA/ROD/R04-94/175
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision presents the selected remedial action for the General Tire Landfill site, located in Mayfield, Graves County, Kentucky. Based on the data collected in the remedial investigation, and the potential current and future risks estimated in the Baseline Risk Assessment, no further action is necessary at this site to provide additional protection to human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Remedial action, *Water pollution monitoring, Kentucky, Landfills, Tires, Waste oils, Solid wastes, Solvents, Ground water, *Record of Decision, Mayfield(Kentucky), Graves County(Kentucky).

PB94-964012/REB Standing Order
Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 353p* EPA/ROD/R04-94/178
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Sangamo Weston/Twelvemile Creek/Lake Hartwell PCB Contamination Superfund Site - Operable Unit Two ('Sangamo OU2') in Pickens County, South Carolina. This action, Operable Unit Two, addresses the sediment, surface water, and biological migration pathways downstream from the source areas. This action addresses the primary PCB human exposure pathway by mitigating the consumption of PCB contaminated fish harvested from Lake Hartwell.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, South Carolina, Polychlorinated biphenyls, Sediments, Surface waters, Lake Hartwell, Food chains, Fishes, Environmental exposure pathway, Water pollution control, *Record of Decision, *Second remedial action, Pickens(South Carolina), Pickens County(South Carolina), Cleanup.

PB94-964013/REB Standing Order
Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 126p* EPA/ROD/R04-94/179
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Caldwell Lace Leather Site, located in Auburn, Kentucky. From 1972 until 1985, the Site received sludge and solid wastes generated by the Caldwell Lace Leather tannery facility located in Auburn, Kentucky. The Site is divided into two areas, one a landfill and the other a landfarm. Tanning-sludges and cowhide scraps were landfilled in unlined trenches or lagoons. Although EPA recommends that no Superfund action be taken, EPA does recommend that the Commonwealth of Kentucky or the current landfill owner continue groundwater/spring monitoring; and future land use restrictions be placed on the landfill property as well as maintenance of the landfill cover to prevent land use activities that would expose subsurface waste.

Keywords: *Superfund, *Hazardous materials, *Water pollution monitoring, Kentucky, Remedial action, Tanning materials, Leather, Hides, Sludges, Ground water, Springs(Water), Landfills, *Record of Decision, Auburn(Kentucky), Logan County(Kentucky), Tanneries.

PB94-964014/REB Standing Order
Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
8 Sep 93, 99p* EPA/ROD/R04-93/157
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Helena Chemical Superfund Site (the Site) in Fairfax, South Carolina. The remedial action addresses onsite soil contamination, the principal threat at this Site; as well as onsite and offsite groundwater contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Chemical wastes, Wetlands, Storm runoff, Ground water, Aquifers, Soil contamination, Water pollution, Land pollution, Remedial action, South Carolina, *Record of

Decision, Fairfax(South Carolina), Allendale County(South Carolina), Cleanup.

PB94-964015/REB Standing Order
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
10 Sep 93, 69p EPA/ROD/R04-93/162
See also PB93-964026.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Marine Corps Air Station (MCAS) Mercury Dump, Site 48. The remedial investigation (RI) and the risk assessments (RAs) conducted for Site 48 support a no action remedial alternative. The RI and RAs addressed all media at the site, and therefore, no other actions will be considered for Site 48. The selected remedy is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. The statutory preference for treatment is not satisfied because no treatment was necessary for the protection of human health and the environment. Contaminant levels detected in the media at the site were found to present no imminent or substantial threat to human health or the environment. A five-year review will not be necessary for the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Marine Corps facilities, Remedial action, Site characterization, North Carolina, *Record of Decision, Camp Lejeune, Jacksonville(North Carolina), Onslow County(North Carolina).

PB94-964016/REB Standing Order
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 27p EPA/ROD/R04-93/161
See also PB93-964026.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Marine Corps Air Station (MCAS) Mercury Dump, Site 48. The remedial investigation (RI) and the risk assessments (RAs) conducted for Site 48 support a no action remedial alternative. The RI and RAs addressed all media at the site, and therefore, no other actions will be considered for Site 48.

Keywords: *Superfund, *Hazardous materials, *Waste management, Marine Corps facilities, Mercury(Metal), Land pollution, Remedial action, Site characterization, North Carolina, *Record of Decision, Camp Lejeune, Jacksonville(North Carolina), Onslow County(North Carolina), Dumps.

PB94-964017/REB Standing Order
Superfund Record of Decision (EPA Region 4): T H Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 May 93, 56p EPA/ROD/R04-93/136
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document (Record of Decision), presents the selected remedial action for Operable Unit One for the T H Agriculture and Nutrition (THAN) Site, Albany, Georgia. This operable unit is the first of two that are planned for the Site. The first operable unit addresses the source of the contamination on the western parcel of the Site as well as the principle threat of groundwater contamination across the entire Site. While this remedy does address the principal threats at the Site, the second operable unit will involve continued study and remediation of a second source of contamination on the eastern parcel of the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Xylenes, Toxaphene, Dieldrin, DDT, Solvents, Pesticides, Chlorine organic compounds, Ground water, Aquifers, Plumes, Soil contamination, Water pollution monitoring, Water treatment, Land pollution, Restrictions, Georgia, *Record of Decision, Cleanup, First remedial action, Albany(Georgia), Dougherty County(Georgia), Nonaqueous phase liquids.

PB94-964018/REB Standing Order
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 52p EPA/ROD/R04-93/165
See also PB94-964003.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Northwest Plume at the Paducah Gaseous Diffusion Plant (PGDP) in Paducah, Kentucky. The primary objective of this interim remedial action is to initiate a first phase remedial action, as an interim action to initiate control of the source and mitigate the spread of contamination in the Northwest plume. This operable unit addresses a portion of the contaminated ground water. Additional interim actions associated with this integrator operable unit are being considered, as well as for other areas of contaminated ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, *Radioactive wastes, Paducah Plant, Gaseous diffusion plants, Trichloroethylene, Technetium 99, Radioisotopes, Ground water, Plumes, Remedial action, Kentucky, *Record of Decision, Paducah(Kentucky), McCracken County(Kentucky), Dense nonaqueous phase liquids, Cleanup.

PB94-964019/REB Standing Order
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 20p EPA/ROD/R04-93/164
See also PB93-964013, PB93-964023, and PB93-964024.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the selected final preventive action for the H-Area HWMF Operable Unit at the Savannah River Site (SRS). The selected final action remedy involved the stabilization and placement of all contaminated materials under a low permeability cap. This remedy prevents physical exposure to contaminants and mitigates further migration of contaminants to the groundwater by minimizing a liquid medium pathway (rainwater percolation) for transport. No further action is necessary for the unit. However, as a condition of the RCRA Hazardous Waste Permit, post closure groundwater monitoring is required to verify that no unacceptable exposures to potential hazards posed by conditions at the operable unit occur in the future.

Keywords: *Superfund, *Hazardous materials, *Waste management, Savannah River Plant, Ground water, Water pollution monitoring, Land pollution abatement, Capping, Site characterization, South Carolina, *Record of Decision, Aiken County(South Carolina), Seventh remedial action.

PB94-964020/REB Standing Order
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 21p EPA/ROD/R04-93/163
See also PB93-964013, PB93-964023, and PB93-964024.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the selected final preventive action for the F-Area HWMF Unit at the Savannah River Site (SRS). The selected final action remedy involved the stabilization and placement of all contaminated materials under a low permeability cap. This remedy prevents physical exposure to contaminants and mitigates further migration of contaminants to the groundwater by minimizing a liquid medium pathway (rainwater percolation) for transport, No further action is necessary for the unit. However, as a condition of the RCRA Hazardous Waste Permit, post closure groundwater monitoring is required to verify that no unacceptable exposures to potential hazards posed by conditions at the operable unit occur in the future.

Keywords: *Superfund, *Hazardous materials, *Waste management, Savannah River Plant, Ground water, Waste pollution monitoring, Capping, Land pollution abatement, Site characterization, South Carolina, *Record of Decision, Aiken County(South Carolina), Sixth remedial action.

PB94-964021/REB Standing Order
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 122p EPA/ROD/R04-93/166
See also PB92-964012, PB92-964013, PB92-964022, PB93-964010 and PB93-964025.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the K-1407-B Holding Pond and the K-1407-C Retention Basin, which are part of the K-1407 OU of the U.S. Department of Energy (DOE) K-25 Site in Oak Ridge, Tennessee. This final source control action is intended to reduce the potential threats to human health and the environment posed by residual metal, radiological, and volatile organic compound (VOC) contamination within the K-1407-B/C Ponds. The major components of the selected remedy for the K-1407-B/C Ponds include: placement of clean soil and rock fill for isolation and shielding, maintenance of institutional controls, and groundwater monitoring to assess performance of the action and to develop information for use in reviewing the effectiveness of this remedy.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, *Radioactive wastes, Oak Ridge Reservation, Metals, Cesium 137, Technetium 99, Ionizing radiation, Gamma radiation, Soil contamination, Dust, Land pollution, Ground water, Water pollution monitoring, Remedial action, Tennessee, *Record of Decision, Oak Ridge(Tennessee), Roane County(Tennessee), Volatile organic compounds, Trichloroethene, Cleanup.

PB94-964022/REB Standing Order
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 92, 25p EPA/ROD/R04-93/138
See also PB92-964013, PB94-964012, PB92-964022. PB93-964025, and PB93-964010.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of this interim remedial action is to reduce the potential threat to human health and the environment from the radiologically contaminated scrap and debris lying on the surface of Waste Area Grouping (WAG) 11. Contaminated surface debris that litters much of the surface of WAG 11 is a result of the intentional storage on the site of contaminated scrap, debris, and industrial waste. Measurement surveys of alpha, beta, and gamma radiation have revealed that contaminants are present on some of the debris in levels high enough to be of concern. Swipe sample analytical results have shown elevated concentration of Uranium 238, Cesium 137, and other isotopes. Results

of radiological surveys on the debris range from 0.5 mrad/h to 21 mrad/h. Physical hazards include sharp pieces of metal and broken glass on the ground surface.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Oak Ridge Reservation, Uranium 238, Cesium 137, Radioisotopes, Radioactive wastes, Radiation hazards, Debris, Decontamination, Remedial action, Tennessee, *Record of Decision, Cleanup, Oak Ridge(Tennessee).

PB94-964023/REB Standing Order
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 17, Oak Ridge, TN., October 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 92, 25p EPA/ROD/R04-93/137
See also PB92-964012, PB92-964013, PB92-964022, PB93-964010, and PB93-964025.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim remedial action for the ORNL WAG 13 in Oak Ridge, Tennessee. The purpose of this interim action is to reduce the risk to human health and the environment resulting from current elevated levels of gamma radiation on the site and at areas accessible to the public and adjacent to the site. To achieve this, only the cesium-contaminated soil within the plot will be addressed. This is not the final action planned for WAG 13. Subsequent actions are planned to fully address the remaining threats posed by the conditions at the site.

Keywords: *Superfund, *Hazardous materials, *Waste pollution, *Pollution control, *Radioactive wastes, Oak Ridge Reservation, Cesium, Low-level radioactive wastes, Gamma radiation, Soil contamination, Land pollution, Remedial action, Tennessee, *Record of Decision, Oak Ridge(Tennessee), Roane County(Tennessee), Cleanup.

PB94-964024/REB Standing Order
Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 74p* EPA/ROD/R04-93/152
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document (Record of Decision), presents the selected remedial action for Cold Creek Swamp (OU3) for the Stauffer Chemical (LeMoyne Plant) Superfund Site and the Stauffer Chemical (Cole Creek Plant) Superfund Site, Mobile County, Alabama. This operable unit is the third of four at the Stauffer Sites. Operable unit one was enumerated by a Record of Decision that was signed by EPA on September 27, 1989. Operable unit two addressed the migration of contaminants present in the surficial aquifer at the Site. Operable unit three, which is enumerated by this Record of Decision, addresses contamination at the Site in Cold Creek Swamp.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Thiocarbamates, Mercury(Metal), Metals, Chemical wastes, Soil contamination, Land pollution, Surface waters, Wetlands, Cold Creek Swamp, Fishes, Food chains, Water pollution monitoring, Restrictions, Alabama, *Record of Decision, Third remedial action, Mobile County(Alabama), Cleanup.

PB94-964025/REB Standing Order
Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 234p* EPA/ROD/R04-93/151
See also PB90-150947 and PB92-964006.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected final remedial action for the Second Operable Unit of the Smith's Farm Site, Brooks, Bullitt County, Kentucky. The function of this remedy is to reduce the risk associated with exposure to the (1) contaminated, on-site surface soils, (2) contaminated, on-site surface and ground waters, (3) contaminated, on-site stream sediments, and (4) contaminated, on-site leachate and leachate sediments.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Ethylbenzene, Xylene, Toluene, Benzene, Ketones, Metals, Leachate, Sediments, Soil contamination, Land pollution, Ground water, Surface waters, Water pollution, Kentucky, *Record of Decision, Shepherdsville(Kentucky), Bullitt County(Kentucky), Second remedial action, Volatile organic compounds, Cleanup.

PB94-964026/REB Standing Order
Superfund Record of Decision (EPA Region 4): Koppers (Morrisville Plant), Morrisville, NC., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 118p* EPA/ROD/R04-93/130
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Koppers Co., Inc. (Morrisville Plant) Superfund Site in Morrisville, North Carolina. A primary remedy and a contingency remedy have been selected for soils. The primary selection for soils, alternative S-9, will permanently remove and destroy contamination in the soil through treatment. Alternative GW-4 for groundwater will remove site-related contaminants in the groundwater through groundwater extraction and on-site treatment by carbon adsorption. Alternative SW-3 for surface water will remove site-related contaminants in the surface water by the dewatering of the ponds, backfilling with clean fill, and regarding the areas for proper drainage flow.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Phenols, Polychlorinated dibenzofurans, Polychlorinated dibenzodioxins, Soil contamination, Land pollution, Soil treatment, Ground water, Surface waters, Water pollution, Remedial action, North Carolina, *Record of Decision, Morrisville(North Carolina), Wake County(North Carolina), Dichlorophenols, Cleanup.

PB94-964027/REB Standing Order
Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
31 Aug 93, 58p* EPA/ROD/R04-93/150
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Rochester Property Superfund Site (the Site), located in Travelers Rest, Greenville County, South Carolina. This remedial action addresses groundwater contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Phthalates, Manganese, Ground water, Water pollution monitoring, Water treatment, Biodegradation, Remedial action, South Carolina, *Record of Decision, Travelers Rest(South Carolina), Greenville County(South Carolina), Trichloroethene, Bis(2-ethylhexyl)phthalate, Cleanup.

PB94-964028/REB Standing Order
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL., October 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 92, 48p* EPA/ROD/R04-93/134
See also PB94-964029.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Reeves Southeastern Corporation site in Hillsborough County, Florida. This operable unit is the first of two operable units planned for the site. The first operable unit for this site will involve the remediation of the soils/sediment on the site. This action will address the principal threat by solidifying/stabilizing the contaminated soils/sediment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Metals, Polychlorinated biphenyls, Polycyclic aromatic hydrocarbons, Trichlorobenzenes, Soil contamination, Sediments, Soil treatment, Florida, *Record of Decision, Cleanup, First remedial action, Tampa(Florida), Hillsborough County(Florida).

PB94-964029/REB Standing Order
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
9 Sep 93, 58p* EPA/ROD/R04-93/149
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Reeves Southeastern Corporation site in Hillsborough County, Florida. The second operable unit, the subject of this ROD, addresses the contamination in the Northern Surficial Aquifer. Potential ingestion of water extracted from this aquifer poses the principal threat to human health because EPA's acceptable risk range is exceeded and concentrations are greater than MCLs.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Heavy metals, Ground water, Aquifers, Water pollution monitoring, Remedial action, Florida, *Record of Decision, Hillsborough County(Florida), Cleanup.

PB94-964030/REB Standing Order
Superfund Record of Decision (EPA Region 4): Redwing Carriers/Saraland, Mobile County, AL., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
15 Dec 92, 102p* EPA/ROD/R04-93/133
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Redwing Carriers, Inc. (Saraland) Site (Redwing Site) is located in Mobile County, Alabama in the corporate limits of the City of Saraland. This remedy is the only and final remedial action for the site. The function of this remedy is to reduce the risks associated with exposure to contaminated soils, sediments, and ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Metals, Anthracene, Soil contamination, Sediments, Sludge, Ground water, Aquifers, Water pollution, Land pollution, Soil treatment, Water treatment, Remedial action, Alabama, *Record of Decision, Cleanup, Saraland(Alabama), Mobile County(Alabama), Volatile organic compounds.

PB94-964031/REB Standing Order
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Jun 93, 94p* EPA/ROD/R04-93/146
See also PB94-964032.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit One at the Peak Oil/Bay Drums Site in Brandon, Hillsborough County, Florida. The remedy selected by EPA for the Peak Oil/Bay Drums Site will be conducted in four separate operable units. Operable Unit One, which is addressed in this

Record of Decision, will address the source the contamination which represents a principal threat at the Peak Oil Site through an in-situ treatment alternative which includes process technologies that will treat impacted soils, sediments and the ash pile.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Pesticides, Metals, Polychlorinated biphenyls, Pyrenes, Xylenes, Ethyl benzene, Toluene, Polycyclic aromatic hydrocarbons, Soil contamination, Sediments, Ashes, Restrictions, Remedial action, Florida, *Record of Decision, Cleanup, Brandon(Florida), Hillsborough County(Florida), Tetrachloroethene, Volatile organic compounds, Semivolatile organic compounds.

PB94-964032/REB Standing Order
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 76p* EPA/ROD/R04-93/147
See also PB94-964031.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit Two at the Peak Oil/Bay Drums Site in Brandon, Hillsborough County, Florida. Operable Unit Two, which is addressed in this Record of Decision, will address the appropriate remediation for the groundwater of the southern surficial aquifer and the Upper Floridan Aquifer at the Peak Oil and Bay Drums Sites. The goal of the Operable Unit Two remedial action is to restore groundwater at the Peak Oil/Bay Drums Site to meet Federal and State drinking water standards. Both the southern surficial aquifer and the Upper Floridan Aquifer are included in the state-wide classification of potential future sources of drinking water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Drums(Containers), Ground water, Aquifers, Drinking water, Water pollution monitoring, Remedial action, Florida, *Record of Decision, Brandon(Florida), Hillsborough County(Florida), Volatile organic compounds, Floridan Aquifer, Cleanup.

PB94-964033/REB Standing Order
Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
28 Sep 93, 97p* EPA/ROD/R04-93/158
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Kalama Specialty Chemical, Inc., Superfund Site (the Site) in Beaufort, South Carolina. This remedial action addresses on-site groundwater contamination, as well as on-site soil and sediment contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Metals, Soil contamination, Sediments, Ground water, Land pollution, Water pollution monitoring, Remedial action, Soil treatment, Water treatment, South Carolina, *Record of Decision, Beaufort(South Carolina), Beaufort County(South Carolina), Volatile organic compounds, Cleanup.

PB94-964034/REB Standing Order
Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 61p* EPA/ROD/R04-93/145
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Para-Chem Southern, Inc. Superfund Site (the Site) in Simpsonville, South Carolina. This remedial action addresses on-Site and off-Site groundwater contamination, the principal threat at this Site; as well as on-Site sludge contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Organic compounds, Sludge, Soil contamination, Ground water, Land pollution, Water pollution, Remedial action, South Carolina, *Record of Decision, Simpsonville(South Carolina), Greenville County(South Carolina), Cleanup.

PB94-964035/REB Standing Order
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
31 Mar 93, 60p* EPA/ROD/R04-93/148
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit Three at the Peak Oil/Bay Drums site in Brandon, Hillsborough County, Florida. The Peak Oil and Bay Drums sites were ranked on the National Priorities List (NPL) as one site because of their close proximity and indiscriminate waste disposal practices which resulted in the contamination of adjacent surface water and groundwater. Operable Unit Three, presented in this Record of Decision, will address the source of contamination at the Bay Drums site, which constitutes a principal threat.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Lead(Metal), Pesticides, Chlordan, Polychlorinated biphenyls, Sediments, Soil contamination, Ground water, Land pollution, Soil treatment, Water pollution monitoring, Restrictions, Capping, Remedial action, Florida, *Record of Decision, Cleanup, Brandon(Florida), Hillsborough County(Florida), Volatile organic compounds.

PB94-964036/REB Standing Order
Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
19 Feb 93, 152p* EPA/ROD/R04-93/132
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected Interim Remedial Action for the National Southwire Aluminum Company (NSA) Site, approximately four miles northwest of Hawesville, Hancock County, Kentucky. This Interim Remedial Action employs the use of extraction wells combined with a pump and treat system in order to prevent further ground water plume migration, to reduce contaminants in the Ohio River Valley alluvial aquifer at the Site, and to reduce the threat of additional contamination of the Ohio River. This action will also initiate ground water restoration while the Remedial Investigation and Feasibility Study (RI/FS) and post RI/FS activities are being completed. Onsite contamination identified in the unconsolidated alluvial aquifer consists of cyanide, metals, and fluoride in two onsite ground water plumes. Leachate identified in the onsite landfills contains the above contaminants as well as volatile and semi-volatile organics, and polychlorinated biphenyls (PCBs).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Cyanide, Metals, Fluoride, Polychlorinated biphenyls, Leachate, Ground water, Aquifers, Plumes, Ohio River, Water treatment, Remedial action, Kentucky, *Record of Decision, Hawesville(Kentucky), Hancock County(Kentucky), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-964037/REB Standing Order
Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 92, 80p* EPA/ROD/R04-93/135
See also PB92-964019.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Sherwood Medical Site in Deland, Florida. The remedy selected in this ROD addresses site soils and groundwater that have been contaminated as a result of past waste disposal activities at the Sherwood Medical Site. The selected remedy continues operation of the pump and treat system installed as part of the previous action and adds additional requirements.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Chromium, Arsenic, Lead(Metal), Metals, Tetrachloroethylene, Soil contamination, Ground water, Lake Miller, Wetlands, Surface waters, Aquifers, Land pollution, Water pollution monitoring, Restrictions, Remedial action, Florida, *Record of Decision, Cleanup, Deland(Florida), Volusia County(Florida), Volatile organic compounds, Trichloroethene, Floridan Aquifer.

PB94-964038/REB Standing Order
Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 22p* EPA/ROD/R04-93/156
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Geiger (C & M Oil) Site, in Rantowles, South Carolina. This decision addresses the principal threat remaining at the Site by treating the most highly contaminated soils and ground-water. The soils will be treated in situ using solidification/stabilization, such that the Site's soils will not require any long-term management. The contaminated ground-water will be extracted, treated on-site, and disposed of either on-site or off-site. Treated ground-water will be disposed of either to an on-site stream which flows off-site or to the same stream off-site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Lead(Metal), Chromium, Polycyclic aromatic hydrocarbons, Polychlorinated biphenyls, Dichloroethylenes, Toluene, Benzenes, Benzanthracenes, Benzo(a)pyrene, Soil contamination, Land pollution, Soil treatment, Ground water, Water pollution, Water treatment, Remedial action, South Carolina, *Record of Decision, Cleanup, Rantowles(South Carolina), Charleston County(South Carolina), Dichloroethane, Benzofluoranthene.

PB94-964039/REB Standing Order
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Jacksonville, NC., January 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 93, 73p* EPA/ROD/R04-93/128
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the ABC One-Hour Cleaners Site, Operable Unit No. 1: Groundwater in Jacksonville, North Carolina. This remedy addresses the groundwater contamination at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Septic tanks, Sludges, Vinyl chloride, Tetrachloroethylene, Ground water, Aquifers, Water pollution monitoring, Restrictions, Remedial action, North Carolina, *Record of Decision, Cleanup, Jacksonville(North Carolina), Onslow County(North Carolina), Trichloroethene, Dichloroethene, Castle Hayne Aquifer.

PB94-964040/REB Standing Order
Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Apr 93, 121p* EPA/ROD/R04-93/142
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Elmore Waste Disposal Superfund Site (the Site) in Greer, South Carolina. The remedial action addresses onsite soil contamination, the principal threat at this Site; as well as onsite and offsite groundwater contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Furans, Dioxins, Pesticides, Metals, Soil contamination, Land pollution, Ground water, Water pollution, Water treatment, Environmental monitoring, Remedial action, South Carolina, *Record of Decision, Cleanup, Greer(South Carolina), Spartanburg County(South Carolina), Volatile organic compounds, Semivolatile organic compounds.

PB94-964041/REB Standing Order
Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 127p* EPA/ROD/R04-93/140
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document represents the selected remedial action for the Anodyne, Inc. Site (the Site), located in an unincorporated portion of Dade County, Florida near the city of North Miami Beach, This remedy is the first, and is intended to be the final, remedial action at the site. The remedial action is intended to reduce risks to human health by abating the threat posed by the contaminated groundwater. The response action should reduce risks to human health by collecting and treating contaminated groundwater to levels consistent with federal and state drinking water standards.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Coal tar, Pesticides, Polychlorinated biphenyls, Chlorinated hydrocarbons, Metals, Ground water, Aquifers, Water treatment, Water pollution monitoring, Florida, *Record of Decision, Cleanup, First remedial action, North Miami Beach(Florida), Dade County(Florida), Volatile organic compounds, Semivolatile organic compounds.

PB94-964042/REB Standing Order
Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 44p* EPA/ROD/R04-93/154
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Chemform, Inc. Site in Pompano Beach, Florida. This remedy applies to Operable Unit Two at the site which pertains to the site-related soil contamination. Due to an extensive cleanup of the site related contaminant sources, and a significant reduction in soil contaminant levels, no further Superfund action is necessary to address Operable Unit Two at the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Metals, Organic compounds, Soil contamination, Land pollution, Site characterization, Florida, *Record of Decision, Second remedial action, Pompano Beach(Florida), Broward County(Florida).

PB94-964043/REB Standing Order
Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 86p* EPA/ROD/R04-93/143
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document (Record of Decision), represents the selected remedial action for the Firestone Tire & Rubber Company 'Site', Albany, Dougherty County, Georgia. This final remedy addresses remediation of soils and groundwater contamination by eliminating or reducing the risks posed by the Site, through treatment, engineering and institutional controls.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polychlorinated biphenyls, Metals, Xylenes, Benzenes, Phthalates, Toluene, Acetone, Pyrene, Soil contamination, Land pollution, Ground water, Water pollution, Water treatment, Restrictions, Remedial action, Georgia, *Record of Decision, Cleanup, Albany(Georgia), Dougherty County(Georgia), Volatile organic compounds, Semivolatile organic compounds.

PB94-964044/REB Standing Order
Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 84p* EPA/ROD/R04-93/155
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the FCX Washington Site in Washington, Beaufort County, North Carolina. This remedy addresses the principle threat of contaminated groundwater emanating from beneath the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Chemical plants, Polycyclic aromatic hydrocarbons, Phthalates, Metals, Pesticides, DDD, DDE, DDT, Ground water, Aquifers, Water treatment, Remedial action, North Carolina, *Record of Decision, Cleanup, Beaufort County(North Carolina), Washington(North Carolina), Volatile organic compounds, Semivolatile organic compounds.

PB94-964045/REB Standing Order
Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 83p* EPA/ROD/R04-93/139
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the Operable Unit One Remedial Action for the FCX-Statesville Superfund Site (the 'Site') in Iredell County, North Carolina. The Operable Unit One Remedial Action addresses a portion of the groundwater contamination at the Site. The major threat is the contaminated groundwater emanating from beneath the Site. The next two phases of cleanup, known as Operable Units Two and Three, will address contaminated soil at the Site and all other soil, surface water/sediment, and groundwater identified during the Operable Unit Three Remedial Investigation/Feasibility Study.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, DDE, DDD, DDT, Pesticides, Polycyclic aromatic hydrocarbons, Organic compounds, Lead(Metal), Chromium, Metals, Ground water, Water pollution monitoring, Water treatment, Restrictions, North Carolina, *Record of Decision, Statesville(North Carolina), Iredell County(North Carolina), First remedial action, Cleanup.

PB94-964046/REB Standing Order
Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 91p* EPA/ROD/R04-93/153
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the U.S. Environmental Protection Agency's (EPA) selected Remedial Action (RA) for the Beulah Landfill Site. The Baseline Risk Assessment and the comparison of exposure concentrations to chemical-specific standards indicates that there is no unacceptable risk to human health or the environment at the Site. Therefore, no action is necessary to ensure the protection of human health or this environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Pentachlorophenol, Ground water, Water pollution monitoring, Remedial action, Site characterization, Florida, *Record of Decision, Pensacola(Florida), Escambia County(Florida).

PB94-964047/REB Standing Order
Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 93, 90p* EPA/ROD/R04-93/129
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document (Record of Decision), presents the selected remedial action for the Cedartown Industries Site, Cedartown, Georgia. This action is the first and final action planned for the Site. This alternative calls for the design and implementation of response measures which will protect human health and the environment. The action addresses the principal threat at the Site, the contaminant sources in the soil, as well as the localized groundwater contamination at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Cadmium, Beryllium, Antimony, Arsenic, Lead(Metal), Metals, Soil contamination, Ground water, Land pollution, Water pollution monitoring, Soil treatment, Georgia, *Record of Decision, Cleanup, First remedial action, Cedartown(Georgia), Polk County(Georgia).

PB94-964048/REB Standing Order
Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 60p* EPA/ROD/R04-93/131
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document (Record of Decision) presents the selected remedial action for the Mathis Brothers - South Marble Top Road Landfill site, Walker County, Georgia. At this time the remedial action is proposed as both the first, and the final remedial action for the site. The function of this remedy is to treat contamination and reduce it to health based levels. Source material and contaminated soils are the principal threat at the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Herbicides, Chemical wastes, Metals, Soil contamination, Sediments, Land pollution, Surface waters, Ground water, Water pollution, Capping, Georgia, *Record of Decision, Cleanup, First remedial action, Kensington(Georgia), Walker County(Georgia), Volatile organic compounds, Semivolatile organic compounds.

PB94-964049/REB Standing Order
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 85p* EPA/ROD/R04-93/160
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Unit Two (OU2) at the O-Line Ponds Area, Milan Army Ammunition Plant, Milan, Tennessee. The goal of the overall cleanup activities at the site is to prevent migration of contaminants from soil at the site and to prevent exposures to these contaminants, so that no adverse health effects will result from current or future off-post or on-post use. Soil contaminated with explosives compounds is known to exist in the O-Line Ponds area, and under current conditions, this contamination poses a potential threat to groundwater at the site. Currently contaminated groundwater is being addressed by separate remedial actions under different Operable Units (OUs).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Army facilities, Munitions industry, Explosives, TNT, RDX, Nitrobenzenes, Soil contamination, Sediments, Land pollution, Ground water, Water pollution monitoring, Remedial action, Tennessee, *Record of Decision, Cleanup, Milan Army Ammunition Plant, Milan(Tennessee), Gibson County(Tennessee), O-Line Ponds.

PB94-964050/REB Standing Order
Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Apr 93, 124p* EPA/ROD/R04-93/141
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Bypass 601 Groundwater Contamination Site in Concord, Cabarrus County, North Carolina. This remedy addresses the principle threats posed by the Site. The major threat is the contaminated groundwater emanating from beneath the Site. This remedial action will also address the threat from soil contamination.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Benzene, Sulfates, Metals, Ground water, Water treatment, Soil contamination, Land pollution control, Soil treatment, Remedial action, North Carolina, *Record of Decision, Cleanup, Concord(North Carolina), Cabarrus County(North Carolina), Volatile organic compounds, Semivolatile organic compounds.

PB94-964051/REB Standing Order
Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 95p* EPA/ROD/R04-94/180
See also PB86-133931.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document (Record of Decision), presents the selected remedial action for the Davie Landfill Site, Davie, Broward County, Florida. This action is the second and final action planned for the Site. This action addresses ground water contamination at the Site and calls for the implementation of response measures which will protect human health and the environment. The selected remedy relies on natural attenuation of vinyl chloride and antimony. A ground water monitoring program would be performed to ensure that attenuation is effective.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Antimony, Vinyl chloride, Pesticides, Metals, Ground water, Water pollution monitoring, Site characterization, Florida, *Record of Decision, Davie(Florida), Broward County(Florida), Volatile organic compounds, Semivolatile organic compounds, Second remedial action.

PB94-964052/REB Standing Order
Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 59p* EPA/ROD/R04-94/181
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Basic Microelectronic, Incorporated (BMI)-Textron Site (BMI-Textron Site or the Site), in Lake Park, Florida. This remedy addresses the contaminated principal threat of ground water at the Site. This remedy addresses the principal threat remaining at the Site, by using existing institutional controls, and monitoring ground water contaminated with arsenic, cyanide, sodium and fluoride.

Keywords: *Superfund, *Waste management, *Hazardous materials, Arsenic, Cyanide, Sodium, Fluoride, Ground water, Water pollution monitoring, Remedial action, Site characterization, Florida, *Record of Decision, Lake Park(Florida), Palm Beach County(Florida).

PB94-964053/REB Standing Order
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 65p* EPA/ROD/R04-94/182
See also PB94-964039.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The response action at this Site was divided into two units or phases, referred to as operable units. OU-2, the subject of this ROD, addresses the soil contamination at the Site. The intent of this response action is to remove the principal threat remaining at the Site by treating the contaminated soils. Treating the soil will also prevent the contaminants from adversely impacting the groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Sludge, Septic tanks, Vinyl chloride, Chloroform, Soil contamination, North Carolina, *Record of Decision, Cleanup, Second remedial action, Jacksonville(North Carolina), Onslow County(North Carolina), Volatile organic compounds, Dichloroethene, Perchloroethene.

PB94-964054/REB Standing Order
Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 20p* EPA/ROD/R04-94/183
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the decision for no further action for the Abandoned Nitric Acid Pipeline at the Oak Ridge Y-12 Plant in Oak Ridge, Tennessee. The baseline risk assessment, conducted as part of the Remedial Investigation (RI) for the site, indicates that conditions related to the Abandoned Nitric Acid Pipeline do not pose an unacceptable threat to human health or the environment. The total carcinogenic risks to either workers or future homesteaders at the Abandoned Nitric Acid Pipeline from all pathways are below 10 to the minus 4 power, the U.S. Environmental Protection Agency's thresholds of concern for remedial action. Noncarcinogenic hazard indices are below the action level of 1.0 established by the U.S. Environmental Protection Agency.

Keywords: *Superfund, *Hazardous materials, *Waste management, Pipelines, Uranium isotopes, Metals, Molybdenum, Nickel, Beryllium, Nitrates, Nitrites, Soil contamination, Land pollution, Site characterization, Remedial action, Tennessee, *Record of Decision, Oak Ridge(Tennessee), Anderson County(Tennessee), Hexavalent chromium, Nickel salts.

PB94-964055/REB Standing Order
Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 74p* EPA/ROD/R04-94/184
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The 2,200-acre Alabama Army Ammunition Plant (AAAP) site was located in Talladega County, Alabama, near the junction of Talladega Creek and the Coosa River. AAAP was built in 1941 as a government-owned and contractor-operated facility that produced nitrocellulose, nitroaromatic explosives, and 2,4,6-trinitrophenyl methyl nitramine. In 1978, the U.S. Army's Toxic and Hazardous Materials Agency (USATHAMA), managing the Army's Installation Restoration Program (IRP), identified soil, sediment, and ground water potentially contaminated by explosives, asbestos, and lead as a result of past site operations. This remedial action describes remedial action for soil and sediment contaminated by explosives (DNT, TNT, nitrotoluenes, and nitrobenzenes) and metals (mostly lead).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Army facilities, Munitions industry, Explosives, Metals, Lead(Metal), DNT, TNT, Nitrotoluenes, Nitrobenzenes, Soil contamination, Land pollution, Installation restoration, Remedial action, Alabama, *Record of Decision, Cleanup, Alabama Army Ammunition Plant, Childersburg(Alabama), Talladega County(Alabama).

PB94-964056/REB Standing Order
Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 85p* EPA/ROD/R04-94/185
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the B&B Chemical Superfund Site in Hialeah, Dade County, Florida. It is EPA's judgement that the selected remedy will address the principal threats posed by the environmental conditions at this site. The major components of the selected remedy include: Natural attenuation; Groundwater monitoring in order to verify the achievement of the maximum contaminant levels (MCLs) and; Institutional controls

Keywords: *Superfund, *Hazardous materials, *Waste management, Chromium, Chlorobenzene, Benzene, Vinyl chloride, Ground water, Water pollution monitoring, Site characterization, Remedial action, Florida, *Record of Decision, Hialeah(Florida), Dade County(Florida).

PB94-964057/REB Standing Order
Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, FL., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
1 Sep 94, 40p* EPA/ROD/R04-94/186
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The site name is the Golf Course Pesticide Disposal Area, Site 11, Operable Unit (OU) 6. The site is located in a wooded area between the 11th fairway and the 17th green at the Naval Air Station (NAS) Cecil Field golf course, Jacksonville, Florida. The purpose of the interim remedial action is to remove buried containers of pesticides and associated contaminated soil.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval Air Stations, Pesticides, Containers, Debris, Methylene chloride, Toluene, Chromium, Lead(Metal), Metals, Soil contamination, Land pollution, Remedial action, Florida, *Record of Decision, Cleanup, Cecil Field, Jacksonville(Florida), Duval County(Florida), Volatile organic compounds.

PB94-964058/REB Standing Order
Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 42p* EPA/ROD/R04-94/187
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the selected final action for the Tank 105-C HWMF Unit and the immediately adjacent soils at the Savannah River Site (SRS). Previous action taken at the Tank 105-C HWMF was under a RCRA Closure Plan approved by the State of South Carolina and was protective of human health and the environment. Therefore, no further remedial action is necessary under CERCLA. To ensure continued protection of human health and the environment, this action will be reviewed every 5 years, consistent with the requirements of the NCP.

Keywords: *Superfund, *Hazardous materials, *Waste management, Savannah River Plant, Tritium, Radiation hazards, Radioactive wastes, Radioisotopes, Ground water, Water pollution, Neutralization, Soil contamination, Land pollution, Environmental monitoring, Remedial action, Site characterization, South Carolina, *Record of Decision, Aiken County(South Carolina).

PB94-964101/REB Standing Order
Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 51p* EPA/ROD/R05-94/247
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Perham Arsenic Burial Site. The selected remedial action for the Perham Arsenic Burial Site addresses the source of the contamination by remediation of groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, Minnesota, Pesticides, Arsenic, Arsenates, Lead(Metal), Ground water, Water pollution control, Water treatment, *Record of Decision, Perham(Minnesota), Otter Tail County(Minnesota), Lead arsenate, Cleanup.

PB94-964102/REB Standing Order
Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 66p* EPA/ROD/R05-94/248
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the J&L Landfill, in Rochester Hills, Michigan. The purpose of this remedy is to reduce the risks associated with exposure to the contaminated materials and to reduce the potential for migration of contaminants to the groundwater. The selected remedy for OU1 consists of a 1-foot compacted clay layer overlain with a Geosynthetic Clay Liner (GCL)/60 mil Flexible Membrane Liner (FML) barrier layer, a drainage layer consisting of geonet with geotextile filter fabric, a 36-inch clean fill layer, and a 6-inch topsoil layer; consolidation of the contaminated soil and sediments from the east ditch; and monitoring of the contaminated groundwater beneath the site. In addition, a proper slope will be constructed and maintained so that all surface water runoff properly drains off the cap into a collection system, or drainage ditches around the perimeter of the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Metals, Nickel, Chromium, Manganese, Industrial wastes, Soil contamination, Sediments, Land pollution, Environmental monitoring, Runoff, Remedial action, Capping, Michigan, *Record of Decision, Rochester Hills(Michigan), Oakland County(Michigan), Cleanup.

PB94-964103/REB Standing Order
Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 83p* EPA/ROD/R05-93/239
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Himco Dump Site, Elkhart, Indiana. The purpose of the remedy is to eliminate or reduce migration of contaminants to the groundwater and to reduce the risks associated with exposure to the contaminated materials. The major components of the selected remedy include: construction of a composite barrier, solid waste landfill cover (cap); use of institutional controls on landfill property to limit land and groundwater use; installation of an active landfill gas collection system including a vapor phase carbon system to treat the off-gas from the landfill; an enclosed ground flare system will be implemented if landfill gas characterization studies indicate VOC emissions exceed ARARs (Indiana Administrative Code 326 IAC); and monitoring of groundwater to ensure effectiveness of the remedial action and to evaluate the need for future groundwater treatment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Landfills, Ground water, Water pollution monitoring, Methane, Remedial action, Indiana, *Record of Decision, Dumps, Elkhart(Indiana), Elkhart County(Indiana), Landfills, Volatile organic compounds, Cleanup.

PB94-964104/REB Standing Order
Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 53p EPA/ROD/R05-93/228
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Wash King Laundry Superfund site in Baldwin, Pleasant Plains Township, Michigan. The groundwater remedial action consists of the following: groundwater monitoring; deed restrictions; and groundwater extraction with physical/chemical treatment. The lagoon remedial action consists of the following: excavation of contaminated sediments and soils and off-site disposal.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Lagoons, Pesticides, Metals, Boron, Ground water, Sediments, Land pollution control, Water pollution monitoring, Restrictions, Remedial action, Michigan, *Record of Decision, Cleanup, Baldwin(Michigan), Pleasant Plains Township(Michigan), Lake County(Michigan), Volatile organic compounds, Semivolatile organic compounds.

PB94-964105/REB Standing Order
Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 51p EPA/ROD/R05-93/245
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Source Control Operable Unit, Landfills 8 and 10, at Wright Patterson AFB. Landfills 8 and 10 comprise the first of twelve operable units identified for cleanup at Wright-Patterson AFB, Ohio. The ROD addresses the sources of the contamination and any threat posed by migration of cotamination to groundwater beneath Landfills 8 and 10, the principle threats to the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Air force facilities, Landfills, Dioxins, Metals, Cyanide, Pesticides, Polychlorinated biphenyls, Methane, Leachate, Ground water, Soil contamination, Water pollution, Environmental monitoring, Capping, Restrictions, Remedial action, Ohio, *Record of Decision, Cleanup, Wright-Patterson Air Force Base, Green County(Ohio), Volatile organic compounds, Landfill gases.

PB94-964106/REB Standing Order
Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Jun 93, 166p EPA/ROD/R05-93/229
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document represents the United States Environmental Protection Agency's (U.S. EPA) selected remedial action for the Woodstock Municipal Landfill (Woodstock) site located in Woodstock, Illinois. This remedy is intended to be the final action for the site. The remedy addresses all contaminated media and includes: contaminated soil, sediment, and groundwater, landfilled wastes, leachate generation and emission of landfill gases.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Open dumps, Metals, Methane, Soil contamination, Sediments, Leachate, Ground water, Land pollution, Water pollution, Capping, Restrictions, Illinois, *Record of Decision, Cleanup, First remedial action, Woodstock(Illinois), McHenry County(Illinois), Landfill gases, Volatile organic compounds, Semivolatile organic compounds.

PB94-964107/REB Standing Order
Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 108p* EPA/ROD/R05-93/244
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Powell Road Landfill in Huber Heights, Ohio. The remedial action will be a final site-wide remedy. The selected remedial action addresses the sources of the contamination by containment of the landfill and contaminated soils and treatment of leachate and ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Strontium, Metals, Cyanide, Methane, Soil contamination, Leachate, Ground water, Land pollution, Water pollution, Water treatment, Restrictions, Remedial action, Ohio, *Record of Decision, Cleanup, Huber Heights(Ohio), Montgomery County(Ohio), Volatile organic compounds, Semivolatile organic compounds.

PB94-964108/REB Standing Order
Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Sep 93, 52p* EPA/ROD/R05-93/243
See also PB90-138405 and PB91-921455.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Ott/Story/Cordova site, in North Muskegon, Michigan. This remedy is the third of three operable units selected for the Ott/Story/Cordova site and consists of a remedy for the contaminated soils and sediments. The primary goals of this selected remedial action at the Ott/Story/Cordova site are to reduce infiltration into contaminated soils which may add to the burden of groundwater contamination to be dealt with by Operable Units One and Two and to reduce the health and environmental risks associated with exposure to such contaminated materials.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Benzenes, Toluene, Pesticides, Phthalates, Polychlorinated biphenyls, Soil contamination, Sediments, Soil treatment, Remedial action, Michigan, *Record of Decision, Cleanup, North Muskegon(Michigan), Muskegon County(Michigan), Dalton Township(Michigan), Volatile organic compounds.

PB94-964109/REB Standing Order
Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 99p* EPA/ROD/R05-93/237
See also PB93-964115.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the CERCLA Areas operable unit at the Reilly Tar and Chemical Site (the Site) in Indianapolis, Indiana. This operable unit action is the second of four planned for the Site. It specifically outlines an action to address five on-site sources of soil and groundwater contamination, which have been determined by the Remedial Investigation to pose unacceptable risks to human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Chemical wastes, Sludge, Metals, Polycyclic aromatic hydrocarbons, Phthalates, Benzene, Ammonia, Ethyl benzene, Trichloroethylene, Pyridines, Soil contamination, Ground water, Land pollution, Water pollution, Indiana, *Record of Decision, Cleanup, Second remedial action, Indianapolis(Indiana), Marion County(Indiana), Volatile organic compounds.

PB94-964110/REB Standing Order
Superfund Record of Decision (EPA Region 5): Muskegon Chemical, Whitehall, MI., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 33p* EPA/ROD/R05-93/240
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim response action for the Muskegon Chemical Company Site in the city of Whitehall and Fruitland Township, Muskegon County, Michigan. This interim response action addresses the contaminated groundwater plume in the vicinity of Mill Pond Creek. The Engineering Evaluation and Cost Analysis Report for the Muskegon Chemical Company site identified the area where contaminated groundwater discharges to the surface waters of Mill Pond Creek as an area of concern.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Chemical wastes, Organic compounds, Ground water, Plumes, Mill Pond Creek, Surface waters, Water pollution, Remedial action, Michigan, *Record of Decision, Whitehall(Michigan), Muskegon County(Michigan), Cleanup.

PB94-964111/REB Standing Order
Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
29 Jun 93, 22p* EPA/ROD/R05-93/227
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim remedial action for the contaminated groundwater for the Spartan Chemical site in Wyoming, Kent County, Michigan. The interim remedial action for the groundwater consists of the following: Evaluation of the existing groundwater collection and treatment system and of discharge options available for the treated groundwater. The evaluation process may result in modifications to the existing treatment system and/or relocation of the discharge point; Restart of the existing groundwater collection and treatment system; and Groundwater monitoring to evaluate the effectiveness of the groundwater collection and treatment system.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Tetrachloroethylene, Trichloroethylene, Toluene, Methylene chloride, Chlorinated hydrocarbons, Benzene, Ethylbenzene, Dichloroethylenes, Xylene, Ground water, Water treatment, Water pollution monitoring, Remedial action, Michigan, *Record of Decision, Wyoming(Michigan), Kent County(Michigan), Cleanup.

PB94-964112/REB Standing Order
Superfund Record of Decision (EPA Region 5): Lakeland Disposal Service, Claypool, IN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 68p* EPA/ROD/R05-93/235
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the United States Environmental Protection Agency's (U.S. EPA) selected remedial action for the Lakeland Disposal Service, Inc. Landfill Superfund Site near Claypool, Indiana. This remedy is intended to be the final action for the site. This remedy addresses all contaminated media at the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Debris, Drums(Containers), Inorganic compounds, Metals, Soil contamination, Land pollution, Ground water, Water pollution, Water treatment, Capping, Restrictions, Remedial action, Indiana, *Record of Decision, Claypool(Indiana), Kosciusko County(Indiana), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-964114/REB Standing Order
Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 44p* EPA/ROD/R05-93/246
See also PB90-178872.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for addressing groundwater contamination at operable unit 1 (OU-1) of the New Brighton/Arden Hills Superfund Site in Ramsey County, Minnesota. The NB/AH site has been divided into three operable units. The first operable unit, OU-1, addressed by the remedy selected in this ROD, consists of the North Plume of off-TCAAP contaminated groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Army facilities, Ground water, Plumes, Water wells, Water treatment, Remedial action, Minnesota, *Record of Decision, Twin Cities Army Ammunition Plant, New Brighton(Minnesota), Ramsey County(Minnesota), Volatile organic compounds, Cleanup.

PB94-964115/REB Standing Order
Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 45p* EPA/ROD/R05-93/226
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial actions for the Disposal Pit Area Operable Unit (DPA-OU) on the MacGillis and Gibbs Co. portion of the site. The MacGillis and Gibbs Co. portion of the site is separated into three operable units, the first designated for state-lead activities, the second two for federal-lead activities. Operable Unit 1 (DPA-OU) is defined as the waste material, debris, contaminated soils and sediments in the disposal pit area.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Ground disposal, Debris, Polycyclic aromatic hydrocarbons, Chromium, Arsenic, Pentachlorophenol, Fly ash, Ground water, Water treatment, Soil contamination, Land pollution control, Restrictions, Minnesota, *Record of Decision, Cleanup, First remedial action, New Brighton(Minnesota), Ramsey County(Minnesota).

PB94-964116/REB Standing Order
Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 107p* EPA/ROD/R05-93/232
Portion of this document are not fully legible.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Sanitary Landfill Company (IWD) site, in Moraine, Ohio. This is the first and only operable unit for the site. The selected remedial alternative for the Sanitary Landfill Company (IWD) site is to perform active landfill gas collection and treatment, cover the landfill with a low permeability cap and undertake other actions required by State sanitary landfill closure requirements.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sanitary landfills, Cyanide, Metals, Methane, Ground water, Water pollution monitoring, Land pollution, Environmental monitoring, Capping, Remedial action, Ohio, *Record of Decision, Cleanup, Moraine(Ohio), Montgomery County(Ohio), Landfills, Volatile organic compounds, Semivolatile organic compounds.

PB94-964117/REB Standing Order
Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 33p* EPA/ROD/R05-93/231
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the American Anodco site, in Ionia, Michigan. EPA has determined that conditions at the site due to contamination by inorganic chemicals pose no current or potential threat to human health or the environment. While the American Anodco site does appear to exhibit trace amounts of inorganic contamination which result in slightly elevated calculations of potential future risk from exposure to the groundwater, EPA has also determined that the presence of these compounds does not appear to pose an unacceptable risk to human health or the environment since the levels are below Maximum Contaminant Levels (MCLs). Accordingly, no further remedial action will be undertaken. However, monitoring of the inorganic contaminants in the groundwater will continue for a period of twenty-four months.

Keywords: *Superfund, *Hazardous materials, *Waste management, Inorganic compounds, Metals, Phosphates, Chemical wastes, Industrial wastes, Ground water, Water pollution monitoring, Remedial action, Site characterization, Michigan, *Record of Decision, Ionia(Michigan), Ionia County(Michigan).

PB94-964118/REB Standing Order
Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 24p* EPA/ROD/R05-93/236
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Ground Water Operable Unit at the Packaging Corporation of America site, in Filer City, Michigan. EPA has determined that conditions at the site pose no current or potential unacceptable risk to human health or the environment. While the Packaging Corporation of America site does appear to exhibit elevated levels of heavy metals and some organics, calculations of potential future risk indicate that the contamination does not appear to pose an unacceptable risk to human health or the environment. Accordingly, no remedial action for the ground water operable unit is necessary to ensure protection of human health and the environment. EPA will however, continue to monitor Manistee Lake and the contaminants in the groundwater until the contaminanted plume has fully discharged into the lake.

Keywords: *Superfund, *Hazardous materials, *Waste management, Heavy metals, Organic compounds, Ground water, Plumes, Surface waters, Manistee Lake, Water pollution monitoring, Remedial action, Site characterization, Michigan, *Record of Decision, Filer City(Michigan), Manistee County(Michigan).

PB94-964119/REB Standing Order
Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 30p* EPA/ROD/R05-93/241
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Mason County Landfill, in Ludington, Michigan. EPA has determined that no further remedial action is necessary at this site. Therefore, the site now qualifies for inclusion in the sites awaiting deletion subcategory of the Construction Completion category of the National Priorities List.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Organic compounds, Industrial wastes, Municipal wastes, Environmental monitoring, Remedial action, Site characterization, Michigan, *Record of Decision, Ludington(Michigan), Mason County(Michigan).

PB94-964120/REB Standing Order
Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 56p* EPA/ROD/R05-93/224
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected ground water operable unit remedial action for the East Bethel Landfill Site in East Bethel, Minnesota. This operable unit is the first of two operable units for the site. The operable unit described in this decision document addresses ground water contamination. The remedy selected for ground water contamination consists of withdrawal of contaminated ground water, treatment of ground water, and discharge of treated water, as well as continued monitoring of the contaminated aquifers. The remedy addresses remediation of ground water by eliminating or reducing the risks posed by the site, through engineering controls.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Landfills, Industrial wastes, Heavy metals, Herbicides, Benzenes, Chloroethanes, Vinyl chloride, Tetrachloroethane, Halogenated hydrocarbons, Ground water, Aquifers, Plumes, Water pollution monitoring, Remedial action, Minnesota, *Record of Decision, East Bethel(Minnesota), Anoka County(Minnesota), Cleanup, Volatile organic compounds, Semivolatile organic compounds, Nonhalogenated hydrocarbons.

PB94-964121/REB Standing Order
Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 59p* EPA/ROD/R05-93/230
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document represents the selected remedial action for the Adams Plating Company (the site), in Lansing, Michigan. The selected remedy is the final remedy for the site. The remedy addresses the threats posed by contaminated soils at the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Degreasing, Chromium, Copper, Nickel, Zinc, Metals, Acetone, Methylene chloride, Trichloroethane, Soil contamination, Remedial action, Michigan, *Record of Decision, Cleanup, Lansing(Michigan), Ingham County(Michigan), Volatile organic compounds.

PB94-964122/REB Standing Order
Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 45p* EPA/ROD/R05-93/242
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Dakhue Sanitary Landfill in Cannon Falls, Minnesota. This operable unit is the second for the site. This operable unit includes the following major components: Institutional Controls contained in Dakota County Ordinance No. 114 and Minnesota Rules 4725.2000 and 4725.4300 which restrict well development; and Long term groundwater monitoring program to: (1) determine the migration of contamination; (2) assess trends in water quality in the Sand and Gravel aquifer; (3) verify that the deep aquifer is not affected; and (4) monitor contaminant levels in Judicial Ditch no. 1.

Keywords: *Superfund, *Hazardous materials, *Waste management, Sanitary landfills, Metals, Inorganic compounds, Ground water, Aquifers, Water pollution monitoring, Site characterization, Minnesota, *Record of Decision, Second remedial action, Cannon Falls(Minnesota), Hampton Township(Minnesota), Dakota County(Minnesota), Volatile organic compounds.

PB94-964123/REB Standing Order
Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 65p* EPA/ROD/R05-93/238
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document serves as United States Environmental Protection Agency (USEPA) concurrence with and adoption of the remedial action decision for the Adams County Quincy Landfills 2 & 3 site. The remedial action addresses two areas of concern–leachate and groundwater. The leachate remedial action addresses the source of the contamination by collecting and treating on-site waste. The function of this action is to control the landfill site as a source of groundwater contamination, to reduce the risks associated with exposure to contaminated materials, and to prevent untreated leachate from running off site. The groundwater remedial action involves long-term monitoring with cleanup levels.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Landfills, Municipal wastes, Chemical wastes, Sludge, Toluene, Solvents, Trichloroethanes, Heavy metals, Ground water, Leachate, Runoff, Water treatment, Water pollution monitoring, Restrictions, Capping, Remedial action, Illinois, *Record of Decision, Cleanup, Quincy(Illinois), Adams County(Illinois), Volatile organic compounds.

PB94-964124/REB Standing Order
Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 60p* EPA/ROD/R05-94/250
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for contaminated ground water at the Koppers Coke site (Site) in St. Paul, Minnesota. This ROD presents the selected remedial action for the ground water operable unit which is the first of two operable units that are planned for the Site. The selected remedy is in-situ bioremediation induced by enhanced oxygen delivery and the possible addition of nutrients to the ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Coal tar, Creosote, Liquid wastes, Metals, Cyanides, Polycyclic aromatic hydrocarbons, Ground water, Water treatment, Minnesota, *Record of Decision, Cleanup, First remedial action, Saint Paul(Minnesota), Ramsey County(Minnesota), Volatile organic compounds, Semivolatile organic compounds.

PB94-964125/HEB Standing Order
Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 16p* EPA/ROD/R05-94/251
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the decision of the Wisconsin Department of Natural Resources (WDNR) that no further source control interim action is necessary at the Land and Gas Reclamation Landfill site in the Town of Williamstown, Dodge County, Wisconsin. The WDNR has determined that no further source control interim action is necessary at this site for this first operable unit. The reason for this determination is that the source control action which was implemented under the Dodge County Circuit Court Order has eliminated potential exposure to source related contaminants, except for contaminants in the groundwater, which will be addressed in the second operable unit.

Keywords: *Superfund, *Hazardous materials, *Waste management, Landfills, Methane, Capping, Environmental monitoring, Remedial action, Site characterization, Wisconsin, *Record of Decision, Williamstown(Wisconsin), Dodge County(Wisconsin), Landfill gases, Volatile organic compounds.

PB94-964126/REB Standing Order
Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 22p* EPA/ROD/R05-94/252
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all

others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selection of the no-action remedial alternative for the Olmsted County Sanitary Landfill, Superfund site (the Site). No remedial action under CERCLA or MERLA is necessary at this site to ensure protection of human health and the environment. Potential problems associated with this site will be addressed by the Minnesota Solid Waste Landfill Compliance program, the Resource Conservation and Recovery Act and a Closure Order by Consent between the Minnesota Pollution Control Agency (MPCA) and Olmsted County. Under these programs, monitoring and review of the site will be continued to verify that no unacceptable risks posed by the site occur in the future.

Keywords: *Superfund, *Hazardous materials, *Waste management, Sanitary landfills, Municipal wastes, Industrial wastes, Debris, Ashes, Environmental monitoring, Remedial action, Site characterization, Minnesota, *Record of Decision, Oronoco Township(Minnesota), Olmsted County(Minnesota).

PB94-964127/REB Standing Order
Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 40p* EPA/ROD/R05-94/253
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Sauk County landfill is located in the Town of Excelsior, Sauk County, Wisconsin. The selected source control remedy is Alternative B, Construction of a Gas Extraction System, as listed in the Focused Feasibility Study. The selected remedy is an operable unit that meets the solid waste disposal requirements of NR 500 to 520, Wis. Adm. Code.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Xylenes, Toluene, Methyl ethyl ketone, Trichloroethanes, Vinyl chloride, Tetrachloroethylene, Methane, Industrial wastes, Municipal wastes, Land pollution, Ground water, Water pollution monitoring, Capping, Restrictions, Remedial action, Wisconsin, *Record of Decision, Cleanup, Elcelsior(Wisconsin), Sauk County(Wisconsin), Landfill gases, Volatile organic compounds, Dichloroethane.

PB94-964128/REB Standing Order
Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 216p* EPA/ROD/R05-94/254
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Vandale Junkyard site, in Washington County, Ohio. The selected remedy at the Vandale Junkyard site will be a final site-wide remedy. The selected remedial action for the site addresses the principle threats posed by the site through treatment and containment of source materials.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Open dumps, Sludge, Drums(Containers), Debris, Tars, Ketones, Cyanide, Phthalates, Metals, Soil contamination, Remedial action, Ohio, *Record of Decision, Cleanup, Marietta(Ohio), Washington County(Ohio), Volatile organic compounds.

PB94-964129/REB Standing Order
Superfund Record of Decision (EPA Region 5): N. W. Mauthe Site, Appleton, WI., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 68p* EPA/ROD/R05-94/255
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The N.W. Mauthe site is a former electroplating facility located at 725 South Outagamie Street in Appleton, Wisconsin. Hydrogen gas and chromic acid mists generated from the chromium plating process were blown outside of the building by a ventilating fan, while splashes, drips, and spills from the plating and degreasing activities were directed to a shallow floor trench and channeled into the sanitary sewer system. The plating bath solutions reacted with components of concrete which produced cracks and pits within trenches and the floor itself. This allowed infiltration of chromium and solvent solutions into the soil and groundwater below the building.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Electroplating, Industrial wastes, Chromium, Metals, Cyanide, Soil contamination, Land pollution, Ground water, Surface waters, Water pollution, Remedial action, Wisconsin, *Record of Decision, Cleanup, Appleton(Wisconsin), Outagamie County(Wisconsin), Volatile organic compounds.

PB94-964130/REB Standing Order
Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 78p* EPA/ROD/R05-94/256
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Agate Lake Scrap Yard Site in Fairview Township, Minnesota. The selected remedial action for the Agate Lake Scrap Yard site addresses only the groundwater contamination. The major components of the selected remedial action include: Institutional controls that prevent installation of drinking water wells within the vicinity of the contaminated ground water boundaries and disturbances of fill material until health based remedial action goals have been achieved; Installation of four additional wells and a ground water monitoring program to confirm the adequacy of the natural attenuation of residual contaminated ground water.

Keywords: *Superfund, *Hazardous materials, *Waste management, Insulating oils, Transformers, Asbestos, Lead(Metal), Polychlorinated biphenyls, Ground water, Water pollution monitoring, Restrictions, Remedial action, Site characterization, Minnesota, *Record of Decision, Fairview Township(Minnesota), Cass County(Minnesota).

PB94-964131/REB Standing Order
Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 17p* EPA/ROD/R05-94/257
See also PB93-964132.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document represents an amendment to a Record of Decision (ROD) issued December 24, 1992 (PB93-964132) for soil remedial action at the South Andover Salvage Yard Site (the Site). U.S. EPA issued a ROD on December 24, 1992 for the second operable unit for the remedial action of soil. The major components of this remedy included: excavate and treat approximately 2,100 cubic yards of predominately carcinogenic PAH (CPAH) contaminated soils using an above-ground biological treatment unit; excavate and transport approximately 9,300 cubic yards of soils contaminated with PCBs, CPAHs, lead and antimony to an off-site solid waste landfill permitted to receive industrial and/or commercial wastes; sample and remove drums previously inventoried by MPCA and U.S. EPA.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Salvage, Polycyclic aromatic hydrocarbons, Polychlorinated biphenyls, Lead(Metal), Antimony, Soil contamination, Soil treatment, Minnesota, *Record of Decision, Cleanup, Second remedial action, Andover(Minnesota), Anoka County(Minnesota).

PB94-964132/REB Standing Order
Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 104p* EPA/ROD/R05-94/249
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Waste, Inc. Landfill Site (the Site) in Michigan City, Indiana. This action is the final action planned for the Site. It specifically outlines an action to address on-site soil and groundwater contamination, which have been determined by the Remedial Investigation to pose unacceptable risks to human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Metals, Benzene, Polychlorinated biphenyls, Polycyclic aromatic hydrocarbons, Leachate, Ground water, Methane, Soil contamination, Water pollution, Land pollution, Capping, Underground storage, Storage tanks, Restrictions, Remedial action, Indiana, *Record of Decision, Cleanup, Michigan City(Indiana), LaPorte County(Indiana), Landfill gases, Volatile organic compounds, Semivolatile organic compounds.

PB94-964133/REB Standing Order
Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 94, 60p* EPA/ROD/R05-94/258
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche. Portions of this document are not fully legible.

The decision document presents the selected remedial action for the Prestolite Battery Superfund Site in Vincennes, Knox County, Indiana, which was chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. Section 9601 et seq., and is consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300 to the extent practicable. The decision is based upon the contents of the Administrative Record for the site. The actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action in this Record of Decision (ROD), may present an imminent and substantial endangerment to public health, selfare, or the environment. The remedy selected for ground water contamination includes continued monitoring of the shallow and intermediate aquifers at the site as well as monitoring of surface water and sediments. The selected remedy also incorporates institutional controls on the placement of drinking water wells and natural attenuation of shallow contaminated ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution effects, Ground water, Site surveys, Aquifers, Surface waters, Industrial wastes, Sediments, Water pollution control, Institutions, Public health, Volatile organic compounds, Statutes, National government, State government, Attenuation, Cost effectiveness, *Record of Decision, *Knox County(Indiana), *Remedial action, Long term monitoring program.

PB94-964201/REB Standing Order
Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 97p EPA/ROD/R06-93/080
See also PB91-921513.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This ROD is for the Vertac Onsite Operable Unit 1, which includes most of the above-ground media, such as buildings, process equipment, process vessel contents, spent activated carbon, miscellaneous

drummed wastes (including Remedial Investigation wastes), shredded trash and pallets, and PCB transformer oils.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Industrial wastes, Polychlorinated biphenyls, Insulating oils, Activated carbon, Debris, Drums(Containers), Hydrochloric acid, Kerosene, Fuel oils, Equipment, Pallets, Land pollution, Remedial action, Waste treatment, Incineration, Arkansas, *Record of Decision, Jacksonville(Arkansas), Pulaski County(Arkansas), Trash, Cleanup.

PB94-964202/REB Standing Order
Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 41p EPA/ROD/R06-93/082
See also PB91-921469.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Tenth Street Site, in Oklahoma City, Oklahoma. This Record of Decision (ROD) amends the original Record of Decision executed by the Regional Administrator on September 27, 1990 (PB91-921469). This amended remedy addresses approximately 9,800 cubic yards of soil at the site contaminated with polychlorinated biphenyls (PCBs) at or above 25 ppm. Specifically, this amended remedy addresses the threats to human health and the environment at the site by eliminating the inhalation, ingestion, and direct contact exposure pathways.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polychlorinated biphenyls, Soil contamination, Land pollution, Capping, Remedial action, Oklahoma, *Record of Decision, Dumps, Oklahoma City(Oklahoma), Oklahoma County(Oklahoma), Cleanup.

PB94-964203/REB Standing Order
Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Sep 93, 56p EPA/ROD/R06-93/084
See also PB91-921468.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit Two for the Texarkana Wood Preserving Company (TWPC) Superfund Site (Site) in Texarkana, Texas. This operable unit is the second of two operable units planned for the Site. Operable Unit Two involves remediation of the deeper ground water contaminated above the action levels in a limited area of the Silty Sand Zone around Monitoring Well-16.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Phenols, Fluorenes, Phenanthrene, Acenaphthene, Naphthalene, Anthracene, Ground water, Aquifers, Water treatment, Restrictions, Texas, *Record of Decision, Cleanup, Second remedial action, Texarkana(Texas), Bowie County(Texas), Semivolatile organic compounds, Fluoranthene.

PB94-964204/REB Standing Order
Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 110p EPA/ROD/R06-93/085
See also PB91-921470.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the selected remedial action for the Soldier Creek Sediment and Surface Water Operable Unit of the Tinker AFB (Soldier Creek/Building 3001) Site, in Oklahoma County, Oklahoma. A limited action remedy has been selected for the Soldier Creek Sediment and Surface Water Operable Unit based on the Administrative Record. The baseline risk assessment determined that Soldier Creek sediment and surface water do not pose a risk to human health and the environment in excess of the acceptable risk-based exposure levels established by EPA. The remedy selected for the operable unit incorporates the following components: five-year monitoring program of Soldier Creek sediment and surface water at on-base and off-base locations; ecological investigation (quantitative and qualitative) of Soldier Creek sediment and surface water to further define the risk to the environment; yearly monitoring report; and five-year review.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air Force facilities, Sediments, Surface waters, Soldier Creek, Land pollution, Water pollution monitoring, Environmental monitoring, Remedial action, Site characterization, Oklahoma, *Record of Decision, Tinker Air Force Base, Oklahoma County(Oklahoma).

PB94-964205/REB Standing Order
Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Feb 93, 125p* EPA/ROD/R06-93/079
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Popile, Inc. site in El Dorado, Arkansas. Both EPA and ADPC&E are in favor of a remedy that could provide a permanent solution to the hazardous substances, pollutants and contaminants at the Popile, Inc. site. After consultations, ADPC&E and EPA concluded that although incineration (Alternative 5) could most effectively destroy the hazardous substances, pollutants and contaminants at the Popile site, other remedial alternatives, in conjunction with ground water extraction and treatment (Alternative C), could provide a protective remedy.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Phenols, Metals, Dioxins, Pentachlorophenol, Polycyclic aromatic hydrocarbons, Soil contamination, Land pollution, Soil treatment, Ground water, Water pollution, Water treatment, Restrictions, Remedial action, Arkansas, *Record of Decision, El Dorado(Arkansas), Union County(Arkansas), Cleanup.

PB94-964206/REB Standing Order
Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
22 Sep 93, 133p* EPA/ROD/R06-93/083
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the PAB Oil and Chemical Services, Inc. Site (hereinafter PAB Oil site or the site), in Vermilion Parish, Louisiana. The site is being handled as one operable unit. The principal concerns to be addressed at the site are from contaminated sludges, soil and sediments, surface water, and to a lessor extent, ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sludge, Organic compounds, Inorganic compounds, Soil contamination, Sediments, Surface waters, Ground water, Land pollution, Water pollution monitoring, Remedial action, Louisiana, *Record of Decision, Vermilion Parish(Louisiana), Cleanup.

PB94-964207/REB Standing Order
Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 73p* EPA/ROD/R06-93/081
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Fourth Street Refinery Site (FSR site), Oklahoma City, Oklahoma, for the Ground Water Operable Unit. The Record of Decision (ROD) addresses the contamination in the ground water, which includes non-aqueous phase liquids. Principal threat wastes include 'pools' of dense non-aqueous phase liquids (DNAPLs) submerged beneath the ground water or in fractured bedrock, or NAPLs floating on water. This Ground Water Operable Unit addresses the principal threat at the site by monitoring the ground water to ensure that the contaminant levels are reduced with time due to natural attenuation, once the surface contamination is removed.

Keywords: *Superfund, *Hazardous materials, *Waste management, Abandoned sites, Refineries, Industrial wastes, Oil wastes, Ground water, Aquifers, Water pollution monitoring, Site characterization, Oklahoma, *Record of Decision, Second remedial action, Dense non-aqueous phase liquids, Oklahoma City(Oklahoma), Oklahoma County(Oklahoma).

PB94-964208/REB Standing Order
Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Apr 93, 218p* EPA/ROD/R06-93/086
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the American Creosote Works, Inc., in Winnfield, Louisiana. This Record of Decision (ROD) addresses the source of hazardous substances, which includes surface sludges, subsurface pooled creosote and pentachlorophenol liquids defined as nonaqueous phased liquids (NAPLs), and contaminated soil and debris. This is the final remedy and addresses remediation of the source of shallow ground water contamination and contaminated soils at the American Creosote Works, Inc. site. The principal threats posed by the site will be eliminated through treatment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Liquid wastes, Sludge, Creosote, Pentachlorophenol, Polycyclic aromatic hydrocarbons, Ground water, Water pollution, Soil contamination, Land pollution, Remedial action, Louisiana, *Record of Decision, Cleanup, Winnfield(Louisiana), Winn Parish(Louisiana), Nonaqueous phase liquids.

PB94-964209/REB Standing Order
Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 147p* EPA/ROD/R06-93/078
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Cleveland Mill Superfund Site (hereinafter, the Site), in Grant County, New Mexico. The Site is being handled as one operable unit, in which all the surficial contaminated areas (soils, main tailings piles, the western hillside waste piles, the cobbed ore pile, dust piles, roadbed soils, mine spoils, and creek sediment), and the contaminated ground water and surface water are being addressed.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Mine wastes, Tailings, Metals, Soil contamination, Sediments, Land pollution,

Soil treatment, Ground water, Surface waters, Water pollution monitoring, Restrictions, Remedial action, New Mexico, *Record of Decision, Cleanup, Silver City(New Mexico), Grant County(New Mexico).

PB94-964301/REB Standing Order
Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Jun 93, 84p* EPA/ROD/R07-93/066
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected interim remedial actions for the Well Number 3 ground water operable units. The Well Number 3 Subsite is a subsite of the Hastings Ground Water Contamination Site, Hastings, Nebraska. The interim action ROD addresses two separate areas of groundwater contamination. Plume 1 is characterized by carbon tetrachloride (CCl4) and chloroform (CHCl3) contamination. Plume 2 is characterized primarily by trichloroethene (TCE), 1,1,1-trichloroethane (TCA), tetrachloroethene (PCE) and dichloroethene (DEC) contamination. These interim ground water remedies were developed to protect public health, welfare and the environment by controlling the migration and reducing the volume and mass of contaminants present in the ground water beneath and downgradient from each source area of the Well Number 3 Subsite.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Carbon tetrachloride, Chloroform, Trichloroethanes, Ground water, Aquifers, Plumes, Water wells, Remedial action, Nebraska, *Record of Decision, Hastings(Nebraska), Adams County(Nebraska), Tetrachloroethene, Trichloroethene, Dichloroethene, Cleanup.

PB94-964302/REB Standing Order
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 137p EPA/ROD/R07-93/067
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the chemical plant area of the Weldon Spring site in St. Charles County, Missouri. This operable unit addresses the various sources of contamination at the chemical plant area including soils, sludge, sediment, and materials placed in short-term storage as a result of previous response actions. The remedial action uses treatment to address the principal threat remaining at the site, (e.g., raffinate pit sludges and certain soil from the quarry).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Chemical plants, TNT, DNT, Explosives, Metals, Polychlorinated biphenyls, Polycyclic aromatic hydrocarbons, Radioactive wastes, Sludge, Sediments, Soil contamination, Ponds, Surface waters, Land pollution, Water pollution, Missouri, *Record of Decision, Cleanup, Third remedial action, Weldon Spring(Missouri), Saint Charles County(Missouri).

PB94-964303/REB Standing Order
Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 52p* EPA/ROD/R07-93/063
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Red Oak Landfill Superfund site, in Red Oak, Montgomery County, Iowa. The selected remedial action at the Red Oak City Landfill Superfund Site (herein referred to as 'the Red Oak Landfill' or 'the Site') addresses all identified remedial action objectives, and is to be implemented in a single operable unit. This action addresses the principal threat at the Site through containment of the waste materials. The containment system will limit the threat of direct contact with wastes, and minimize the potential for migration of contaminants to ground water and surface water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Cyanide, Metals, Soil contamination, Land pollution, Ground water, Water pollution monitoring, Capping, Restrictions, Remedial action, Iowa, *Record of Decision, Red Oak(Iowa), Montgomery County(Iowa), Volatile organic compounds, Semivolatile organic compounds, Cleanup.

PB94-964304/REB Standing Order
Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 93, 20p* EPA/ROD/R07-93/071
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document represents the selected remedial action for the ground water at the Syntex Agribusiness, Inc. site near Verona, Missouri. EPA believes that no further remedial action is necessary for ground water at the site to ensure protection of human health and the environment. Previous and ongoing remedial responses under operable unit 1 have greatly reduced the threat from past sources of contamination. Ground and surface water monitoring will continue for two years following the issuance of this record of decision. An assessment will be conducted by EPA at the end of the monitoring program to ensure that this remedy remains protective of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Industrial wastes, Dioxins, Tetrachlorodibenzo dioxin, Herbicides, Pesticides, Ground water, Surface waters, Water pollution monitoring, Remedial action, Site characterization, Missouri, *Record of Decision, Verona(Missouri), Lawrence County(Missouri).

PB94-964305/REB Standing Order
Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
5 Feb 93, 7p* EPA/ROD/R07-93/072
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document, together with a Record of Decision (ROD) dated December 31, 1990 (PB92-964305), represents the selected remedial action for addressing contaminants in the Ground Water and Formulation Building Operable Unit (Operable Unit No. 2 or OU No. 2) at the Kem-Pest Laboratories site, Cape Girardeau County, Missouri. The primary reason for amending the 1990 ROD is that new information has indicated that decontamination of the formulation building is technically infeasible. This selected amended remedy does not change the 1990 ROD with respect to the required ground water monitoring and the institutional controls.

Keywords: *Superfund, *Hazardous materials, *Waste management, Ground water, Water pollution monitoring, Remedial action, Site characterization, Missouri, *Record of Decision, Cape Girardeau County(Missouri), Building demolition.

PB94-964306/REB Standing Order
Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 18p* EPA/ROD/R07-93/062
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the final remedy selected for the North U Drive Well Contamination site in Springfield, Missouri. The EPA, in consultation with the State of Missouri, has determined that it lacks jurisdiction to undertake or require additional response or remedial actions under CERCLA for the petroleum-related releases and the elevated levels of metals in groundwater at the site. Therefore, the final remedy for the site is No Further Action. It should be noted that in 1985, the EPA conducted a removal action at this site. As part of the removal, municipal drinking water lines were extended to provide drinking water users of well which were contaminated. Contaminated wells were then plugged in accordance with state requirements.

Keywords: *Superfund, *Hazardous materials, *Waste management, Petroleum products, Metals, Ground water, Water wells, Water pollution, Remedial action, Site characterization, Missouri, *Record of Decision, Springfield(Missouri), Greene County(Missouri).

PB94-964307/REB Standing Order
Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
28 Sep 93, 62p* EPA/ROD/R07-93/068
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Sherwood Medical Company Site in Norfolk, Nebraska. The selected remedy is intended to be a final remedial action for the site and addresses all contamination associated with the principal threats posed by the site. The selected remedy addresses the volatile organic compound contamination identified in the soil and the ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Underground storage, Storage tanks, Soil contamination, Ground water, Land pollution, Water pollution monitoring, Remedial action, Nebraska, *Record of Decision, Norfolk(Nebraska), Madison County(Nebraska), Volatile organic compounds, Cleanup.

PB94-964308/REB Standing Order
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 40p* EPA/ROD/R07-93/070
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document, together with a Record of Decision (ROD) dated September 30, 1988 for the North Farm Operable Unit and a ROD dated September 27, 1990 for the Midwest Manufacturing Operable Unit, presents the selected remedial actions for the North Farm Operable Unit and the Midwest Manufacturing Operable Unit which together comprise the Midwest Manufacturing/North Farm Site, Kellogg, Iowa.

Keywords: *Superfund, *Hazardous materials, *Waste management, Cadmium, Manganese, Cyanide, Ground water, Water pollution monitoring, Soil contamination, Land pollution, Remedial action, Site characterization, Restrictions, Iowa, *Record of Decision, Kellogg(Iowa), Jaspar County(Iowa).

PB94-964309/REB Standing Order
Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 93, 51p* EPA/ROD/R07-93/064
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the soils and wastes at the Chemplex Site located in Clinton, Iowa. The second and final operable unit, which is the subject of this Record of Decision, addresses threats posed by contaminated soils and wastes at the Site. The contaminated soils and wastes act as a source of groundwater contamination and also act as a source for direct exposure to hazardous substances. The remedy addresses principal threat wastes, which are the contaminated materials in the Landfill Area of the Site, as well as the low-level threat wastes at the rest of the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Tetrachlorethylene, Benzene, Chemical wastes, Polycyclic aromatic hydrocarbons, Soil contamination, Land pollution, Capping, Restrictions, Iowa, *Record of Decision, Cleanup, Second remedial action, Clinton(Iowa), Clinton County(Iowa), Light nonaqueous phase liquids.

PB94-964310/REB Standing Order
Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 99p* EPA/ROD/R07-93/065
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the McGraw-Edison Facility, located in Centerville, Iowa. The selected remedy for the Site is a comprehensive approach for the complete remediation of the principal threats posed by the Site. This approach will address trichloroethene (TCE) contamination of the subsurface soils and ground water.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Chemical spills, Toluene, Chromium, Lead(Metal), Nickel, Soil contamination, Land pollution, Ground water, Water pollution, Water treatment, Environmental monitoring, Remedial action, Iowa, *Record of Decision, Cleanup, Centerville(Iowa), Appanoose County(Iowa), Trichloroethene.

PB94-964311/REB Standing Order
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 40p* EPA/ROD/R07-93/069
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document, together with a Record of Decision (ROD) dated September 30, 1988 for the North Farm Operable Unit and a ROD dated September 27, 1990 for the Midwest Manufacturing Operable Unit, presents the selected remedial actions for the North Farm Operable Unit and the Midwest Manufacturing Operable Unit which together comprise the Midwest Manufacturing/North Farm Site, Kellogg, Iowa.

Keywords: *Superfund, *Hazardous materials, *Waste management, Cyanide, Metals, Soil contamination, Land pollution, Ground water, Water pollution monitoring, Restrictions, Site characterization, Remedial action, Iowa, *Record of Decision, Kellogg(Iowa), Jaspar County(Iowa), Volatile organic compounds.

PB94-964312/REB Standing Order
Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 23p* EPA/ROD/R07-94/073
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Electro-Coatings, Inc. site located in Cedar Rapids, Iowa. In consultation with the U.S. Environmental Protection Agency (EPA), DNR has determined that monitoring with a contingency for groundwater pump-and-discharge to the publicly owned treatment works (POTW) is the selected remedy for the Electro-Coatings site. This remedy acknowledges the containment of contaminated groundwater which has been and continues to be provided by the nearby production well (PW-1) operated by the Hawkeye Rubber Company.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Electroplating, Industrial wastes, Cyanide, Cadmium, Lead(Metal), Nickel, Chromium, Ground water, Aquifers, Plumes, Water treatment, Water pollution monitoring, Remedial action, Iowa, *Record of Decision, Cedar Rapids(Iowa), Linn County(Iowa), Cleanup, Volatile organic compounds.

PB94-964401/REB Standing Order
Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant National Priorities List Site, Butte, MT., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 230p* EPA/ROD/RO8-94/080
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedy for the Montana Pole and Treating Plant site (the Site), in Butte, Montana. This is the final action for the only operable unit for the Site. The operable unit includes all known sources and contaminated media at the Site. This action addresses the principal threats remaining and provides for treatment of contaminated soils and groundwater. Some treatment residuals and soils contaminanted at lower levels will remain on-site, such that the Site will require long-term management. The principle contaminants of concern at the Site are pentachlorophenol (PCP), polynuclear aromatic hydrocarbons (PAHs), polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans. The Record of Decision establishes cleanup levels for these and all other contaminants of concern at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, Montana, Polycyclic aromatic hydrocarbons, Pentachlorophenol, Ground water, Soil contamination, Water pollution control, Land pollution control, *Record of Decision, Butte(Montana), Silver Bow County(Montana), Polychlorinated dibenzo-p-dioxins, Polychlorinated dibenzofurans, Cleanup.

PB94-964402/REB Standing Order
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 76p* EPA/ROD/R08-94/081
See also PB90-178864.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedy for Operable Unit 4 (OU4), Site-wide groundwater at the Sand Creek Industrial Superfund Site in Commerce City, Colorado. The Sand Creek Industrial Superfund Site has an extensive history of industrial use, including pesticide manufacturing, petroleum refining, acidic waste disposal, municipul landfilling, and chemical storage and distribution. OU4 addresses groundwater underlying the Site and is contaminated with volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and metals. The remedy selected for OU4 will minimize direct contact with and ingestion of groundwater underlying the Site and prevents further offsite migration of contaminants in excess of federal and state groundwater standards. Municipal water for the area surrounding OU4 is supplied by the South Adams County Water and Sanitation District (SACWSD) and the Denver Water Department (DWD). Water supplied by the DWD is obtained primarily from surface-water sources located outside of the Site area. Residents near the OU4 area are not currently using contaminated groundwater for domestic purposes.

Keywords: *Superfund, *Earth fills, *Industrial wastes, *Hazardous materials, *Waste disposal, Site surveys, Volatile organic compounds, Pesticides, Ground water, Public health, Risk assessment, Ingestion, Water supply, Surface waters, Utilization, Residential areas, *Commerce City(Colorado), *Record of Decision, Remedial action, Soil contamination.

PB94-964405/REB Standing Order
Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
30 Dec 92, 15p* EPA/ROD/R08-93/069
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Unit 4 (OU 4), the Acid Dry Well area (ADW) at F E Warren Air Force Base, in Cheyenne, Wyoming. The selected remedy for the Acid Dry Well (ADW) area is that no further remedial action is required. Ground-water monitoring will be continued, to confirm that sulfate is not leaching out of the soil into the ground water and to ensure that no unacceptable releases to the environment occur.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air force facilities, Ground water, Soil contamination, Water pollution monitoring, Land pollution, Sulfates, Metals, Remedial action, Site characterization, Wyoming, *Record of Decision, F E Warren Air Force Base, Cheyenee(Wyoming), Laramie County(Wyoming).

PB94-964406/REB Standing Order
Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 104p EPA/ROD/R08-93/073
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Utah Power & Light/American Barrel Site in Salt Lake City, Utah. The objective of this Record of Decision (ROD) is to provide a remedy to address all contamination caused by previous site activities located on the American Barrel Yard and adjacent properties which affect surface soils, subsurface soils, and groundwater. Contamination from historical operations and contaminant sources left on-site at the time of abandonment have migrated into soil and groundwater. Remediation will be to the extent of contamination emanating from the American Barrel Yard and Denver Rio Grande and Western properties. The response action described in this ROD will permanently address all principal threats through treatment.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polycyclic aromatic hydrocarbons, Soil contamination, Ground water, Land pollution, Water pollution, Remedial action, Waste recycling, Utah, *Record of Decision, Salt Lake City(Utah), Salt Lake County(Utah), Nonaqueous phase liquids, Cleanup.

PB94-964407/REB Standing Order
Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant, Butte, MT., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 166p* EPA/ROD/RO8-93/075
See also PB94-964401.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedy for the Montana Pole and Treating Plant site (the Site), in Butte, Montana. This is the final action for the only operable unit for the Site. The operable unit includes all known sources and contaminated media at the Site.

This action addresses the principal threat remaining and provides for treatment of contaminated soils and groundwater. Some treatment residuals and soils contaminated at lower levels will remain on-site, such that the Site will require long-term management. The principle contaminants of concern at the Site are pentachlorophenol (PCP), polynuclear aromatic hydrocarbons (PAHs), polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans. This Record of Decision establishes cleanup levels for these and all other contaminants of concern at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Pentachlorophenol, Polycyclic aromatic hydrocarbons, Polychlorinated dibenzodioxins, Polychlorinated dibenzofurans, Soil contamination, Land pollution, Soil treatment, Ground water, Water pollution, Remedial action, Montana, *Record of Decision, Butte(Montana), Silver Bow County(Montana), Cleanup.

PB94-964408/REB Standing Order
Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Jun 93, 66p* EPA/ROD/R08-93/070
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Old Minot Landfill site, in Minot, North Dakota. The selected remedy addresses the potential risks identified at the site by treating leachate and managing the discharge of leachate and landfill gases. This action incorporates removal, treatment and containment technologies.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Landfills, Solvents, Metals, Halogenated aliphatic hydrocarbons, Polycyclic aromatic hydrocarbons, Benzenes, Phenols, Methane, Leachate, Ground water, Water pollution monitoring, Land pollution, Restrictions, Remedial action, North Dakota, *Record of Decision, Minot(North Dakota), Ward County(North Dakota), Landfill gases, Cleanup.

PB94-964409/REB Standing Order
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 47p* EPA/ROD/R08-93/077
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Interim Response Action (IRA) alternatives assessment and decision process for the underground storage tanks (USTs) at the Rocky Mountain Arsenal (RMA) will be a discrete element of the Chemical Process-Related Activities IRA. Alternatives have been reviewed based on their overall protectiveness of human health and the environment; compliance to the maximum extent practicable with Applicable or Relevant and Appropriate Requirements (ARARs); reduction in toxicity, mobility, or volume; short-term and long-term effectiveness; implementability; and cost-effectiveness. The preferred alternative consists of cleaning and removing the USTs and disposing of them by cutting them up for scrap.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Storage tanks, Underground storage, Chemical agents, Destruction, Chemical wastes, Pesticides, Land pollution, Remedial action, Colorado, *Record of Decision, Rocky Mountain Arsenal, Adams County(Colorado), Cleanup.

PB94-964410/REB Standing Order
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 93, 53p* EPA/ROD/R08-93/078
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Pretreatment of CERCLA Liquid Wastes IRA is being conducted as part of the IRA Process for RMA in accordance with the June 5, 1987, report to the court in United States versus Shell Oil Co., the proposed Modified Consent Decree dated June 7, 1988, and the Federal Facility Agreement dated February 17, 1989. The Decision Document addresses only Element One: Management options for disposal and/or treatment of hazardous waste that has been or will be placed in storage areas at RMA, and which have not been addressed in another IRA. Waste streams include: RI/FS wastes; IRA wastes; miscellaneous waste from vehicle, grounds, and building maintenance; and items found on post each of which may contain hazardous waste properties.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Liquid wastes, Debris, Waste treatment, Land pollution, Remedial action, Colorado, *Record of Decision, Rocky Mountain Arsenal, Adams County(Colorado), Cleanup.

PB94-964411/REB Standing Order
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 43p* EPA/ROD/R08-93/079
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document outlines remediation and management alternatives to coordinate disposal options for polychlorinated biphenyls (PCB) wastes at the Rocky Mountain Arsenal (RMA) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) activities. This decision document selects specific disposal options associated with Element Two under the expansion of the Pretreatment of CERCLA Liquid Wastes Interim Response Action (IRA). Section 2 of this decision document provides a brief overview of the Interim Response Action (IRA) currently being conducted at RMA, including an expansion of the original IRA to include three additional elements. Section 3 identifies the objectives of Element Two of this IRA expansion. Section 4 identifies potential alternatives that are applicable to the disposal of the wastes generated under Element Two. A description of the preferred or selected disposal alternative, and the evaluation process used to support this selection, as background is provided in Section 5. Information including a list of chronological events is presented in Section 6, and the IRA process for Element Two is identified in Section 7. A brief discussion of applicable or relevant and appropriate requirements (ARARs) is included in Section 8. Additional requirements to be considered are discussed in Section 9.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Polychlorinated biphenyls, Soil contamination, Equipment, Land pollution, Remedial action, Colorado, *Record of Decision, Rocky Mountain Arsenal, Adams County(Colorado), Cleanup.

PB94-964412/REB Standing Order
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
8 Sep 93, 26p* EPA/ROD/R08-93/074
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document is an amendment to the Record of Decision (ROD) signed September 28, 1990 (PB94-921479) and presents the new selected remedial action for cleanup of contaminated shallow soils at OU5 at the Sand Creek Industrial Superfund Site. OU5 is located immediately north of 52nd and Dahlia Street in Commerce City, Colorado. Based on new technical data and cost information obtained subsequent to the September 1990 ROD, EPA has reconsidered its decision to employ soil washing and incineration of the generated residuals as a source control measure for OU5.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Metals, Pesticides, Dieldrin, Chlordan, Heptachlor, Arsenic, Chromium, DDT, Soil contamination, Soil treatment, Remedial action, Colorado, *Record of Decision, Cleanup, Commerce City(Colorado), Adams County(Colorado), Volatile organic compounds.

PB94-964413/REB Standing Order
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 2, Commerce City, CO., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 13p* EPA/ROD/R08-93/071
See also PB90-178864, PB91-921479, PB94-964402, and PB94-964412.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Unit 2, the L. C. Corporation Property, at the Sand Creek Industrial Site in Commerce City, Colorado. As a result of prior cleanup activity on the OU2 property there is no significant risk to the public health by ingestion, inhalation, or skin absorption. The former neutralization of the acid pits does not need augmentation or additional activity. No further action is therefore recommended for OU2.

Keywords: *Superfund, *Hazardous materials, *Waste management, Herbicides, Insecticides, Pesticides, Metals, Land pollution, Soil contamination, Site characterization, Colorado, *Record of Decision, Second remedial action, Commerce City(Colorado), Adams County(Colorado), Volatile organic compounds, Semivolatile organic compounds.

PB94-964414/REB Standing Order
Superfund Record of Decision (EPA Region 8): Chemical Sales Company Site, Operable Unit 4, Commerce City, CO., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 56p* EPA/ROD/R08-93/076
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action (RA) for Operable Unit 4 (OU4) of the CSC Site, located in Commerce City Colorado. The objective of the OU4 remedy is to minimize or eliminate exposure or potential human exposure to contaminants present in the contaminated ground water. No principal threat exists in CSC OU4. Nevertheless treatment is used as a major component of the remedy.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Trichloroethane, Trichloroethylene, Tetrachloroethylene, Benzene, Vinyl chloride, Dichloroethylenes, Ground water, Drinking water, Water supply, Water treatment, Colorado, *Record of Decision, Cleanup, Fourth remedial action, Commerce City(Colorado), Adams County(Colorado), Nonaqueous phase liquids, Dichloroethane.

PB94-964415/REB Standing Order
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Units 3 and 6, Commerce City, CO., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 51p* EPA/ROD/R08-93/072
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Units 3 and 6 (OU3/OU6), the 48th and Holly Landfill (the Landfill), at the Sand Creek Industrial Superfund Site in Commerce City, Colorado. The remedial action selected for OU3/OU6 will address the principal threats existing at the Landfill and will ensure that: (1) emissions of landfill gas are controlled to present inhalation at levels that pose an endangerment to human health or the environment, (2) accumulation of landfill gas is minimized in order to

prevent explosion hazards, (3) dermal contact with the landfill contents is prevented, and (4) the use of ground water underlying the Landfill as a drinking water source is prevented.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Landfills, Metals, Methane, Ground water, Surface waters, Water pollution monitoring, Ambient air quality, Restrictions, Remedial action, Colorado, *Record of Decision, Cleanup, Commerce City(Colorado), Adams County(Colorado), Landfill gases, Volatile organic compounds, Semivolatile organic compounds.

PB94-964416/REB Standing Order
Superfund Record of Decision (EPA Region 8): Eagle Mine Site, Operable Unit 1, Eagle County, CO., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 91p* EPA/ROD/R08-93/068
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Eagle Mine Site, Operable Unit 1 (OU-1) (Site), located in Eagle County, Colorado. This Operable Unit, one of two designated for the Site, addresses the principal sources of mine waste pollution that are impacting the Eagle River and certain ground water resources. The purpose of this Operable Unit (OU-1) is to control the transport of toxic metals originating from various sources to the Eagle River and to Site ground waters. The identified sources include the Eagle Mine, the Roaster Pile area, the Waste Rock Piles, Rex Flats, the Old Tailings Pile (OTP), the Consolidated Tailings Pile (CTP) and the Maloit Park Wetlands.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Leachate, Mine wastes, Tailings, Spoil, Acid mine drainage, Arsenic, Cadmium, Selenium, Methyl mercury, Eagle River, Ground water, Wetlands, Water pollution monitoring, Soil contamination, Sediments, Land pollution control, Remedial action, Colorado, *Record of Decision, Cleanup, Eagle Mine, Minturn(Colorado), Eagle County(Colorado).

PB94-964417/REB Standing Order
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 4, UT., June 1994.
Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
14 Jun 94, 191p* EPA/ROD/R08-94/084
See also PB93-964403.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the remedy for Hill Air Force Base (Hill AFB) Operable Unit 4 (OU 4) in Utah. This action addresses contaminated ground water, surface water, and air at OU 4. This action also addresses landfill contents, which are the source of OU 4 ground-water, surface-water, and air contamination. The selected remedy for OU 4 addresses the threat to human health and the environment by containing and treating the source area and the contaminated ground water, surface water, and air.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Air force facilities, Landfills, Metals, Benzene, Chloroform, Boron, Ground water, Aquifers, Surface waters, Soil gases, Ambient air quality, Capping, Water treatment, Installation restoration, Remedial action, Utah, *Record of Decision, Cleanup, Hill Air Force Base, Weber County(Utah), Davis County(Utah), Volatile organic compounds, Trichloroethene, Dichloroethene.

PB94-964501/REB Standing Order
Superfund Record of Decision (EPA Region 9): Indian Bend Wash Site, Tempe, AZ., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 137p* EPA/ROD/R09-94/105
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Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) is for the Indian Bend Wash Superfund Site, South Area. The Indian Bend Wash Superfund Site (IBW) is located in the cities of Scottsdale and Tempe, Maricopa County, Arizona, and includes a portion of the Salt River Pima-Maricopa Indian Community immediately east of Scottsdale and north of Tempe. This ROD presents the selected remedial action for volatile organic compounds (VOCs) in soils above the water tables (the 'vadose zone') at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, Arizona, Trichloroethanes, Tetrachloroethylene, Trichloroethylene, Ground water, Vadose zone, Indian Bend Wash, Soil water, Soil contamination, Water pollution control, Land pollution control, *Record of Decision, *First remedial action, Tempe(Arizona), Maricopa County(Arizona), Cleanup, Volatile organic compounds.

PB94-964502/REB Standing Order
Superfund Record of Decision (EPA Region 9): Baldwin Park San Gabriel Valley Area Site, Los Angeles County, CA., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 348p* EPA/ROD/R09-94/106
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Baldwin Park Operable Unit (OU), San Gabriel Valley Superfund Sites. The Baldwin Park Operable Unit addresses a large area of groundwater contamination in the San Gabriel Valley. Volatile organic compounds (VOCs) are present in the groundwater throughout a several mile long area, extending beneath the cities of Azusa, Irwindale, and Baldwin Park. The remedy will limit further migration of contaminated groundwater to areas and depths that would benefit most from additional protection, and collect data necessary to determine final clean up standards for the Baldwin Park area.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, California, San Gabriel Valley, Carbon tetrachloride, Ground water, Aquifers, Water pollution control, Water treatment, *Record of Decision, Los Angeles County(California), Cleanup, Volatile organic compounds, Trichloroethene, Tetrachloroethene.

PB94-964503/REB Standing Order
Superfund Record of Decision (EPA Region 9): Aircraft Control and Warning Site, Mather Air Force Base, CA., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 94p* EPA/ROD/R09-94/107
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document, a Record of Decision (ROD), presents the selected remedial action for the AC&W Site, Installation Restoration Program (IRP) Site 12, at Mather Air Force Base (AFB), Sacramento County, California. Reports indicate that from 1958 to 1966 waste solvents and transformer oils were disposed in a waste disposal pipe in the AC&W area. Investigations conducted as part of the Air Force Installation Restoration Program (IRP) failed to locate the waste disposal pipe but did find trichloroethylene (TCE) contamination in the shallow water bearing zone (SWBZ) in the AC&W area. The SWBZ is classified as a potential source of drinking water by the State of California, although it is not currently used in the AC&W area. The selected remedy will address the potential threat to human health posed by TCE contamination in groundwater (primarily in the SWBZ).

Keywords: *Superfund, *Hazardous materials, *Water pollution control, *Waste disposal, California, Air force facilities, Remedial action, Trichloroethylene, Solvents, Insulating oils, Transformers, Plumes, Ground water, Installation restoration, *Record of Decision, Mather Air Force Base, Sacramento County(California), Shallow water bearing zone.

PB94-964506/REB Standing Order
Superfund Record of Decision (EPA Region 9): Castle Air Force Base (Operable Unit 2), Merced County, CA., November 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 142p* EPA/ROD/R09-94/110
See also PB92-964508.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents the remedial action selected for Castle AFB, Operable Unit No. 2 (OU-2), in Merced County, California. OU-2 is defined as the contaminated ground water under the area on Base referred to as Discharge Area No. 4 (DA-4) and the contiguous area off-Base where contamination from Castle AFB has migrated, in the vicinity of Wallace Road, including all ground water along the interim OU-1/OU-2 boundary in Figure 1, which is not remediated by interim OU-1. The OU-2 system will be designed to remediate degraded ground water that is not laterally covered by the interim OU-1 system.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Air force facilities, Ground water, Aquifers, Plumes, Water pollution monitoring, Remedial action, California, *Record of Decision, Castle Air Force Base, Merced County(California), Volatile organic compounds, Cleanup.

PB94-964507/REB Standing Order
Superfund Record of Decision (EPA Region 9): Southern California Edison, Visalia Pole Yard, Visalia, CA., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 20p* EPA/ROD/R09-94/111
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the selected remedial action for the Southern California Edison, Visalia Pole Yard, Superfund Site (the Site) in Visalia, California. The facility was used for utility pole treatment operations from 1925 until 1980. The interim response actions addressed the principal threats at the Site. The final remedy addresses threats remaining after the interim measures. Estimated potential risks under current conditions include both occupational and off-site residential exposure scenarios. The major components of the selected remedy include: in-situ bioremediation; property access restrictions; and deed restrictions; and may include if necessary soil capping.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Remedial action, California, Creosote, Pentachlorophenol, Wood preservatives, Ground water, Soil contamination, Water pollution control, Land pollution control, *Record of Decision, Visalia(California), Tulare County(California), Cleanup, Bioremediation.

PB94-964508/REB Standing Order
Superfund Record of Decision (EPA Region 9): Riverbank Army Ammunition Plant Site, Riverbank, CA., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 169p* EPA/ROD/R09-94/112
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial actions for the Riverbank Army Ammunition Plant (RBAAP) in Riverbank, California. This sitewide ROD contains two response actions that address the media of concern at RBAAP. This ROD also documents the decision that no further action is warranted at the Evaporation/Percolation (E/P) ponds. The two response actions for this ROD are a groundwater response action and a landfill response action.

Keywords: *Superfund, *Hazardous materials, *Remedial action, California, Army facilities, Munitions industry, Sediments, Petroleum products, Polycyclic aromatic hydrocarbons, Zinc, Ground water, Water pollution control, Installation restoration, Landfills, *Record of Decision, Riverbank Army Ammunition Plant, Riverbank(California), Stanislaus County(California), Evaporation/percolation ponds.

PB94-964509/REB Standing Order
Superfund Record of Decision (EPA Region 9): Norton Air Force Base, San Bernardino, CA., November 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 143p* EPA/ROD/R09-94/113
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial actions for the Norton Air Force Base (AFB) Central Base Area (CBA) Operable Unit (OU) in San Bernardino, California. The response actions address the documented principal public health and environmental threats from the CBA OU. Actions for the CBA OU have been selected to address the volatile organic compound (VOC)-impacted groundwater (both on- and offbase), and the TCE soil sources in the CBA.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, California, Air force facilities, Trichloroethylene, Ground water, Soil contamination, Water pollution control, Land pollution control, *Record of Decision, *First remedial action, Norton Air Force Base, San Bernardino(California), San Bernardino County(California), Cleanup, Volatile organic compounds.

PB94-964510/REB Standing Order
Superfund Record of Decision (EPA Region 9): Hexcel, Livermore, CA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Sep 93, 79p* EPA/ROD/R09-93/100
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the selected remedial action for the Hexcel Site located in Livermore, California. For the HMP OU the remedy consists of removing sources of organic compounds (acetone, methyl ethyl ketone, and benzene) in two locations by in-situ soil vapor extraction, soil aeration, and sparging to enhance aerobic biodegradation. For the ADS OU the remedy consists of monitoring concentrations of methane in the subsurface soils with a contingency for methane control measures if necessary, regarding the surface to prevent ponding and excess infiltration of water, continued groudwater monitoring, and a deed notification identifying areas of buried waste.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Benzene, Acetone, Methyl ethyl ketone, Methane, Tetrachloroethylene, Organic compounds, Soil contamination, Soil treatment, Environmental monitoring, Remedial action, California, *Record of Decision, Livermore(California), Alameda County(California), Cleanup, HMP OU(Hexcel Composite Manufacturing Plant Operable Unit), ADS OU(Abandoned Disposal Site Operable Unit).

PB94-964511/REB Standing Order
Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Shasta County, CA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
24 Sep 93, 67p* EPA/ROD/R09-93/101
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected interim remedial action for control of heavy-metal-bearing acidic discharges, termed acid mine drainage, or AMD, from the Old and No. 8 Mines into Slickrock Creek. These discharges are the third largest source of AMD at the Iron Mountain Mine Superfund Site. Slickrock Creek is a tributary of Spring Creek, which in turn is a tributary of the Sacramento River. Slickrock Creek is on the south side of the Iron Mountain Mine (IMM) site. The IMM site is located about 9 miles northwest of Redding, California. The selected interim remedial action is to collect and treat the AMD for Old/No. 8 Mine Seep. The California Department of Toxic Substances Control (DTSC) and Regional Water Quality Control Board (RWQCB) concur with the selection of lime treatment and use of a process option that will produce a dense sludge as the interim remedial action for the Old/No. 8 Mine Seep acid mine drainage discharges.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Mine wastes, Mine waters, Acid mine drainage, Heavy metals, Zinc, Copper, Cadmium, Slickrock Creek, Surface waters, Liming, Water pollution control, Remedial action, California, *Record of Decision, Iron Mountain Mine, Shasta County(California), Cleanup.

PB94-964512/REB Standing Order
Superfund Record of Decision (EPA Region 9): Waste Disposal, Inc., Santa Fe Springs, CA., December 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
27 Dec 93, 209p* EPA/ROD/R09-94/114
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Waste Disposal, Inc. site in Santa Fe Springs, California. This action addresses the principal threat at the site, which is exposure to contaminated soil, through containment and institutional controls. The major components of the selected remedy include: consolidation of contaminated soil beneath a multilayered, RCRA-equivalent cap; capping approximately 17 acres of the 43-acre site with above mentioned cap (approximately 75% asphalt, 25% vegetation top cover); extraction and treatment by flaring of subsurface gases, if necessary; institutional controls that restrict future use of properties with residual contamination that pose an exposure risk; and groundwater monitoring.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Soil gases, Soil contamination, Ground water, Land pollution, Water pollution, California, *Record of Decision, Santa Fe Springs(California), Los Angeles County(California), Cleanup, First remedial action.

PB94-964513/REB Standing Order
Superfund Record of Decision (EPA Region 9): George Air Force Base, Operable Unit 1, San Bernardino County, CA., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
8 Mar 94, 189p* EPA/ROD/R09-94/115
Paper copy available on Standing Order, deposit account required ($100 U.S. Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document, a Record of Decision (ROD), presents the selected remedial action for Operable Unit (OU) 1 at George Air Force Base (GAFB). The purpose of this ROD is to set forth the remedial action to be conducted to remediate groundwater contaminated by trichloroethene (TCE) beneath the NEDA and adjacent off-base areas. No further action is planned for sites SD-25 (S-20), the Industrial/Storm Drain, and WP-26 (S-21), the STP Percolation Ponds, which are also included in OU 1, as these sites were within acceptable risk levels based upon the risk assessment performed as part of the remedial investigation.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Air Force facilities, Sewage treatment plants, Ground water, Water pollution monitoring, Remedial action, California, *Record of Decision, George Air Force Base, San Bernardino County(California), Trichloroethene, Cleanup.

PB94-964514/REB Standing Order
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 2, Phoenix, AZ., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 146p EPA/ROD/R09-93/090
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Williams Air Force Base (AFB) is located in Maricopa County, east of the City of Chandler, Arizona. Opreable Unit 2 (OU-2) of the Williams AFB National Priority List (NPL) site is located at the Base's Liquid Fuels Storage Area (LFSA), which is also referred to by its site designation 'ST-12'. Releases of Jet Propulsion Fuel Grade 4 (JP-4) and aviation gasoline (AVGAS) have contaminated soils and groundwater at OU-2. A variety of non-petroleum related CERCLA hazardous substances were also detected in OU-2 soils and groundwater. Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response actions selected in this ROD, may present an imminent and substantial endangerment to public health and the environment. Benzene, which is present in JP-4, is the most prevalent and mobile of the contaminants at OU-2.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air Force facilities, Aviation gasoline, JP-4 jet fuel, Jet engine fuels, Benzene, Ground water, Soil contamination, Water pollution, Land pollution, Arizona, *Record of Decision, Second remedial action, Williams Air Force Base, Maricopa County(Arizona), Cleanup.

PB94-964515/REB Standing Order
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot, Operable Unit 1, Tracy, CA., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 142p EPA/ROD/R09-93/103
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Operable Unit No. 1 (OU No. 1) at the Defense Distribution Region West - Tracy, Tracy, California. This Record of Decision has been prepared for Operable Unit No. 1. Operable Unit No. 1 (OU No. 1) is defined as the contaminated groundwater plume, on and off base, emanating from DDRW-Tracy. This plume of contamination is primarily characterized by PCE and TCE, and secondarily characterized by other volatile organic compounds and potentially by inorganics and pesticides. This ROD is setting aquifer cleanup levels for PCE, TCE and DCE.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Supply depots, Military facilities, Inorganic compounds, Tetrachloroethylene, Dichloroethylene, Trichloroethylene, Pesticides, Ground water, Aquifers, Plumes, Remedial action, California, *Record of Decision, Tracy Supply Depot, Tracy(California), San Joaquin County(California), Volatile organic compounds, Cleanup.

PB94-964516/REB Standing Order
Superfund Record of Decision (EPA Region 9): Newmark Groundwater Contamination Site, San Bernardino, CA., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
4 Aug 93, 38p* EPA/ROD/R09-93/097
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Newmark Operable Unit, Newmark Groundwater Contamination Superfund site. EPA has selected an interim remedy for the Newmark plume of groundwater contamination in the Newmark Groundwater Contamination Superfund Site. This portion of the site cleanup is referred to as the Newmark Operable Unit (OU). The Newmark OU is an interim action focusing on contamination in the undergound water

supply in the Bunker Hill Basin of San Bernardino, north and east of the Shandin Hills.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Ground water, Plumes, Aquifers, Water supply, Drinking water, Remedial action, California, *Record of Decision, San Bernardino(California), San Bernardino County(California), Volatile organic compounds, Cleanup.

PB94-964517/REB Standing Order
Superfund Record of Decision (EPA Region 9): Liquid Gold Oil Corporation, Richmond, CA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
21 Jun 93, 16p* EPA/ROD/R09-93/091
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents the selected remedial action for the Liquid Gold Oil Corporation Superfund site (the Site) in Richmond, California. Interim remedial measures, begun in 1982, have included the removal of 25 storage tanks, 73 drums, 760 cubic yards of contaminated soils, and all remaining structures and debris. The final remedy addresses threats remaining after the interim measures. The major components of the selected remedy include: a deed restriction prohibiting residential development; grading, addition of soil, and seeding to control runoff patterns; groundwater monitoring for a minimum of five years; and removal of sediments and debris from two drainage channels leading to the adjacent marsh to mitigate possible past adverse impacts from Liquid Gold.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Debris, Phenols, Metals, Solvents, Waste oils, Marshes, Ground water, Sediments, Water pollution monitoring, Land pollution, Remedial action, California, *Record of Decision, Richmond(California), Contra Costa County(California), Cleanup.

PB94-964518/REB Standing Order
Superfund Record of Decision (EPA Region 9): Sharpe Army Depot, Operable Unit 1, Lathrop, CA., January 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 93, 96p* EPA/ROD/R09-93/089
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Defense Distribution Region West (DDRW)-Sharpe Site, in Lathrop, California. This operable unit is the first of two that are planned for the site. The first operable unit addresses VOC, arsenic, selenium, nitrate, and bromacil contaminated groundwater. The function of this operable unit is to prevent further migration of contaminated groundwater and capture the contaminant plumes.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Supply depots, Army facilities, Arsenic, Selenium, Nitrates, Ground water, Water treatment, Installation restoration, Remedial action, California, *Record of Decision, Sharpe Army Depot, Lathrop(California), San Joaquin County(California), Volatile organic compounds, Bromacil, Cleanup.

PB94-964519/REB Standing Order
Superfund Record of Decision (EPA Region 9): Fresno Sanitary Landfill Site, Fresno, CA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 23p* EPA/ROD/R09-93/099
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Record of Decision (ROD) presents the selected interim remedial action for the Fresno Sanitary Landfill Superfund site (the Site) in Fresno, California. This remdy is a source control operable unit (SCOU), and is an interim remedy. There will be a second and final operable unit ROD for the groundwater, off-site vadose soils and any ancillary issues. This selected remedy is an interim remedy because there is still subsequent remedial action to be undertaken at the site, but the SCOU ROD contains certain final ARARs for this portion of the cleanup.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Sanitary landfills, Polychlorinated biphenyls, Pesticides, Herbicides, Dioxins, Metals, Acids, Methane, Soil gases, Leachate, Soil contamination, Land pollution, Ground water, Water pollution, Capping, California, *Record of Decision, Cleanup, Second remedial action, Fresno(California), Fresno County(California), Landfill gases, Volatile organic compounds, Semivolatile organic compounds.

PB94-964520/REB Standing Order
Superfund Record of Decision (EPA Region 9): McColl Site, Source Operable Unit, Fullerton, CA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 77p* EPA/ROD/R09-93/095
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents the selected remedial action for the McColl Superfund site in Fullerton, California. This ROD selects a remedy for the source soils operable unit, addressing the waste and the contaminated surrounding soils. (Groundwater issues will be addressed in a later operable unit ROD.) The selected remedy will involve solidification of all soft material in each sump above the char/soft material interface.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Pipes, Arsenic, Phthalates, Naphthalene, Phenanthrene, Soil contamination, Soil treatment, Ambient air quality, Food chains, Ground water, Water pollution monitoring, Restrictions, Remedial action, California, *Record of Decision, Cleanup, Fullerton(California), Orange County(California), Fugitive dusts.

PB94-964521/REB Standing Order
Superfund Record of Decision (EPA Region 9): Sacramento Army Depot, Burn Pits Operable Unit, Sacramento, CA., February 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Feb 93, 90p* EPA/ROD/R09-93/087
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The purpose of the Record of Decision (ROD) is to set forth the remedial action to be conducted at the Sacramento Army Depot (SAAD) to remedy soil contamination associated with the Burn Pits. This is the fourth of several remedial actions addressing soil and groundwater contamination that may be conducted, or are currently being conducted at SAAD. Subsequent RODs will address other potential threats posed by conditions at SAAD, both on and off site. A final comprehensive ROD will address the entire facility prior to SAAD's closure in 1997.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Army facilities, Supply depots, Arsenic, Chromium, Lead(Matal), Metals, Polychlorinated biphenyls, Furans, Dioxins, Soil contamination, Land pollution, California, *Record of Decision, Cleanup, Fourth remedial action, Sacramento Army Depot, Sacramento(California), Sacramento County(California), Volatile organic compounds, Semivolatile organic compounds.

PB94-964522/REB Standing Order
Superfund Record of Decision (EPA Region 9): Lorentz Barrel and Drum Site, Operable Unit 1, San Jose, CA., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 93p* EPA/ROD/R09-93/094
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents the selected remedial actions for Operable Unit One (OU-1) at the Lorentz Barrel & Drum (LB&D) Superfund site in San Jose, California. This operable unit (OU-1) addresses all remaining sources of contamination not already addressed by the removal of barrels, drums, and soils completed in 1988; the removal of structures, sumps, drums, and debris scheduled for 1993 and 1994; and the Operble Unit 2 (OU-2) shallow groundwater extraction and treatment system. Therefore, the OU-1 remedy selected in this ROD is considered and referred to as the 'final remedy' for the LB&D site. While this remedy addresses contaminated soil, one of the principal threats at the LB&D site, OU-2 will continue to address the principal threat posed by contaminated shallow groundwater.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Polychlorinated biphenyls, Dioxins, Metals, Arsenic, Chromium, Lead(Metal), Pesticides, Soil contamination, Soil treatment, Soil gases, Ground water, Aquifers, Water pollution monitoring, Restrictions, Remedial action, California, *Record of Decision, Cleanup, San Jose(California), Santa Clara County(California), Volatile organic compounds.

PB94-964523/REB Standing Order
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 3, Los Angeles County, CA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 65p* EPA/ROD/R09-93/093
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Glendale South Operable Unit, San Fernando Valley Area 2 Superfund site. The remedy involves groundwater extraction and treatment for the shallow aquifer system in the Glendale area of the San Fernando Valley.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Trichloroethylene, Tetrachloroethylene, Nitrates, Ground water, Aquifers, Plumes, Water treatment, Remedial action, San Fernando Valley, California, *Record of Decision, Glendale(California), Los Angeles County(California), Volatile organic compounds, Cleanup.

PB94-964524/REB Standing Order
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1 through 4, Whittier Narrows Operable Unit, Los Angeles County, CA., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 44p* EPA/ROD/R09-93/088
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document represents the selection of the Monitoring Only Alternative for the Whittier Narrows Operable Unit in Los Angeles County, California, one of six operable units for the San Gabriel Valley Superfund Site, Areas 1 through 4.

Keywords: *Superfund, *Hazardous materials, *Waste management, San Gabriel Valley, Organic compounds, Ground water, Water pollution monitoring, Remedial action, Site characterization, California, *Record of Decision, Los Angeles County(California).

PB94-964525/REB Standing Order
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1-4, Suburban Water Systems/Bartolo Well Field Operable Unit, (Amendment), CA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 31p* EPA/ROD/R09-93/102
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all

others $200). Single copies also available in paper copy or microfiche.

This decision document presents the Amendment to the Record of Decision (ROD) for the Suburban Water Systems (SWS)/Bartolo Well Field Operable Unit, in the San Gabriel Valley Superfund Sites Areas 1-4. The remedy selected in the September 29, 1988 (PB89-225551) ROD for the SWS Bartolo Well Field OU consisted of the installation of a groundwater treatment system at the SWS Bartolo Well Field to treat water contaminated with perchloroethene (PCE) to 1 part per billion (ppb). This Amendment sets the treatment level for all contamination at the federal or state drinking water standard, whichever is lower. This Amendment also considers Southern California Air Quality Management District Regulation 13 and Rule 1401 as ARARs for the emissions control system of the treatment plant.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, San Gabriel Valley, Carbon tetrachloride, Ground water, Water systems, Water treatment, Remedial action, California, *Record of Decision, Cleanup, Los Angeles County(California), Volatile organic compounds, Perchloroethene, Tetrachloroethene.

PB94-964526/REB Standing Order
Superfund Record of Decision (EPA Region 9): McClellan Air Force Base, Operable Unit B1, CA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 89p* EPA/ROD/R09-93/104
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ROD presents the selected remedial action for Operable Unit (OU) B1 at McClellan AFB, Sacramento, CA. Operable Unit B1 includes the Defense Reutilization and Marketing Office (DRMO) storage lot and Civil Engineering storage lot at McClellan AFB. The main chemicals of concern are PCBs, dioxins, and furans which may have leaked from transformers stored at OU B1 or were constituents of waste oil supplied to soils to control dust. Part I outlines the purpose of the ROD and the selected remedy. Part II Sections 1.0 and 2.0 describe the site and Section 3.0 provides highlights of community participation. Part II Sections 4.0 and 5.0 present results from the RI, the potential for contaminant migration/transport from OU B1, and the current and future risks associated with OU B1. Section 6.0 identified the remedial action objectives and potential remedial alternatives. The final seven remedial alternatives are analyzed and compared to each other using the criteria established in the National Contingency Plan in Section 7.0. The selected remedy is presented in Section 8.0.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air force facilities, Transformers, Waste oils, Insulating oils, Polychlorinated biphenyls, Dioxins, Furans, Soil contamination, Dust, Sediments, Runoff, Land pollution, Remedial action, Installation restoration, California, *Record of Decision, Cleanup, McClellan Air Force Base, Sacramento(California), Sacramento County(California).

PB94-964527/REB Standing Order
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 2, Los Angeles County, CA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 65p* EPA/ROD/R09-93/092
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Glendale North Operable Unit, San Fernando Valley Area 2 Superfund site. The remedy involves groundwater extraction and treatment for the shallow aquifer system in the Glendale area of the San Fernando Valley.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Trichloroethylene, Tetrachloroethylene, Nitrates, Arsenic, Cadmium, Lead(Metal), Chromium, Mercury(Metal), Ground water, Aquifers, Plumes, Water treatment, Remedial action, San Fernando Valley, California, *Record of Decision, Glendale(California), Los Angeles County(California), Volatile organic compounds, Cleanup.

PB94-964528/REB Standing Order
Superfund Record of Decision (EPA Region 9): Applied Materials, Inc., Santa Clara, CA., August 1993. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 63p* EPA/ROD/R09-93/096
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Applied Materials Site, located in Santa Clara, CA. The EPA has determined that no further remedial action other than that already implemented at the site is required to ensure protection of human health and the environment. A remedy for groundwater contamination was previously selected and documented in the September 28, 1990 Record of Decision (ROD) (PB91-921492) for this site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Tetrachloroethylene, Trichloroethane, Dichloroethylene, Ground water, Aquifers, Water treatment, Water pollution monitoring, Soil contamination, Land pollution control, Restrictions, Remedial action, California, *Record of Decision, Cleanup, Santa Clara(California), Santa Clara County(California), Volatile organic compounds, Dichloroethane.

PB94-964529/REB Standing Order
Superfund Record of Decision (EPA Region 9): Motorola 52nd Street, Operable Unit 2, Phoenix, AZ., July 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 96p* EPA/ROD/R09-94/116
See also PB89-204861.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This Record of Decision (ROD) presents the interim remedial action the Arizona Department of Environmental Quality (ADEQ) and the United States Environmental Protection Agency (EPA) have selected for Operable Unit Two at the Motorola 52nd Street site in Phoenix, Arizona. This Record of Decision is for Operable Unit Two at the site, which is an area of contaminated groundwater downgradient of Operable Unit One. In comparing and selecting remedial alternatives for Operable Unit Two, effective and continued operation of Operable Unit One was assumed. The selected remedy is an interim remedy designed to address groundwater that is contaminated with volatile organic compounds (VOCs).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Metals, Boron, Fluoride, Nitrates, Cyanide, Ground water, Aquifers, Plumes, Water treatment, Arizona, *Record of Decision, Cleanup, Second remedial action, Phoenix(Arizona), Maricopa County(Arizona), Volatile organic compounds.

PB94-964530/REB Standing Order
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 1, AZ., April 1994. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 325p* EPA/ROD/R09-94/117
See also PB94-964514.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

Williams Air Force Base (WAFB) is located in Maricopa County, east of the city of Chandler, Arizona. This remedial action describes the cleanup of soil and ground water contaminated by explosives, pesticides, metals, and volatile organic compounds.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air force facilities, Landfills, Metals, Phthalates, Benzenes, Explosives, Pesticides, Soil contamination, Land pollution, Ground water, Water pollution, Installation restoration, Remedial action, Arizona, *Record of Decision, Cleanup, Williams Air Force Base, Maricopa County(Arizona), Volatile organic compounds.

PB94-964531/REB Standing Order
Superfund Record of Decision (EPA Region 9): Fort Ord, CA., February 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 94, 57p* EPA/ROD/R09-94/118
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the chosen Interim Action (IA) for soil remediation of selected areas at 41 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites on Fort Ord, California. IA at Fort Ord will likely be implemented before final remedial alternatives or cleanup levels for given chemicals have been established, but a conservative approach will be used in developing soil cleanup levels for these IA areas to reduce the likelihood of further remedial actions at an IA area.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Army facilities, Metals, Hydrocarbons, Soil contamination, Land pollution, Soil treatment, Remedial action, California, *Record of Decision, Cleanup, Fort Ord, Monterey County(California), Volatile organic compounds.

PB94-964603/REB Standing Order
Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island (Operable Unit 1, Areas 5 and 6), Oak Harbor, WA., December 1993. Final rept.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 94, 146p* EPA/ROD/R10-94/075
See also PB93-964609.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected final remedial action for Operable Unit (OU) 1, one of four operable units, at the Naval Air Station Whidbey Island, Ault Field, Superfund site near Oak Harbor, Washington. This remedial action addresses the risk to the public posed by volatile organic compounds in leachate and groundwater. The purpose of this action is to reduce the risk associated with the continued spread of the contaminated groundwater plume at Area 6 and remediate the groundwater through two different categories of actions. The second action category is groundwater controls, which are intended to prevent further movement of contaminated groundwater across the site boundary and to prevent consumption by area residents of groundwater exceeding maximum contaminant levels. Major components of the remedy include the following: Capping the Area 6 landfill operations area; Extracting groundwater from the shallow aquifer beneath the western boundary of the Area 6 landfill, treating it by air stripping; Monitoring groundwater; Monitoring off-site water supply wells; Monitoring groundwater in the shallow aquifer at Area 5 for inorganics; Implementing institutional control. The selected remedies are protective of human health and the environment, in compliance with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, and cost-effective.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval Air Stations, Ground water, Volatile organic compounds, Aquifers, Earth fills, Metals, Cleanup, Public health, Chromium, Lead(Metal), Risk assessment, Monitoring, Water wells, Strippers, Waste treatment, *Record of Decision, *Second remedial action, Oak Harbor(Washington State), Island County(Washington State), Air strippers.

PB94-964604/REB Standing Order
Superfund Record of Decision (EPA Region 10): Fairchild Air Force Base, Craig Road Landfill Operable Unit, Spokane, WA., February 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Feb 93, 68p* EPA/ROD/R10-93/053
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Craig Road Landfill (CRL) operable unit, Fairchild Air Force Base (AFB), Spokane, Washington. The selected remedy for the CRL includes elements from two different categories of actions. The first category is source controls, which are intended to minimize movement of contaminants from the fill material in the landfill to the groundwater and to prevent direct exposure to contaminated subsurface soil and debris. The second action category is groundwater controls. These controls are intended to prevent further movement of contaminated groundwater across the site boundary and to prevent consumption by area residents of groundwater exceeding maximum contaminant levels (MCL). The combination of both source control and groundwater control actions is necessary to achieve the broader objective of restoring contaminated groundwater in the upper aquifer to levels that are safe for drinking.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Air force facilities, Landfills, Ground water, Aquifers, Soil contamination, Water pollution, Land pollution, Remedial action, Installation restoration, Washington State, *Record of Decision, Fairchild Air Force Base, Spokane(Washington), Spokane County(Washington), Cleanup.

PB94-964605/REB Standing Order
Superfund Record of Decision (EPA Region 10): Naval Submarine Base, Operable Unit 3, Bangor, WA., March 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
28 Mar 94, 74p EPA/ROD/R10-94/076
See also PB92-964603.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected action for Operable Unit 3 (OU 3) at the Naval Submarine Base (SUBASE), Bangor in Silverdale, Washington. No action, with groundwater monitoring of the shallow aquifer at Site 25. Semiannual groundwater monitoring of the shallow aquifer is necessary to determine whether conditions in the groundwater reflect naturally occurring trends. A 5-year review is necessary to evaluate the need for continued groundwater monitoring at Site 25 and residential construction restrictions at Site 16/24.

Keywords: *Superfund, *Hazardous materials, *Waste management, Submarine bases, Ground water, Aquifers, Water pollution monitoring, Site characterization, Washington State, *Record of Decision, Third remedial action, Bangor Naval Submarine Base, Silverdale(Washington), Kitsap County(Washington).

PB94-964606/REB Standing Order
Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island, Ault Field, Operable Unit 2, Oak Harbor, WA., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
2 Jun 94, 98p EPA/ROD/R10-94/077
See also PB93-964609.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial actions for Operable Unit (OU) 2 (Areas 2/3, 4, 14, and 29) at Naval Air Station (NAS) Whidbey Island, Ault Field, a Superfund site near Oak Harbor, Washington. OU 2 is one of four operable units at NAS Whidbey. The selected remedial actions at Operable Unit 2 at NAS Whidbey Island, Ault Field, address the threats posed at the site by providing for surface soil removal, institutional controls, and groundwater monitoring. These actions will reduce the mobility of contamination and limit human exposure.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Naval air stations, Polychlorinated biphenyls, Metals, Pesticides, Dioxins, Polycyclic aromatic hydrocarbons, Ground water, Water pollution monitoring, Soil contamination, Land pollution, Remedial action, Washington State, *Record of Decision, Whidbey Island Naval Air Station, Ault Field, Oak Harbor(Washington), Island County(Washington), Volatile organic compounds, Cleanup.

PB94-964607/REB Standing Order
Superfund Record of Decision (EPA Region 10): Teledyne Wah Chang Albany Site, Millersburg, OR., June 1994.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
10 Jun 94, 218p EPA/ROD/R10-94/078
See also PB91-921414.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial actions for the Teledyne Wah Chang Albany Site (Site or TWCA Site), in Millersburg, Linn County, Oregon. The remedial actions described below are the final response actions planned for the groundwater and sediments operable unit at the Site. Teledyne Wah Chang Albany is an active operating facility which primarily manufactures zirconium metal from zircon sands. The processing of the zircon sands generates sludge, waste water, residues and gases as by-products. The cleanup actions described in this ROD address the threats to groundwater and sediment posed by radionuclides, metals, polychlorinated biphenyls (PCBs), methyl isobutyl ketone (MIBK), thrichloroethylene, tetrachloroethylene, 1,1,1-trichloroethane, and other contaminants at the Site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, *Radioactive wastes, Radioisotopes, Metals, Zirconium, Polychlorinated biphenyls, Methyl isobutyl ketone, Tetrochloroethylene, Trichloroethylene, Trichloroethane, Waste water, Sludge, Ground water, Sediments, Water pollution, Land pollution, Remedial action, Oregon, *Record of Decision, Millersburg(Oregon), Linn County(Oregon), Cleanup.

PB94-964608/REB Standing Order
Superfund Record of Decision (EPA Region 10): Bangor Naval Submarine Base, Operable Unit 5, Bangor, WA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
9 Sep 93, 34p EPA/ROD/R10-93/071
See also PB92-964603.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected action for Operable Unit (OU) 5 at the Naval Submarine Base (SUBASE), Bangor, in Bangor, Washington. No remedial action is necessary to ensure protection of human health and the environment. A 5-year review is not required. Using EPA guidelines and information developed during the site investigation, the Navy evaluated the potential adverse effects to human health and the environment associated with exposure to site chemicals. The potential exposure of workers and residents to chemicals detected at each site was estimated for current and future scenarios. The evaluation, performed according to EPA's NCP and policy guidance, indicated that no unacceptable risks are present at the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Submarine bases, Military facilities, Remedial action, Site characterization, Washington State, *Record of Decision, Bangor Naval Submarine Base, Bangor(Washington), Kitsap County(Washington).

PB94-964609/REB Standing Order
Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 1, Hermiston, OR., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 60p EPA/ROD/R10-93/055
See also PB93-964610.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for the Deactivation Furnace Soils Operable Unit at the U.S. Army Depot Activity, Umatilla (UMDA) in Hermiston, Oregon. The selected remedy addresses contaminated soils at the Deactivation Furnace Soils Operable Unit and is the final remedial action planned for those soils. The function of the remedy is to reduce the risks associated with exposure to surficial soils and thus address one of the principle threats at the site. The major components of the selected remedy include the following: excavation of soils surrounding the furnace having lead concentrations greater than 500 mg/kg (initially estimated to be 4,640 cubic yards or 6,264 tons of soil); solidification and stabilization treatment of the excavated soils; and on-site disposal of the treated soils in the UMDA Active Landfill.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Army facilities, Furnaces, Incinerators, Deactivation, Lead(Metal), Remedial action, Soil contamination, Oregon, *Record of Decision, Umatilla Army Depot, Hermiston(Oregon), Umatilla County(Oregon).

PB94-964610/REB Standing Order
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 12, Idaho Falls, ID., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
7 Dec 92, 20p EPA/ROD/R10-93/056
See also PB93-964603, PB93-964615, PB93-964616, and PB93-964617.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the remedial action selected for the Auxiliary Reactor Area-I (ARA-I) Chemical Evaporation Pond, Idaho National Engineering Laboratory Operable Unit 5-10. No remedial action is necessary at Operable Unit 5-10 to ensure protection of human health and the environment. A statutory 5-year review will not be required because hazardous substances do not remain onsite above health-based levels. Subsurface conditions and the groundwater pathway need further evaluation; consequently, additional investigations will be conducted in another Operable Unit within Waste Area Group 5.

Keywords: *Superfund, *Hazardous materials, *Waste management, Idaho National Engineering Laboratory, Ground water, Ponds, Water pollution monitoring, Remedial action, Site characterization, Idaho, *Record of Decision, Idaho Falls(Idaho), Bonneville County(Idaho).

PB94-964611/REB Standing Order
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 4, Idaho Falls, ID., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 58p EPA/ROD/R10-93/057
See also PB93-964603, PB93-964615, PB93-964616, and PB93-964617.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected final remedy (no remedial action with monitoring) for the Test Reactor Area Perched Water System, Operable Unit 2-12 at the Idaho National Engineering Laboratory. It has been determined that no remedial action is necessary for the Perched Water System at the Test Reactor Area to ensure protection of human health and the environment. The decision is based on the re-

sults of the human health and ecological risk assessments, which determined that conditions at the site pose no unacceptable risks to human health or the environment for expected current or future use of the Snake River Plain Aquifer beneath the Perched Water System at the Test Reactor Area.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Radioactive materials, Idaho National Engineering Laboratory, Test reactors, Surface waters, Ground water, Aquifers, Perched water, Water pollution monitoring, Radionuclide migration, Environmental transport, Remedial action, Site characterization, Idaho, *Record of Decision, Idaho Falls(Idaho), Bonneville County(Idaho), Snake River Plain Aquifer.

PB94-964612/REB Standing Order
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 9, Idaho Falls, ID., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 36p EPA/ROD/R10-93/058
See also PB93-964603, PB93-964615, PB93-964616, and PB94-964617.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the remedial action selected for the Central Facilities Area Motor Pool Pond at the Idaho National Engineering Laboratory (INEL), Operable Unit 4-11. It has been determined that no remedial action is necessary at this operable unit to ensure protection of human health and the environment. This determination is based on the results of the site-specific risk assessment, however, a risk assessment using default exposure factors indicates that hazardous substances may remain on the site above health-based levels. Therefore, five-year reviews will be conducted to confirm the assumptions used to arrive at the no remedial action decision.

Keywords: *Superfund, *Hazardous materials, *Waste management, Idaho National Engineering Laboratory, Surface waters, Ponds, Water pollution monitoring, Remedial action, Site characterization, Idaho, *Record of Decision, Idaho Falls(Idaho), Bonneville County(Idaho).

PB94-964613/REB Standing Order
Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 5, Hermiston, OR., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 53p EPA/ROD/R10-93/065
See also PB93-964610.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Decision Document presents the selected no-action remedial alternative for the Active Landfill Operable Unit at the U.S. Army Depot Activity, Umatilla (UMDA) in Hermiston, Oregon. The Army, EPA, and ODEQ have selected 'No Action' as the remedy for the Active Landfill Operable Unit at UMDA, in Hermiston, Oregon. This selection was made based upon information generated during the RI which indicates that the site does not pose an unacceptable threat to human health and/or the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Army facilities, Landfills, Ground water, Water pollution monitoring, Municipal wastes, Remedial action, Site characterization, Oregon, Installation restoration, *Record of Decision, Umatilla Army Depot, Hermiston(Oregon), Umatilla County(Oregon).

PB94-964614/REB Standing Order
Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 8, Hermiston, OR., August 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Aug 93, 60p EPA/ROD/R10-93/066
See also PB93-964610.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The Decision Document presents the selected no-action remedial alternative for the Inactive Landfills Operable Unit at the U.S. Army Depot Activity, Umatilla (UMDA) in Hermiston, Oregon. The Inactive Landfills Operable Unit (ILOU) is one of eight operable units at UMDA. The ILOU includes six discrete former disposal areas totalling an area of approximately 300,000 square feet, (approximately 8 acres) located west of the UMDA administration area. The selection was made based upon information generated during the RI which indicates that the site does not pose an unacceptable threat to human health and/or the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Army facilities, Landfills, Lagoons, Explosives, Ordnance, Lead(Metal), Soil contamination, Land pollution, Surface waters, Water pollution, Remedial action, Site characterization, Oregon, *Record of Decision, Umatilla Army Depot, Hermiston(Oregon), Umatilla County(Oregon).

PB94-964615/REB Standing Order
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 1B, Idaho Falls, ID., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 62p EPA/ROD/R10-93/070
See also PB93-964603, PB93-964615, PB93-964616, and PB93-964617.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The ROD addresses the contamination of Pit 9 at the Radioactive Waste Management Complex (RWMC), Subsurface Disposal Area (SDA), at the Idaho National Engineering Laboratory (INEL). The selected remedy for Pit 9 will use a combination of chemical extraction, physical separation, and/or stabilization technologies to recover contaminants and reduce the source of contamination. The major components of the remedy are: Proof-of-Process (POP) to demonstrate that designated performance objectives and cleanup criteria are attainable; Limited Production Test (LPT) to give a high degree of confidence that performance objectives and cleanup criteria can be met and all systems are reliable before full-scale remediation; Excavation and segregation of waste with greater than 10 nanocuries per gram transuranic (TRU) elements for input into the treatment process; Treatment of waste using chemical extraction, physical separation, and/or stabilization to remove radionuclides and hazardous constituents and to reduce the toxicity, mobility, and/or volume of those wastes that remain; Treatment of listed hazardous waste to levels which will allow for delisting of the waste (for material being returned to the pit) in accordance with the Resource Conservation and Recovery Act (RCRA) and the Idaho Hazardous Waste Management Act (HWMA); Return of treated materials to Pit 9 (treated materials will contain less or equal to 10 nanocuries per gram TRU elements and meet regulatory standards for hazardous substances of concern); Volume reduction by approximately 90% (for material undergoing treatment); and Onsite storage of concentrated waste residuals in accordance with ARAs until final disposal.

Keywords: *Superfund, *Hazardous materials, *Radioactive wastes, *Waste disposal, *Pollution control, Idaho National Engineering Laboratory, Transuranium compounds, Aquifers, Ground water, Soil contamination, Water pollution, Land pollution, Radioactive waste management, Remedial action, Idaho, *Record of Decision, Idaho Falls(Idaho), Bonneville County(Idaho), Snake River Plain Aquifer, Cleanup.

PB94-964616/REB Standing Order
Superfund Record of Decision (EPA Region 10): Mountain Home Air Force Base, Landfill No. 2, Operable Unit 2, Mountain Home, ID., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 93, 94p* EPA/ROD/R10-93/064
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected final remedial action for Landfill No. 2 (B Street Landfill, LF-02) at Mountain Home Air Force Base in Mountain Home, Idaho. USAF, EPA, and IDHW have determined that no remedial action is necessary under CERCLA at the B Street Landfill to ensure protection of human health and the environment. This decision is based on the results of the Remedial Investigation (RI) and baseline human health risk assessment and ecological evaluation. The risk assessment determined that hazardous substances remaining in the soil pose no unacceptable risks to human health remaining in the soil pose no unacceptable risks to human health or the environment under current and probable future use scenarios.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air force facilities, Landfills, Ground water, Water pollution monitoring, Remedial action, Site characterization, Idaho, *Record of Decision, Mountain Home Air Force Base, Mountain Home(Idaho), Elmore County(Idaho).

PB94-964617/REB Standing Order
Superfund Record of Decision (EPA Region 10): Queen City Farms, Maple Valley, WA., December 1992.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Dec 92, 128p* EPA/ROD/R10-93/054
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial actions for the Queen City Farms Site (Site or QCF Site), in Maple Valley, King County, Washington. The cleanup actions described in this ROD address the threats to ground water and soils posed by trichloroethene (TCE) and other contaminants at the site. Long-term management controls are necessary to maintain the integrity of the cleanup.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Debris, Soil contamination, Ground water, Aquifers, Surface waters, Land pollution, Water pollution monitoring, Remedial action, Washington State, *Record of Decision, Maple Valley(Washington), King County(Washington), Trichloroethene, Cleanup.

PB94-964618/REB Standing Order
Superfund Record of Decision (EPA Region 10): Fort Lewis Military Reservation, (Landfill 4 and the Solvent Refined Coal Pilot Plant), Pierce County, WA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 111p* EPA/ROD/R10-93/072
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial actions for two sites, Landfill 4 (LF4) and the Solvent Refined Coal Pilot Plant (SRCPP), located on the Fort Lewis Military Reservation, Pierce County, Washington. The selected remedy for LF4 includes treatment of suspected sources of groundwater contamination, treatment of contaminated groundwater, groundwater monitoring, and implementation of institutional controls to protect human health and the environment during remedial action.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Water pollution control, Army facilities, Landfills, Fossil-fuel power plants, Inorganic compounds, Ground water, Soil gases, Water pollution monitoring, Remedial action, Washington State, *Record of Decision, Cleanup, Fort Lewis Military Reservation, Pierce County(Washington), Landfill gases, Volatile organic compounds, Trichloroethene, Trihalomethanes.

PB94-964619/REB Standing Order
Superfund Record of Decision (EPA Region 10): Allied Plating Site, Portland, OR., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 123p* EPA/ROD/R10-93/059

Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the No Further Action Decision for the Allied Plating site, in Portland, Oregon. No Further Action is needed for protection of human health and the environment. Because the No Further Action decision will result in hazardous substances remaining on site above health based levels, a review will be conducted within five years after the commencement of the Removal Action to ensure that the remedy continues to provide adequate protection of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Waste water, Liquid wastes, Industrial wastes, Chromium, Nickel, Lead(Metal), Ground water, Water pollution monitoring, Site characterization, Remedial action, Oregon, *Record of Decision, Portland(Oregon), Multnomah County(Oregon).

PB94-964620/REB Standing Order
Superfund Record of Decision (EPA Region 10): Bonneville Power Administration Ross Complex Site (USDOE), Operable Unit 1, Vancouver, WA., May 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
May 93, 98p* EPA/ROD/R10-93/061
See also PB94-964622.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for Operable Unit A, one of two operable units, of the Bonneville Power Administration (BPA) Ross Complex Superfund site in Vancouver, Washington. The selected remedies for Operable Unit A (OUA) address the risk posed by the soil contamination at the site by removing and/or treating soil contamination to levels that are protective of human health and the environment and comply with Applicable or Relevant and Appropriate Requirements (ARARs).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Bonneville Power Administration, Metals, Polycyclic aromatic hydrocarbons, Furans, Dioxins, Polychlorinated biphenyls, Bases, Acids, Herbicides, Pesticides, Soil contamination, Land pollution, Soil treatment, Remedial action, Washington State, *Record of Decision, Cleanup, Ross Complex, Vancouver(Washington), Clark County(Washington), Volatile organic compounds.

PB94-964621/REB Standing Order
Superfund Record of Decision (EPA Region 10): Fairchild Air Force Base, 4 Areas, Operable Unit 2, WA., July 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 93, 198p* EPA/ROD/R10-93/068
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents in the selected remedial actions for the Priority 1 (P1) Operable Units. Fairchild Air Force Base (AFB), Spokane County, Washington. The ROD addresses soil and groundwater contamination at five P1 operable units. This is the second of three RODs planned for Fairchild Air Force Base. The first ROD, signed in February 1993, addressed contamination at the Craig Road Landfill operable unit. The third ROD will address the Priority Two (P2) operable units.

Keywords: *Superfund, *Hazardous materials, *Waste management, Air force facilities, Landfills, Ground water, Plumes, Water wells, Water pollution monitoring, Restrictions, Soil contamination, Land pollution control, Installation restoration, Site characterization, Washington State, *Record of Decision, Fairchild Air Force Base, Second remedial action, Spokane County(Washington), Trichloroethene.

PB94-964622/REB Standing Order
Superfund Record of Decision (EPA Region 10): Bonneville Power Administration Ross Complex Site (USDOE), Operable Unit 2, Vancouver, WA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 87p* EPA/ROD/R10-93/067
See also PB94-964620.
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial action for Operable Unit B (OUB), one of two operable units, of the Bonneville Power Administration (BPA) Ross Complex Superfund site in Vancouver, Washington. The selected remedies for Operable Unit B (OUB) address the risk posed by the soil contamination at the Fog Chamber Dump Trench Area 1 by capping and containing the contaminated soils and by requiring institutional controls at Trench Area 2. OUB consists of fog Chamber Dump Trench Areas 1 and 2, the Cold Creek Fill Area, shallow and deep groundwater, and surface water and sediments in Cold and Burnt Bridge Creeks.

Keywords: *Superfund, *Hazardous materials, *Waste management, Bonneville Power Administration, Herbicides, Pesticides, Metals, Organic compounds, Soil contamination, Land pollution control, Capping, Ground water, Aquifers, Surface waters, Water pollution monitoring, Remedial action, Site characterization, Washington State, *Record of Decision, Ross complex, Vancouver(Washington), Clark County(Washington).

PB94-964623/REB Standing Order
Superfund Record of Decision (EPA Region 10): American Crossarm and Conduit, Chehalis, WA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 72p* EPA/ROD/R10-93/060
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected final remedial action for the American Crossarm & Conduit (ACC) site, in Chehalis, Lewis County, Washington. The remedial action presented in this ROD addresses the remaining low-level threats (to human health and environment) by (1) demolish, remove and recycle existing facility structures, (2) removing the most highly contaminated soil on the facility to prevent human contact and future dispersion into the environment, (3) excavate soil from the Chehalis Ave. Area and consolidate it on the facility, (4) reducing gross floating product in groundwater beneath the facility to meet applicable or relevant and appropriate requirements (ARARs) at the facility boundary and prevent migration, (5) covering the facility with clean soil and vegetation to prevent human contact with and dispersion of the lessor contaminated soil, (6) invoking institutional controls at the facility to warn future property owners of potential threats and limit the use of the property (specifically to prevent intrusive activities), and (7) implementing performance monitoring to assess the effectiveness of the remedial action.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Pollution control, Pentachlorophenol, Polycyclic aromatic hydrocarbons, Dioxins, Furans, Benzene, Toluene, Ethyl benzene, Xylene, Soil contamination, Sludge, Ground water, Land pollution, Water pollution, Environmental monitoring, Water treatment, Remedial action, Washington State, *Record of Decision, Cleanup, Chehalis(Washington), Lewis County(Washington), Semivolatile organic compounds, Building demolition.

PB94-964624/REB Standing Order
Superfund Record of Decision (EPA Region 10): Hanford 1100 Area Site (USDOE), Benton County, WA., September 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Sep 93, 80p* EPA/ROD/R10-93/063
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The decision document presents the selected remedial actions for the USDOE Hanford 1100 Area, Hanford Site, Benton County, Washington. The selected remedy for the 1100 Area NPL Site addresses actual or threatened releases at the four 1100 Area Operable Units: 1100-EM-1, 1100-EM-2, 1100-EM-3, and 1100-IU-1.

Keywords: *Superfund, *Hazardous materials, *Waste pollution, *Pollution control, Hanford Reservation, Landfills, Phthalates, Polychlorinated biphenyls, Ground water, Soil contamination, Water pollution monitoring, Land pollution, Capping, Remedial action, Washington State, *Record of Decision, Cleanup, Benton County(Washington).

PB94-964625/REB Standing Order
Superfund Record of Decision (EPA Region 10): Alaskan Battery Enterprises, Fairbanks, AK., March 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Mar 93, 39p* EPA/ROD/R10-93/052
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

The document presents the decision by the U.S. Environmental Protection Agency (EPA) for No Further Action at the ABE Superfund Site (Site) in Fairbanks, Alaska. The removal actions conducted in 1988-89, and the excavation of soil for the Superfund Innovative Technology Evaluation (SITE) demonstration conducted in 1992, have reduced concentrations of contaminants in soils to levels that do not pose a risk to human health and the environment and have eliminated the need to conduct additional remedial action at the site. Groundwater monitoring will be conducted for a period of two years to confirm that the groundwater has not been contaminated.

Keywords: *Superfund, *Hazardous materials, *Waste management, Lead(Metal), Pentachlorophenol, Phenols, Arsenic, Ground water, Water pollution monitoring, Soil contamination, Land pollution, Remedial action, Site characterization, Alaska, *Record of Decision, Fairbanks(Alaska).

PB94-964626/REB Standing Order
Superfund Record of Decision (EPA Region 10): Commencement Bay Nearshore/Tideflats Site, Operable Unit 4, Ruston/North Tacoma Study Area, WA., June 1993.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 93, 82p* EPA/ROD/R10-93/062
Paper copy available on Standing Order, deposit account required ($100 U.S., Canada, and Mexico; all others $200). Single copies also available in paper copy or microfiche.

This decision document presents the selected remedial action for the Ruston/North Tacoma Study Area, in Ruston and Tacoma, Washington. The EPA has divided the Commencement Bay/Nearshore Tideflats Superfund site into seven operable units (OU's) in order to facilitate the investigation, analysis, and cleanup of this very large site. Four of these OU's are associated with the Asarco smelter: OU 02 - Asarco Tacoma Smelter; OU 04 - Asarco Off-Property (Ruston/North Tacoma Study Area); OU 06 - Asarco Sediments; and OU 07 - Asarco Demolition. The remedy described in this ROD addresses OU 04 and involves the cleanup of arsenic and lead contaminated soils and slag in the Study Area, the residential community surrounding the smelter. This remedy will address the principal threat posed by conditions at the site, which is the ingestion of contaminated soil and dust.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Smelters, Slag, Arsenic, Lead(Metal), Metals, Soil contamination, Dust, Remedial action, Washington State, *Record of Decision, Ruston(Washington), North Tacoma(Washington), Pierce County(Washington), Cleanup.

PB95-100269/REB PC A04/MF A01
Fuel Economy Guide, 1995. 6 Number.
Environmental Protection Agency, Ann Arbor, MI. Certification Div.
9 Sep 94, 57p*
See also PB94-100096, PB93-111201 and PB93-169357.

For each model year, the Energy Policy and Conservation Act requires that a compilation of fuel economy values be provided to the public. These data are intended to help the consumer compare the fuel economy of similar size cars, light-duty trucks, and special purpose vehicles. The adjusted and unadjusted fuel economy values are provided for city, highway, and a combination of city and highway driving. The unadjusted, or as tested, fuel economy values are as calculated during the testing of a vehicle on a chassis dynamometer. The adjusted fuel economy values have been adjusted to reflect conditions which would normally be encountered during actual driving. These values are always lower than the values calculated during the actual testing in laboratory controlled conditions. In addition, the interior volume and estimated annual fuel costs are provided. These data were submitted to the Environmental Protection Agency's Certification Division at the National Vehicle and Fuel Emissions Laboratory.

Keywords: *Fuel economy, *Motor vehicles, *Energy conservation, Tables(Data), Public information, Cost analysis, Study estimates, Energy Policy and Conservation Act.

PB95-100392/REB PC A07/MF A02
Environmental Protection Agency, Washington, DC. Office of Ground Water and Drinking Water.
Guidance Manual for Enhanced Coagulation and Enhanced Precipitative Softening.
Pirnie (Malcolm), Inc., White Plains, NY.
Sep 93, 150p
Sponsored by Environmental Protection Agency, Washington, DC. Office of Ground Water and Drinking Water.

The purpose of this document is to provide guidance in meeting the requirements of enhanced coagulation and enhanced precipitative softening for systems treating surface waters, or ground waters under the influence of surface waters, using conventional treatment or precipitative softening. This manual is directed towards a target audience that encompasses parties that will be assisting in the implementation of these treatment techniques; for example, water treatment plant operators, utility managers and engineers, and consulting engineers.

Keywords: *Water treatment, *Requirements, *Regulatory guides, Coagulation, Flocculation, Chemical precipitation, Water softening, Demineralization, Surface waters, Water pollution control, Drinking water, Potable water, Organic matter, Residues, Disinfectants, By-products, Manuals.

AD-A281 172/7/REB PC A18/MF A04
Institute for Water Resources (Army), Fort Belvoir, VA.
National Conference on Climate Change and Water Resources Management Proceedings (1st) Held in Albuquerque, New Mexico on November 4-7, 1991.
Environmental Protection Agency, Washington, DC.
T. M. Ballentine, and E. Z. Stakhiv. Dec 93, 411p IWR-93-R-17

Conference papers address issues of future water availability and future demand from the perspective of water resources managers. Papers address both practical and conceptual issues of hydrology and water management amidst a diversity of geographical region and response strategies. Other papers address response to climate change as it may be influenced by developing scientific, political, economic, institutional, environmental and associated issues, conditions and determinants. Papers which address assessments based on General Circulation Models, attempt to improve accuracy and the relevance of models to practical engineering solutions are also included. Climate change, Water resources, Water management, Global warming, Climate variability, Water policy, Hydrology, General circulation models.

Keywords: *Climate, *Water resources, *Resource management, Availability, Economics, Hydrology, Policies, Regions, Response, Strategy, Environmental management, Ecology, Environmental impact, Management planning and control, *Meetings, *Water pollution abatement, Global warming.

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PB94-117439/REB 94-01 PC **A04**/MF **A01**

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Whole Effluent Toxicity (WET) Control Policy: Policy for the Development of Effluent Limitations in National Pollutant Discharge Elimination System Permits to Control Whole Effluent Toxicity for the Protection of Aquatic Life.
PB94-214673/REB 94-04 PC **A05**/MF **A01**

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PB94-112828/REB 94-01 PC **A03**/MF **A01**

Will the Mouse Bioassay for Estimating Sensory Irritancy of Airborne Chemicals (ASTM E 981-84) Be Useful for Evaluation of Indoor Air Contaminants.
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Workshop on the Use of Available Data and Methods for Assessing the Ecological Risks of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin to Aquatic Life and Associated Wildlife. Held in Minneapolis, Minnesota on September 14-15, 1993.
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Workshop Report on Developmental Neurotoxic Effects Associated with Exposure to PCBs. Held in Research Triangle Park, North Carolina on September 14-15, 1992.
PB94-105335/REB 94-01 PC **A11**/MF **A03**

X-Cell Pseudotumors in a Hardhead Catfish 'Arius felis' (Ariidae) from Lake Pontchartrain, Louisiana, USA.
PB94-198165/REB 94-04 PC **A02**/MF **A01**

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Index entries in this section are selected to indicate important ideas and concepts presented in a report. When using the keyword index, be sure to look under terms narrower, broader, or related to a particular topic. Although some of the keywords are not selected from a controlled vocabulary of terms, most of them have been selected from the DoD, DoE, NASA, of NTIS controlled vocabularies. The entries are arranged by keyword and then by the NTIS order number.

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PB94-163672/REB 94-03 PC **A03**/MF **A01**

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PB94-101862/REB 94-01 PC **A03**/MF **A01**

Methane Emissions from Abandoned Underground Coal Mines.
PB94-190956/REB 94-04 PC **A02**/MF **A01**

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ABEL Model: Evaluates Claims of Inability to Afford Penalties and Compliance Costs (Version 2.4) (for Microcomputers).
PB94-501004/REB 94-02 Diskette$140.00

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Abundance and Viability of Striped Bass Eggs Spawned in the Roanoke River, North Carolina, in 1991.
PB94-188802/REB 94-04 PC **A06**/MF **A02**

ACCIDENT PREVENTION

Successful Practices in Title 3 Implementation. Chemical Emergency Preparedness and Prevention Technical Assistance Bulletin. State of Florida District 5 LEPC, Florida Monroe County, Michigan State of Alaska. Subject Index. Series 6, Number 10.
PB94-109626/REB 94-01 PC **A03**/MF **A01**

Interim Guidance for the Determination of Significant and Substantial Harm Facilities for Oil Pollution Act Response Plans.
PB94-963285/REB 94-04 Standing Order

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PB94-121308/REB 94-02 PC **A15**/MF **A03**

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PB94-107919/REB 94-01 PC **A03**/MF **A01**

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PB94-112943/REB 94-01 PC **A03**/MF **A01**

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PB94-114923/REB 94-01 PC **A17**/MF **A04**

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Implementation and Experimentation of an Advanced Land-Surface/PBL Model in the Penn State/NCAR Mesoscale Model (MM4).
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Characterization of Emissions from Carpet Samples Using a 10-Gallon Aquarium as the Source Chamber.
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CCA (CHROMATED COPPER ARSENATE)

Effects of Contaminants from Chromated Copper Arsenate-Treated Lumber on Benthos.
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CEDAR

Reregistration Eligibility Decision (RED): Cedarwood Oil.
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Environmental Impact Statement: Cedar Bay Cogeneration Project, Jacksonville, Florida.
PB94-145307/REB 94-02 PC A12/MF A03

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CELL CYCLE

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Fetal Dexamethasone Exposure Accelerates Development of Renal Function: Relationship to Dose, Cell Differentiation and Growth Inhibition.
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Unusual Eosinophilic Granule Cell Proliferation in Coho Salmon ('Oncorhynchus kisutch').
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Relationship of Neuropathy Target Esterase Inhibition to Neuropathology and Ataxia in Hens Given Organophosphorus Esters.
PB94-137247/REB 94-02 PC A02/MF A01

Administration of 3,3'-Iminodipropionitrile to the Rat Results in Region-Dependent Damage to the Central Nervous System at Levels Above the Brain Stem.
PB94-137296/REB 94-02 PC A02/MF A01

CENTRAL VALLEY (CALIFORNIA)

Impairment of Growth and Immune Function of Avocet Chicks from Sites with Elevated Selenium, Arsenic, and Boron.
PB94-210507/REB 94-04 PC A03/MF A01

CERAMIC PLATE DIFFUSERS

Oxygen Transfer Efficiency Surveys at the South Shore Wastewater Treatment Plant, 1985-1987.
PB94-200870/REB 94-04 PC A03/MF A01

Case History Report on Milwaukee Ceramic Plate Aeration Facilities.
PB94-200946/REB 94-04 PC A05/MF A02

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PB94-963706/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Peterson/Puritan Site, Operable Unit 1, Cumberland/Lincoln, RI., September 1993.
PB94-963707/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Otis Air National Guard/Camp Edwards, MA., January 1993.
PB94-963708/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Newport Naval Education/Training Center, Newport, RI., September 1993.
PB94-963709/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Salem Acres Site, Salem, MA., March 1993.
PB94-963711/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Naval Construction Battalion Center, Sites 12 and 14, Davisville, RI., September 1993.
PB94-963712/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Somersworth Sanitary Landfill Site, Somersworth, NH., June 1994.
PB94-963713/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Central Landfill Site, Operable Unit One, Johnston, RI., June 1994.
PB94-963714/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Fried Industries Site, East Brunswick, NJ., June 1994.
PB94-963801/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Kenmark Textile Printing Corporation, Babylon, NY., March 1994.
PB94-963802/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Oswego, NY., December 1993.
PB94-963803/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Juncos Landfill Site (Operable Unit 2), Juncos, PR., October 1993.
PB94-963804/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): NL Industries, Inc., Pedricktown, NJ., July 1994.
PB94-963805/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Universal Oil Products (Chemical Division), Borough of East Rutherford, Bergen County, NY., September 1993.
PB94-963806/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Tronic Plating, Farmingdale, NY., September 1993.
PB94-963807/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Wilson Farm, Plumsted Township, Ocean County, NJ., August 1993.
PB94-963806/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Woodland Township, Route 72 and Route 532 Dump Sites, Burlington County, Chatsworth, NJ., September 1993.
PB94-963809/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Monroe Township Landfill, Middlesex County, NJ., March 1993.
PB94-963811/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, Plattsburgh, NY., March 1993.
PB94-963812/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Preferred Plating Corporation, Farmingdale, NY., September 1993.
PB94-963813/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, (Operable Unit 13), Lakehurst, NJ., September 1993.
PB94-963814/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2); Naval Air Engineering Center, Operable Unit 10, Lakehurst, NJ., September 1993.
PB94-963815/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 8, Lakehurst, NJ., June 1993.
PB94-963816/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 11, Lakehurst, NJ., September 1993.
PB94-963817/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 9, Lakehurst, NJ., June 1993.
PB94-963818/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 12, Lakehurst, NJ., September 1993.
PB94-963819/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): SMS Instruments, Suffolk County, Deer Park, NY., September 1993.
PB94-963820/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Niagara County Refuse, NY., September 1993.
PB94-963821/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Johnstown City Landfill, NY., March 1993.
PB94-963822/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Janssen, Inc., Site, Gurabo, PR., September 1993.
PB94-963823/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Lodi Municipal Wells, NJ., September 1993.
PB94-963824/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Robintech/National Pipe, Operable Unit 2, Town of Vestal, Broome County, NY., March 1993.
PB94-963825/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Reynolds Metals Company Site, Massena, NY., September 1993.
PB94-963826/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Engineering Center, Operable Unit 14, Lakehurst, NJ., September 1993.
PB94-963827/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 15, Lakehurst, NJ., September 1993.
PB94-963828/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 22, Lakehurst, NJ., September 1993.
PB94-963829/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 23, Lakehurst, NJ., September 1993.
PB94-963830/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Batavia Landfill Site, Town of Batavia, Genesee County, NY., March 1993.
PB94-963831/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): American Cyanamid Site, Operable Unit 1, Bridgewater Township, Somerset County, NJ., September 1993.
PB94-963832/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): FMC Dublin Road Site, Orleans County, NY., March 1993.
PB94-963833/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Rockaway Township Wellfield, Rockaway, NJ., October 1993.
PB94-963834/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Hranica Landfill Site (Operable Unit 2), Butler County, PA., May 1994.
PB94-963901/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Aladdin Plating Site (Operable Unit 2), Lackawanna County, PA., December 1993.
PB94-963902/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Revere Chemical Site, Nockamixon Township, Bucks County, PA., December 1993.
PB94-963903/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): U.S. Defense General Supply Center, Operable Unit 9, Chesterfield County, VA., September 1993.
PB94-963904/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Naval Air Development Center, Operable Unit 1, Bucks County, PA., September 1993.
PB94-963905/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): William Dick Lagoons, West Cain Township, Chester County, PA., March 1993.
PB94-963906/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Woodlawn County Landfill, Colora, MD., September 1993.
PB94-963907/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Recticon/Allied Steel, Parker Ford, PA., June 1993.
PB94-963908/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Ohio River Park, Operable Unit 2, Neville Island, PA., March 1993.
PB94-963909/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Occidental Chemical Corporation, Montgomery County, PA., June 1993.
PB94-963910/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Novak Sanitary Landfill, Lehigh County, PA., September 1993.
PB94-963911/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Rentokil/Virginia Wood Preserving, Richmond, VA., June 1993.
PB94-963912/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Eastern Diversified Metals, Operable Unit 2, Hometown, PA., September 1993.
PB94-963913/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Delaware Sand and Gravel Site, (Amendment), New Castle, DE., September 1993.
PB94-963914/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Dover Air Force Base, DE., November 1992.
PB94-963915/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Duell-Gardner Landfill Site, Muskegon County, MI., September 1993.
PB94-963916/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Saegertown Industrial Area Site, Crawford County, PA., January 1993.
PB94-963917/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Austin Avenue Radiation Site, Delaware County, PA., June 1994.
PB94-963918/REB 94-04 Standing Order

Superfund Record of Decison (EPA Region 3): North Penn Area 1 Site, Souderton, PA., September 1994.
PB94-963920/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Bell Landfill Superfund Site, Bradford County, PA., September 1994.
PB94-963921/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Buckingham County Landfill Superfund Site, VA., September 1994.
PB94-963922/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Company Site, Pontiac, SC. (Interim Remedial Action), December 1993.
PB94-964001/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant Site, Paducah, KY., March 1994.
PB94-964003/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
PB94-964006/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
PB94-964008/REB 94-04 Standing Order

Superfund Record of Decision (Region 4): General Tire Landfill Site, Mayfield, KY., October 1993.
PB94-964009/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
PB94-964016/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): T, H, Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
PB94-964017/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
PB94-964020/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
PB94-964021/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
PB94-964022/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4); USDOE Oak Ridge Reservation, Operable Unit 17, Oak Ridge, TN., October 1992.
PB94-964023/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Koppers (Morrisville Plant), Morrisville, NC., December 1992.
PB94-964026/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL., October 1992.
PB94-964028/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Redwing Carriers/Saraland, Mobile County, AL., December 1992.
PB94-964030/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ParaChem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
PB94-964035/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
PB94-964036/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
PB94-964037/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964038/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Jacksonville, NC., January 1993.
PB94-964039/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
PB94-964046/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
PB94-964047/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
PB94-964048/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
PB94-964053/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
PB94-964128/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): N. W. Mauthe Site, Appleton, WI., March 1994.
PB94-964129/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
PB94-964131/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
PB94-964132/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
PB94-964133/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
PB94-964201/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
PB94-964202/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
PB94-964203/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
PB94-964204/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
PB94-964205/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
PB94-964206/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
PB94-964207/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
PB94-964208/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
PB94-964209/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
PB94-964301/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
PB94-964302/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
PB94-964303/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
PB94-964304/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
PB94-964305/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
PB94-964306/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
PB94-964307/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
PB94-964308/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
PB94-964309/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
PB94-964310/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
PB94-964311/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
PB94-964312/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant National Priorities List Site, Butte, MT., September 1993.
PB94-964401/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
PB94-964402/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
PB94-964405/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
PB94-964406/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant, Butte, MT., September 1993.
PB94-964407/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
PB94-964408/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
PB94-964409/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
PB94-964410/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
PB94-964411/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
PB94-964412/REB 94-04 Standing Order

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PB94-157336/REB 94-03 PC A03/MF A01

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Field Study to Evaluate Leaching of Aldicarb, Metolachlor, and Bromide in a Sandy Loam Soil.
PB94-119969/REB 94-01 PC A03/MF A01

Protect Yourself from Pesticides: Guide for Agricultural Workers (Protejase de los Pesticidas: Guia para los Trabajadores Agricolas).
PB94-120292/REB 94-01 PC A03/MF A01

NTP Technical Report on Toxicity Studies of Pesticide/Fertilizer Mixtures Administered in Drinking Water to F344/N Rats and B6C3F1 Mice.
PB94-121035/REB 94-01 PC A08/MF A02

Methods for the Determination of Nonconventional Pesticides in Municipal and Industrial Wastewater. Volume 1.
PB94-121654/REB 94-01 PC A99/MF E08

Development Document for Effluent Limitations Guidelines, Pretreatment Standards, and New Source Performance Standards for the Pesticide Chemicals Manufacturing Point Source Category.
PB94-122470/REB 94-02 PC A18/MF A04

Reregistration Eligibility Decision (RED): Glyphosate.
PB94-127917/REB 94-02 PC A12/MF A03

Interim Protocol for Testing the Effects of Microbial Pathogens on Spiders (Arachnida: Aranae).
PB94-130366/REB 94-02 PC A03/MF A01

Pesticide Reregistration Progress Report, October 1992.
PB94-131729/REB 94-02 PC A03/MF A01

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PB94-132196/REB 94-02 PC A10/MF A03

Pesticide Reregistration Progress Report, October 1993.
PB94-133832/REB 94-02 PC A03/MF A01

Depth Dependence of Direct and Indirect Photolysis on Soil Surfaces.
PB94-135068/REB 94-02 PC A02/MF A01

Influence of the Formamidine Pesticide Chlordimeform on Ovulation in the Female Hamster; Dissociable Shifts in the Luteinizing Hormone Surge and Oocyte Release.
PB94-137148/REB 94-02 PC A03/MF A01

RED Facts: Thymol.
PB94-139003/REB 94-02 PC A06/MF A02

RED Facts: Thymol.
PB94-139102/REB 94-02 PC A02/MF A01

Reregistration Eligibility Decision (RED): Cedarwood Oil.
PB94-139615/REB 94-02 PC A07/MF A02

Pesticide Fact Sheet: Inorganic Arsenical Pesticides.
PB94-139631/REB 94-02 PC A01/MF A01

RED Facts: Wood Oils and Gums (Cedarwood Oil).
PB94-140001/REB 94-02 PC A01/MF A01

RED Facts: Lauryl Sulfate Salts.
PB94-140019/REB 94-02 PC A01/MF A01

RED Facts: Sulfuryl Fluoride.
PB94-140027/REB 94-02 PC A01/MF A01

Pesticide Fact Sheet: Hydrogen Cyanamide.
PB94-140035/REB 94-02 PC A03/MF A01

RED Facts: Sulfuryl Fluoride.
PB94-140134/REB 94-02 PC A06/MF A02

Pesticide Inputs and Risks in Coastal Wetlands.
PB94-140647/REB 94-02 PC A02/MF A01

RED Facts: Lauryl Sulfate Salts.
PB94-142924/REB 94-02 PC A07/MF A02

Protect Yourself from Pesticides: Guide for Pesticide Handlers.
PB94-149929/REB 94-02 PC A06/MF A02

Pesticide Fact Sheet: Arsenic Acid (H3AsO4) (January 1994).
PB94-150877/REB 94-02 PC A01/MF A01

Reregistration Eligibility Decision (RED): Peroxy Compounds.
PB94-151529/REB 94-02 PC A09/MF A02

RED Facts: Peroxy Compounds.
PB94-151743/REB 94-02 PC A02/MF A01

Pesticide Fact Sheet: Cyproconazole.
PB94-151990/REB 94-02 PC A03/MF A01

Reregistration Eligibility Decision (RED): Flower and Vegetable Oils.
PB94-152048/REB 94-02 PC A10/MF A03

Reregistration Eligibility Decision (RED): Bromine.
PB94-152055/REB 94-02 PC A07/MF A02

RED Facts: Inorganic Halides.
PB94-152121/REB 94-02 PC A02/MF A01

Reregistration Eligibility Decision (RED): Inorganic Halides.
PB94-152790/REB 94-02 PC A07/MF A02

RED Facts: Bromine.
PB94-152923/REB 94-02 PC A02/MF A01

RED Facts: Flower and Vegetable Oils.
PB94-152931/REB 94-02 PC A01/MF A01

RED Facts: Lithium Hypochlorite.
PB94-152949/REB 94-02 PC A02/MF A01

Review of Methods for Assessing Aquifer Sensitivity and Ground Water Vulnerability to Pesticide Contamination.
PB94-154127/REB 94-03 PC A09/MF A02

Reregistration Eligibility Decision (RED): Mineral Acids.
PB94-154242/REB 94-02 PC A13/MF A03

Reregistration Eligibility Decision (RED): Lithium Hypochlorite.
PB94-154259/REB 94-02 PC A07/MF A02

Reregistration Eligibility Decision (RED): Barium Metaborate.
PB94-154317/REB 94-02 PC A05/MF A01

RED Facts: Barium Metaborate.
PB94-154481/REB 94-02 PC A02/MF A01

RED Facts: Mineral Acids.
PB94-154572/REB 94-02 PC A02/MF A01

Effects of Dietary Exposure to Forest Pesticides on the Brown Garden Snail 'Helix aspersa' Mueller.
PB94-157211/REB 94-03 PC A02/MF A01

Reregistration Eligibility Decision (RED): Boric Acid and its Sodium Salts.
PB94-160017/REB 94-03 PC A09/MF A03

Regionalization of the Western Corn Belt Plains Ecoregion.
PB94-160579/REB 94-03 PC A07/MF A02

Agricultural Insecticide Runoff Effects on Estuarine Organisms: Correlating Laboratory and Field Toxicity Tests, Ecophysiology Bioassays, and Ecotoxicological Biomonitoring.
PB94-160678/REB 94-03 PC A14/MF A03

Pesticide Fact Sheet: (E,E) - 8.10-Dodecadien-1-o1.
PB94-161437/REB 94-03 PC A01/MF A01

RED Facts: Boric Acid.
PB94-161668/REB 94-03 PC A02/MF A01

Pesticide Fact Sheet: Deltramethrin.
PB94-161916/REB 94-03 PC A02/MF A01

RED Facts: Glyphosate.
PB94-163417/REB 94-03 PC A02/MF A01

Biomagnification of Bioassay Derived 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Equivalents.
PB94-163599/REB 94-03 PC A03/MF A01

Analyses of Cytogenetic Damage in Rodents Following Exposure to Simulated Groundwater Contaminated with Pesticides and a Fertilizer.
PB94-163839/REB 94-03 PC A03/MF A01

Methods for the Determination of Nonconventional Pesticides in Municipal and Industrial Wastewater, Volume 2.
PB94-166311/REB 94-03 PC A17/MF A04

Pesticide Reregistration Progress Report, January 1994.
PB94-166386/REB 94-03 PC A03/MF A01

Reregistration Eligibility Decision (RED): Methiocarb.
PB94-166394/REB 94-03 PC A10/MF A03

Reregistration Eligibility Decision (RED): Tri(hydroxymethyl) nitromethane.
PB94-166402/REB 94-03 PC A09/MF A02

RED Facts: Methiocarb.
PB94-168069/REB 94-03 PC A02/MF A01

RED Facts: 2-((Hydroxymethyl)-amino)ethanol.
PB94-168077/REB 94-03 PC A01/MF A01

RED Facts: Tris(hydroxymethyl)-nitromethane.
PB94-168135/REB 94-03 PC A02/MF A01

PATRIOT: A Methodology and Decision Support System for Evaluating the Leaching Potential of Pesticides.
PB94-168374/REB 94-03 PC A03/MF A01

Trophic Transfer of Contaminants from Organisms Living by Chromated-Copper-Arsenate (CCA)-Treated Wood to Their Predators.
PB94-170073/REB 94-03 PC **A03**/MF **A01**

Reregistration Eligibility Decision (RED): 2-((Hydroxy-Methyl)Amino)ethanol.
PB94-171907/REB 94-03 PC **A07**/MF **A02**

Evaluation of Equilibrium Partitioning Theory for Predicting Acute Toxicity of Field-Collected Sediments Contaminated with DDT, DDE and DDD to the Amphipod 'Hyalella Azteca'.
PB94-176146/REB 94-03 PC **A03**/MF **A01**

Organic Carbon Partitioning as a Basis for Predicting the Toxicity of Chlorpyrifos in Sediments.
PB94-176153/REB 94-03 PC **A02**/MF **A01**

Influence of Age on the Relative Sensitivity of 'Hyalella azteca' to Diazinon, Alkylphenol Ethoxylates, Copper, Cadmium, and Zinc.
PB94-176187/REB 94-03 PC **A01**/MF **A01**

Pilot Monitoring Project for 14 Pesticides in Maryland Surface Waters.
PB94-180734/REB 94-03 PC **A06**/MF **A02**

Cost-Effectiveness Analysis of Proposed Effluent Limitations Guidelines and Standards for the Pesticide Formulating, Packaging and Repackaging Industry.
PB94-180767/REB 94-03 PC **A03**/MF **A01**

Economic Impact Analysis of Proposed Effluent Limitations Guidelines and Standards for the Pesticide Formulating, Packaging, and Repackaging Industry.
PB94-181401/REB 94-03 PC **A22**/MF **A04**

Assessment of Salinity Effects on the Toxicity of Atrazine to Chesapeake Bay Species: Data Needs for Development of Estuarine Aquatic Life Criteria.
PB94-181526/REB 94-03 PC **A03**/MF **A01**

Updated Review of Estuarine Aquatic Toxicity Data for the Development of Aquatic Life Criteria for Atrazine in Chesapeake Bay. Phase 2 Report.
PB94-181534/REB 94-03 PC **A06**/MF **A02**

Development Document for Best Available Technology, Pretreatment Technology, and New Source Performance Technology for the Pesticide Formulating, Packaging, and Repackaging Industry. Proposed.
PB94-181709/REB 94-03 PC **A23**/MF **A04**

Comparative Toxicity of Azinphos-Methyl to House Mice, Laboratory Mice, Deer Mice, and Gray-Tailed Voles.
PB94-182367/REB 94-03 PC **A02**/MF **A01**

Standard Evaluation Procedure: End-Use Product Review.
PB94-183217/REB 94-03 PC **A04**/MF **A01**

Pesticide Fact Sheet: E-II Tetradecenyl Acetate; E-11 Tetradecenol.
PB94-183290/REB 94-04 PC **A01**/MF **A01**

Pesticide Fact Sheet: Cinnamaldehyde, Cinnamyl Alcohol, 4-Methoxy Cinnamaldehyde, 3-Phenyl Propanol, 4-Methoxy Phenethyl Alcohol, Indole and 1,2,4 Trimethoxybenzene.
PB94-183621/REB 94-04 PC **A01**/MF **A01**

PR Notice 94-1. Notice to Manufacturers, Producers, Formulators, Distributors, and Registrants of Pesticide Products. Withdrawal of PR Notice 91-8.
PB94-184249/REB 94-03 PC **A02**/MF **A02**

PR Notice 94-2. Notice to Manufacturers, Formulators, Producers and Registrants of Pesticide Products. Recycling Empty Aerosol Pesticide Containers.
PB94-184306/REB 94-03 PC **A01**/MF **A01**

Pesticide Reregistration Progress Report, July 1991.
PB94-187168/REB 94-03 PC **A03**/MF **A01**

Reregistration Eligibility Decision (RED): Tebuthiuron. (List A; Case 0054).
PB94-187259/REB 94-03 PC **A09**/MF **A02**

Status of Pesticides in Reregistration and Special Review (Rainbow Report), June 1994.
PB94-187408/REB 94-03 PC **A16**/MF **A03**

Reregistration Eligibility Decision (RED): Periplanone B.
PB94-187523/REB 94-04 PC **A06**/MF **A02**

RED Facts: Tebuthiuron.
PB94-187747/REB 94-04 PC **A01**/MF **A01**

Pesticide Reregistration Program Report, April 1994.
PB94-187754/REB 94-04 PC **A03**/MF **A01**

Reregistration Eligibility Document (RED): Glyphosate. Appendix A. Use Patterns Subject to Reregistration.
PB94-188851/REB 94-04 PC **A09**/MF **A03**

Interpretation of Toxicity Response of Bobwhite Quail with Respect to Duration of Exposure.
PB94-190527/REB 94-04 PC **A03**/MF **A01**

Thermoregulatory Effects of Chlorpyrifos in the Rat: Long-Term Changes in Cholinergic and Noradrenergic Sensitivity.
PB94-197142/REB 94-04 PC **A03**/MF **A01**

RED Facts: Hexadecadienol Acetates.
PB94-203106/REB 94-04 PC **A02**/MF **A01**

Reregistration Eligibility Decision (RED): Hexadecadienol Acetates.
PB94-203189/REB 94-04 PC **A09**/MF **A02**

Reregistration Eligibility Decision (RED): N6-Benzyladenine.
PB94-203239/REB 94-04 PC **A07**/MF **A02**

RED Facts: Pronamide.
PB94-203361/REB 94-04 PC **A02**/MF **A01**

Pesticide Fact Sheet: 'Bacillus subtilis' MBI 600.
PB94-203494/REB 94-04 PC **A02**/MF **A01**

Reregistration Eligibility Decision (RED): Pronamide.
PB94-204112/REB 94-04 Subscription

Pesticide Fact Sheet: Ampelomyces quisqualis isolate M10.
PB94-204971/REB 94-04 PC **A02**/MF **A01**

Potential Ecological and Nontarget Effects of Transgenic Plant Gene Products on Agriculture, Silviculture, and Natural Ecosystems: General Introduction.
PB94-209723/REB 94-04 PC **A02**/MF **A01**

Toxicity of Guthion (Trade Name) and Guthion (Trade Name) 2S to 'Xenopus laevis' Embryos.
PB94-209731/REB 94-04 PC **A02**/MF **A01**

Pesticide Fact Sheet: Difenoconazole/Dividend (Trade Name) Fungicide.
PB94-214525/REB 94-04 PC **A03**/MF **A01**

Pesticide Fact Sheet: Hexaflumuron.
PB94-219029/REB 94-04 PC **A02**/MF **A01**

Pesticide Compact Label File - 1990 Updates.
PB94-911600/REB 94-02 Subscription

Pesticide Compact Label File - 1994 (Fiche 1 - 5886).
PB94-911699/REB 94-01 MF**$3531.60**

PETROLEUM PRODUCTS

Initial Screening of Thermal Desorption for Soil Remediation.
PB94-112810/REB 94-01 PC **A03**/MF **A01**

Treatment of Nonhazardous Petroleum-Contaminated Soils by Thermal Desorption Technologies.
PB94-135118/REB 94-02 PC **A03**/MF **A01**

Thermal Desorption, Now You're Cookin'. Hot Technology: How It Works, What It Costs, Where's It Going.
PB94-135126/REB 94-02 PC **A03**/MF **A01**

Engineering Application of Biooxidation Processes for Treating Petroleum-Contaminated Soil.
PB94-162724/REB 94-03 PC **A03**/MF **A01**

Critical Review of Analytical Approaches for Petroleum Contaminated Soil.
PB94-190584/REB 94-04 PC **A03**/MF **A01**

PETROLEUM REFINERIES

Independent Quality Assurance of Refinery Fugitives Testing by Western States Petroleum Association. Final Audit Report.
PB94-131232/REB 94-02 PC **A08**/MF **A02**

Economic Impact Analysis for the Petroleum Refineries NESHAP.
PB94-193661/REB 94-04 PC **A07**/MF **A02**

Regulatory Impact Analysis for the Petroleum Refineries NESHAP.
PB94-194586/REB 94-04 PC **A10**/MF **A03**

PETROLEUM REFINING

Amoco-U.S. EPA Pollution Prevention Project, Yorktown, Virginia: Projects, Evaluations, and Rankings.
PB92-228626/REB 94-02 PC **A12**/MF **A03**

PGC (PORTABLE GAS CHROMATOGRAPH)

Field Comparison of Portable Gas Chromatographs with Method TO-14.
PB94-159027/REB 94-03 PC **A03**/MF **A01**

PH

Effects of Water Temperature and pH on Toxicity of Terbufos, Trichlorfon, 4-Nitrophenol and 2,4-Dinitrophenol to the Amphipod 'Gammarus pseudolimnaeus' and Rainbow Trout ('Oncorhynchus mykiss').
PB94-158748/REB 94-03 PC **A03**/MF **A01**

pH-Dependent Toxicity of Cd, Cu, Ni, Pb and Zn to 'Ceriodaphnia dubia', 'Pimephales promelas', 'Hyalella azteca' and 'Lumbriculus variegatus'.
PB94-163722/REB 94-03 PC **A02**/MF **A01**

Lowering pH Increases Embryonic Sensitivity to Formate in Whole Embryo Culture.
PB94-163789/REB 94-03 PC **A02**/MF **A01**

Assessment of pH Control of Process Waters in Selected Plants.
PB94-194859/REB 94-04 PC **A14**/MF **A03**

PHARMACOKINETICS

Physiologically Based Pharmacokinetic Model for 2,3,7,8-Tetrabromodibenzo-p-Dioxin (TBDD) in the Rat: Tissue Distribution and CYP1A Induction.
PB94-101565/REB 94-01 PC **A03**/MF **A01**

Predicting Branchial and Cutaneous Uptake of 2,2',5,5'-Tetrachlorobiphenyl in Fathead Minnows ('Pimephales promelas') and Japanese Medaka ('Oryzias latipes'): Rate Limiting Factors.
PB94-130168/REB 94-02 PC **A03**/MF **A01**

Effects of Dose and Routes of Exposure on the Disposition of 2,3,7,8-((3)H)Tetrabromodibenzo-p-dioxin (TBDD) in the Rat.
PB94-137122/REB 94-02 PC **A03**/MF **A01**

Deposition Patterns of Aerosolized Drugs within Human Lungs: Effects of Ventilatory Parameters.
PB94-137239/REB 94-02 PC **A02**/MF **A01**

Effects of Dose and Route of Exposure on Dioxin Disposition.
PB94-137304/REB 94-02 PC **A02**/MF **A01**

Toxicokinetics and Structure-Activity Relationships of Nine Para-Substituted Phenols in Rat Embryos in vitro.
PB94-143740/REB 94-02 PC **A03**/MF **A01**

Application of Pharmacokinetic Models to Predict Target Dose (Chapter 2).
PB94-190345/REB 94-04 PC **A03**/MF **A01**

Physiologically-Based Pharmacokinetic Modeling.
PB94-197175/REB 94-04 PC **A02**/MF **A01**

Coupled Mass and Energy Transport Phenomena during Breathing of High Volume Aqueous Aerosols.
PB94-202074/REB 94-04 PC **A03**/MF **A01**

Comparative Molecular Field Analysis of Polyhalogenated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls.
PB94-202108/REB 94-04 PC **A02**/MF **A01**

Deposition Patterns of Polydisperse Aerosols within Human Lungs.
PB94-202116/REB 94-04 PC **A03**/MF **A01**

Modeling the Accumulation of Three Waterborne Chlorinated Ethanes in Fathead Minnows ('Pimephales promelas'): A Physiologically Based Approach.
PB94-210416/REB 94-04 PC **A03**/MF **A01**

PHARMACOLOGY

Colchicine Inhibits Elevations in Both Alveolar-Capillary Membrane Permeability and Lavage Surfactant After Exposure of the Rat to Phosgene.
PB94-196987/REB 94-04 PC **A03**/MF **A01**

PHASE I RULE

Consolidated Rule Summary for the Chemical Phases.
PB94-154069/REB 94-03 PC **A03**/MF **A01**

PHASE II RULE

Consolidated Rule Summary for the Chemical Phases.
PB94-154069/REB 94-03 PC **A03**/MF **A01**

PHASE IIB RULE

Consolidated Rule Summary for the Chemical Phases.
PB94-154069/REB 94-03 PC **A03**/MF **A01**

PHASE V RULE

Consolidated Rule Summary for the Chemical Phases.
PB94-154069/REB 94-03 PC **A03**/MF **A01**

PHENOL/CHLORO

Anaerobic Treatment of a Simulated High-Strength Industrial Wastewater Containing Chlorophenols.
PB94-157260/REB 94-03 PC **A03**/MF **A01**

PHENOL/PENTACHLORO

Toxicity and Estimated Water Quality Criteria Values in Mallard Ducklings Exposed to Pentachlorophenol.
PB94-157237/REB 94-03 PC **A01**/MF **A01**

Effects of Dieldrin in Food on Growth and Bioaccumulation in Mallard Ducklings.
PB94-157245/REB 94-03 PC **A01**/MF **A01**

Solvent Washing of Aged PCP-Contaminated Soils.
PB94-160439/REB 94-03 PC **A03**/MF **A01**

Treatment of PCP Containing Wastewater Using Anaerobic Fluidized Bed GAC Bioreactors.
PB94-160447/REB 94-03 PC **A03**/MF **A01**

PHENOLS

Comparative In vitro Percutaneous Absorption of p-Substituted Phenols through Rat Skin Using Static and Flow-Through Diffusion Systems.
PB94-101573/REB 94-01 PC **A02**/MF **A01**

Effect of GAC Characteristics on Adsorption of Organic Pollutants.
PB94-113768/REB 94-01 PC **A02**/MF **A01**

Ambient Aquatic Life Water Quality Criteria for 2,4-Dimethylphenol (CAS Registry Number 105-67-9).
PB94-118551/REB 94-01 PC **A03**/MF **A01**

Toxicokinetics and Structure-Activity Relationships of Nine Para-Substituted Phenols in Rat Embryos In vitro.
PB94-143740/REB 94-02 PC **A03**/MF **A01**

Oxidative Coupling of Phenols on Activated Carbon: Impact on Adsorption Equilibrium.
PB94-155470/REB 94-02 PC **A02**/MF **A01**

Oxidative Coupling of Phenolics on the GAC Surface.
PB94-158649/REB 94-03 PC **A03**/MF **A01**

Effect of GAC Characteristics on Adsorption of Organic Pollutants.
PB94-158664/REB 94-03 PC **A03**/MF **A01**

Molecular Oxygen and the Adsorption of Phenols: Effect of Functional Groups.
PB94-158672/REB 94-03 PC **A03**/MF **A01**

Impact of Oxygen Mediated Oxidative Coupling on Adsorption Kinetics.
PB94-159407/REB 94-03 PC **A02**/MF **A01**

Cleanliness of Common Air Sampling Sorbents for Application to Phenolic Compounds Measurement Using Supercritical Fluid Extraction.
PB94-210556/REB 94-04 PC **A01**/MF **A01**

PHENOLS/2-4-DICHLORO

Sequential Anaerobic Degradation of 2,4-Dichlorophenol in Freshwater Sediments.
PB94-190485/REB 94-04 PC **A02**/MF **A01**

PHENYLHYDRAZINE/2-4-DINITRO

Experimental Design for Performance Measurements of C1 to C4 Carbonyls Using DNPH-Coated Silica Gel and C-18 Cartridges.
PB94-210531/REB 94-04 PC **A02**/MF **A01**

PHOSGENE

Colchicine Inhibits Elevations in Both Alveolar-Capillary Membrane Permeability and Lavage Surfactant After Exposure of the Rat to Phosgene.
PB94-196987/REB 94-04 PC A03/MF A01

PHOSPHATIDYLINOSITOLS

Aluminum Decreases Muscarinic, Adrenergic and Metabotropic Receptor-Stimulated Phosphoinositide Hydrolysis in Hippocampal and Cortical Slices from Rat Brain.
PB94-163805/REB 94-03 PC A02/MF A01

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Reregistration Eligibility Decision (RED): Mineral Acids.
PB94-154242/REB 94-02 PC A13/MF A03

RED Facts: Mineral Acids.
PB94-154572/REB 94-02 PC A02/MF A01

PHOSPHOROUS ORGANIC COMPOUNDS

Relationship of Neuropathy Target Esterase Inhibition to Neuropathology and Ataxia in Hens Given Organophosphorus Esters.
PB94-137247/REB 94-02 PC A02/MF A01

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Group Report: Interactions among Acidification, Phosphorus, Contaminants, and Biota in Freshwater Ecosystems (Chapter 13).
PB94-210598/REB 94-04 PC A03/MF A01

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Role of Neurotoxic Esterase (NTE) in the Prevention and Potentiation of Organophosphorus-Induced Delayed Neurotoxicity (OPIDN).
PB94-137221/REB 94-02 PC A03/MF A01

PHOTOCHEMICAL REACTIONS

Oxidation of Nitrogen: Differences between Measurements and Predictions from the Regional Acid Deposition Model and whether Grid Size Can Explain Them.
PB94-122603/REB 94-01 PC A02/MF A01

Influence of Vertical Resolution on the Diurnal Ozone Concentrations in a Regional Photochemical Model: A Preliminary Study with Window RADM.
PB94-130093/REB 94-02 PC A03/MF A01

Photochemistry of Aqueous Iron(III)-Polycarboxylate Complexes: Roles in the Chemistry of Atmospheric and Surface Waters.
PB94-135050/REB 94-02 PC A02/MF A01

Improved Representation of the Reaction of N2O5 on Aerosols for Mesoscale Air Quality Models.
PB94-140803/REB 94-02 PC A03/MF A01

Air Quality Criteria for Ozone and Related Photochemical Oxidants. Volume 1 of 3.
PB94-173127/REB 94-03 PC A20/MF A04

Air Quality Criteria for Ozone and Related Photochemical Oxidants. Volume 2 of 3.
PB94-173135/REB 94-03 PC A19/MF A04

Air Quality Criteria for Ozone and Related Photochemical Oxidants. Volume 3 or 3.
PB94-173143/REB 94-03 PC A99/MF A06

QSARs for Photoinduced Toxicity: 1. Acute Lethality of Polycyclic Aromatic Hydrocarbons to 'Daphnia magna'.
PB94-176203/REB 94-03 PC A03/MF A01

Dependencies and Sensitivity of Tropospheric Oxidants to Precursor Concentrations over the Northeast United States: A Model Study.
PB94-192770/REB 94-04 PC A03/MF A01

Intercomparison of Two Regional Photochemical Models.
PB94-210549/REB 94-04 PC A03/MF A01

PHOTODEGRADATION

Uptake and Photodegradation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin Sorbed to Grass Foliage.
PB94-160488/REB 94-03 PC A02/MF A01

PHOTOGRAPHIC EQUIPMENT

Development Document for Effluent Limitations Guidelines and Standards for the Photographic Equipment and Supplies Segment of the Photographic Point Source Category.
PB94-140332/REB 94-02 PC A99/MF A06

PHOTOLYSIS

Depth Dependence of Direct and Indirect Photolysis on Soil Surfaces.
PB94-135068/REB 94-02 PC A02/MF A01

Photolysis of Smoke Dyes on Soils.
PB94-191111/REB 94-04 PC A02/MF A01

PHOTOSYNTHESIS

Effects of Ultraviolet-B Radiation on Photosynthesis of Different Aged Needles in Field-Grown Loblolly Pine.
PB94-144730/REB 94-02 PC A03/MF A01

Fluorescence Assessment of the Maximum Quantum Efficiency of Photosynthesis in the Western North Atlantic.
PB94-169950/REB 94-03 PC A03/MF A01

PHOTOTHERMAL CONVERSION

Photothermal Destruction of the Vapor of Volatile Organic Compounds.
PB94-182219/REB 94-03 PC A02/MF A01

Photothermal Detoxification of Air Toxics.
PB94-182680/REB 94-03 PC A03/MF A01

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PB94-963704/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Pinette's Salvage Yard, Washburn, ME., June 1993.
PB94-963705/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 1): Nyanza Chemcial Waste Dump, Operable Unit 3, Ashland, MA., March 1993.
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PB94-963709/REB 94-04 Standing Order

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PB94-963710/REB 94-04 Standing Order

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Superfund Record of Decision (EPA Region 2): Kenmark Textile Printing Corporation, Babylon, NY., March 1994.
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PB94-963803/REB 94-04 Standing Order

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PB94-963805/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Universal Oil Products (Chemical Division), Borough of East Rutherford, Bergen County, NY., September 1993.
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Superfund Record of Decision (EPA Region 2): Tronic Plating, Farmingdale, NY., September 1993.
PB94-963807/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Wilson Farm, Plumsted Township, Ocean County, NJ., August 1993.
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PB94-963809/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 2): Monroe Township Landfill, Middlesex County, NJ., March 1993.
PB94-963811/REB 94-04 Standing Order

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PB94-963812/REB 94-04 Standing Order

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PB94-963813/REB 94-04 Standing Order

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PB94-963819/REB 94-04 Standing Order

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PB94-963820/REB 94-04 Standing Order

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PB94-963821/REB 94-04 Standing Order

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PB94-963822/REB 94-04 Standing Order

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PB94-963824/REB 94-04 Standing Order

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PB94-963825/REB 94-04 Standing Order

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PB94-963826/REB 94-04 Standing Order

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PB94-963827/REB 94-04 Standing Order

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PB94-963828/REB 94-04 Standing Order

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PB94-963829/REB 94-04 Standing Order

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PB94-963830/REB 94-04 Standing Order

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PB94-963832/REB 94-04 Standing Order

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PB94-963833/REB 94-04 Standing Order

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Superfund Record of Decision (EPA Region 3): Revere Chemical Site, Nockamixon Township, Bucks County, PA., December 1993.
PB94-963903/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): U.S. Defense General Supply Center, Operable Unit 9, Chesterfield County, VA., September 1993.
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PB94-963905/REB 94-04 Standing Order

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PB94-963906/REB 94-04 Standing Order

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PB94-963908/REB 94-04 Standing Order

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PB94-963909/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Occidental Chemical Corporation, Montgomery County, PA., June 1993.
PB94-963910/REB 94-04 Standing Order

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PB94-963911/REB 94-04 Standing Order

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PB94-963912/REB 94-04 Standing Order

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PB94-963916/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Saegertown Industrial Area Site, Crawford County, PA., January 1993.
PB94-963917/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Austin Avenue Radiation Site, Delaware County, PA., June 1994.
PB94-963918/REB 94-04 Standing Order

Superfund Record of Decison (EPA Region 3): North Penn Area 1 Site, Souderton, PA., September 1994.
PB94-963920/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 3): Bell Landfill Superfund Site, Bradford County, PA., September 1994.
PB94-963921/REB 94-04 Standing Order

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PB94-963922/REB 94-04 Standing Order

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PB94-964001/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant Site, Paducah, KY., March 1994.
PB94-964003/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
PB94-964006/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
PB94-964008/REB 94-04 Standing Order

Superfund Record of Decision (Region 4): General Tire Landfill Site, Mayfield, KY., October 1993.
PB94-964009/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

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PB94-964016/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): T, H, Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
PB94-964017/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
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Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
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PB94-964023/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

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PB94-964025/REB 94-04 Standing Order

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PB94-964026/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL., October 1992.
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Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
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PB94-964030/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
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Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
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Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
PB94-964035/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
PB94-964036/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
PB94-964037/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
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PB94-964039/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL September 1993.
PB94-964046/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
PB94-964047/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
PB94-964048/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
PB94-964053/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
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Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant National Priorities List Site, Butte, MT., September 1993.
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Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
PB94-964016/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): T, H, Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
PB94-964017/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
PB94-964020/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
PB94-964021/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
PB94-964022/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4); USDOE Oak Ridge Reservation, Operable Unit 17, Oak Ridge, TN., October 1992.
PB94-964023/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Koppers (Morrisville Plant), Morrisville, NC., December 1992.
PB94-964026/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL, October 1992.
PB94-964028/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Redwing Carriers/Saraland, Mobile County, AL., December 1992.
PB94-964030/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/ Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/ Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Peak Oil/ Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
PB94-964035/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
PB94-964036/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
PB94-964037/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964038/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Jacksonville, NC., January 1993.
PB94-964039/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL September 1993.
PB94-964046/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
PB94-964047/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
PB94-964048/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
PB94-964053/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Ott/ Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5); Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
PB94-964128/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): N. W. Mauthe Site, Appleton, WI., March 1994.
PB94-964129/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
PB94-964131/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
PB94-964132/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
PB94-964133/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
PB94-964201/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
PB94-964202/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
PB94-964203/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
PB94-964204/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
PB94-964205/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
PB94-964206/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
PB94-964207/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
PB94-964208/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
PB94-964209/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
PB94-964301/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
PB94-964302/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
PB94-964303/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
PB94-964304/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
PB94-964305/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
PB94-964306/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
PB94-964307/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
PB94-964308/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
PB94-964309/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
PB94-964310/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
PB94-964311/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
PB94-964312/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant National Priorities List Site, Butte, MT., September 1993.
PB94-964401/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
PB94-964402/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
PB94-964405/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
PB94-964406/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant, Butte, MT., September 1993.
PB94-964407/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
PB94-964408/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
PB94-964409/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
PB94-964410/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
PB94-964411/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
PB94-964412/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 2, Commerce City, CO., June 1993.
PB94-964413/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Chemical Sales Company Site, Operable Unit 4, Commerce City, CO., December 1992.
PB94-964414/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Units 3 and 6, Commerce City, CO., June 1993.
PB94-964415/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Eagle Mine Site, Operable Unit 1, Eagle County, CO., March 1993.
PB94-964416/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 4, UT., June 1994.
PB94-964417/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Indian Bend Wash Site, Tempe, AZ., September 1993.
PB94-964501/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Baldwin Park San Gabriel Valley Area Site, Los Angeles County, CA., March 1994.
PB94-964502/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Aircraft Control and Warning Site, Mather Air Force Base, CA., December 1993.
PB94-964503/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Castle Air Force Base (Operable Unit 2), Merced County, CA., November 1993.
PB94-964506/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Southern California Edison, Visalia Pole Yard, Visalia, CA., June 1994.
PB94-964507/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Riverbank Army Ammunition Plant Site, Riverbank, CA., March 1994.
PB94-964508/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Norton Air Force Base, San Bernardino, CA., November 1993.
PB94-964509/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Hexcel, Livermore, CA., September 1993.
PB94-964510/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Shasta County, CA., September 1993.
PB94-964511/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Waste Disposal, Inc., Santa Fe Springs, CA., December 1993.
PB94-964512/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): George Air Force Base, Operable Unit 1, San Bernardino County, CA., March 1994.
PB94-964513/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 2, Phoenix, AZ., December 1992.
PB94-964514/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Tracy Defense Depot, Operable Unit 1, Tracy, CA., August 1993.
PB94-964515/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Newmark Groundwater Contamination Site, San Bernardino, CA., August 1993.
PB94-964516/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Liquid Gold Oil Corporation, Richmond, CA., June 1993.
PB94-964517/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Sharpe Army Depot, Operable Unit 1, Lathrop, CA., January 1993.
PB94-964518/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Fresno Sanitary Landfill Site, Fresno, CA., September 1993.
PB94-964519/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): McColl Site, Source Operable Unit, Fullerton, CA., June 1993.
PB94-964520/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Sacramento Army Depot, Burn Pits Operable Unit, Sacramento, CA., February 1993.
PB94-964521/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Lorentz Barrel and Drum Site, Operable Unit 1, San Jose, CA., August 1993.
PB94-964522/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 3, Los Angeles County, CA., June 1993.
PB94-964523/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1 through 4, Whittier Narrows Operable Unit, Los Angeles County, CA., March 1993.
PB94-964524/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1-4, Suburban Water Systems/Bartolo Well Field Operable Unit, (Amendment), CA., September 1993.
PB94-964525/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): McClellan Air Force Base, Operable Unit B1, CA., September 1993.
PB94-964526/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 2, Los Angeles County, CA., June 1993.
PB94-964527/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9). Applied Materials, Inc., Santa Clara, CA., August 1993.
PB94-964528/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Motorola 52nd Street, Operable Unit 2, Phoenix, AZ., July 1994.
PB94-964529/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 1, AZ., April 1994.
PB94-964530/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 9): Fort Ord, CA., February 1994.
PB94-964531/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island (Operable Unit 1, Areas 5 and 6), Oak Harbor, WA., December 1993.
PB94-964603/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Fairchild Air Force Base, Craig Road Landfill Operable Unit, Spokane, WA., February 1993.
PB94-964604/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Naval Submarine Base, Operable Unit 3, Bangor, WA., March 1994.
PB94-964605/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island, Ault Field, Operable Unit 2, Oak Harbor, WA., June 1994.
PB94-964606/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Teledyne Wah Chang Albany Site, Millersburg, OR., June 1994.
PB94-964607/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Bangor Naval Submarine Base, Operable Unit 5, Bangor, WA., September 1993.
PB94-964608/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 1, Hermiston, OR., December 1992.
PB94-964609/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 12, Idaho Falls, ID., December 1992.
PB94-964610/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 4, Idaho Falls, ID., December 1992.
PB94-964611/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 9, Idaho Falls, ID., December 1992.
PB94-964612/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 5, Hermiston, OR., August 1993.
PB94-964613/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 8, Hermiston, OR., August 1993.
PB94-964614/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 18, Idaho Falls, ID., September 1993.
PB94-964615/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Mountain Home Air Force Base, Landfill No. 2, Operable Unit 2, Mountain Home, ID., May 1993.
PB94-964616/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Queen City Farms, Maple Valley, WA., December 1992.
PB94-964617/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Fort Lewis Military Reservation, (Landfill 4 and the Solvent Refined Coal Pilot Plant), Pierce County, WA., September 1993.
PB94-964618/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Allied Plating Site, Portland, OR., June 1993.
PB94-964619/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Bonneville Power Administration Ross Complex Site (USDOE), Operable Unit 1, Vancouver, WA., May 1993.
PB94-964620/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Fairchild Air Force Base, 4 Areas, Operable Unit 2, WA., July 1993.
PB94-964621/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Bonneville Power Administration Ross Complex Site (USDOE), Operable Unit 2, Vancouver, WA., September 1993.
PB94-964622/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): American Crossarm and Conduit, Chehalis, WA., June 1993.
PB94-964623/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Hanford 1100 Area Site (USDOE), Benton County, WA., September 1993.
PB94-964624/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Alaskan Battery Enterprises, Fairbanks, AK., March 1993.
PB94-964625/REB 94-04 Standing Order

Superfund Record of Decision (EPA Region 10): Commencement Bay Nearshore/Tideflats Site, Operable Unit 4, Ruston/North Tacoma Study Area, WA., June 1993.
PB94-964626/REB 94-04 Standing Order

SUPERFUND ACCELERATED CLEANUP MODEL

Update on SACM Implementation.
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Superfund Accelerated Cleanup Model.
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SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION

Accutech Pneumatic Fracturing Extraction and Hot Gas Injection, Phase 1. Applications Analysis Report.
PB94-117439/REB 94-01 PC **A04**/MF **A01**

SUPERFUND PROGRAM

Health Effects Assessment Summary Tables.
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TOXIC HAZARDS
Trophic Transfer of Contaminants from Organisms Living by Chromated-Copper-Arsenate (CCA)-Treated Wood to Their Predators.
PB94-170073/REB 94-03 PC A03/MF A01

TOXIC SUBSTANCES
Physiologically Based Pharmacokinetic Model for 2,3,7,8-Tetrabromodibenzo-p-Dioxin (TBDD) in the Rat: Tissue Distribution and CYP1A Induction.
PB94-101565/REB 94-01 PC A03/MF A01

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PB94-111259/REB 94-01 PC A03/MF A01

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PB94-114907/REB 94-01 PC A04/MF A01

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PB94-123833/REB 94-01 PC A03/MF A01

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PB94-131729/REB 94-02 PC A03/MF A01

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PB94-137338/REB 94-02 PC **A03/MF A01**

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PB94-140951/REB 94-02 PC **A09/MF A02**

Effects of Selected Neuroactive Chemicals on Calcium Transporting Systems in Rat Cerebellum and on Survival of Cerebellar Granule Cells.
PB94-141595/REB 94-02 PC **A03/MF A01**

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PB94-146230/REB 94-02 PC **A99/MF E08**

Controlling Chemical Hazards. Fundamentals of the Management of the Toxic Chemicals.
PB94-146479/REB 94-02 PC **A03/MF A01**

Reregistration Eligibility Decision (RED): Flower and Vegetable Oils.
PB94-152048/REB 94-02 PC **A10/MF A03**

Reregistration Eligibility Decision (RED): Bromine.
PB94-152055/REB 94-02 PC **A07/MF A02**

RED Facts: Inorganic Halides.
PB94-152121/REB 94-02 PC **A02/MF A01**

Summary of the 1993 EPA/A and WMA International Symposium (8th). Measurement of Toxic and Related Air Pollutants. Held in Durham, North Carolina on May 3-7, 1993.
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Heavy Metals and Toxic Organic Pollutants in MSW-Composts: Research Results on Phytoavailability, Bioavailability, Fate, Etc.
PB94-155348/REB 94-03 PC **A04/MF A01**

Toxic Emissions from Aircraft Firefighting Training: A Search of Available Literature.
PB94-156783/REB 94-03 PC **A04/MF A01**

RED Facts: Boric Acid.
PB94-161668/REB 94-03 PC **A02/MF A01**

Identification of Ammonia, Chlorine, and Diazinon as Toxicants in a Municipal Effluent.
PB94-163581/REB 94-03 PC **A03/MF A01**

Molecular Analysis of Mutations Induced at the 'hisD3052' Allele of Salmonella by Single Chemicals and Complex Mixtures.
PB94-163961/REB 94-03 PC **A02/MF A01**

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PB94-181680/REB 94-03 PC **A12/MF A03**

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PB94-196573/REB 94-04 PC **A13/MF A03**

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PB94-197035/REB 94-04 PC **A06/MF A01**

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PB94-197050/REB 94-04 PC **A04/MF A01**

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PB94-501897/REB 94-03 CP **T08**

Toxic Release Inventory (TRI), 1988.
PB94-501905/REB 94-03 CP **T07**

Toxic Release Inventory (TRI), 1989.
PB94-501913/REB 94-03 CP **T07**

Toxic Release Inventory (TRI), 1990.
PB94-501921/REB 94-03 CP **T07**

Toxic Release Inventory (TRI), 1991.
PB94-501939/REB 94-03 CP **T07**

Toxic Release Inventory (TRI), 1992.
PB94-501947/REB 94-03 CP **T07**

Toxic Release Inventory (TRI), 1987-1992 (on CD-ROM).
PB94-504230/REB 94-04 CD-ROM $45.00

TOXIC SUBSTANCES CONTROL ACT

Toxic Chemical Substance Act (TSCA) Chemical Substances Inventory Documentation.
PB94-141751/REB 94-03 PC **A03/MF A01**

Toxic Substances Control Act Test Submissions Database (TSCATS) - Comprehensive Update.
PB94-500147/REB 94-02 CP **T03**

Toxic Substances Control Act (TSCA) Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File, January 1, 1994.
PB94-501194/REB 94-03 CP **T05**

TOXIC TOLERANCES

Dioxin-like Toxic Potency in Forster's Tern Eggs from Green Bay, Lake Michigan, North America.
PB94-163565/REB 94-03 PC **A02/MF A01**

Measures of Reproductive Success and Polychlorinated Biphenyl Residues in Eggs and Chicks of Forster's Terns on Green Bay, Lake Michigan, Wisconsin, 1988.
PB94-163607/REB 94-03 PC **A03/MF A01**

pH-Dependent Toxicity of Cd, Cu, Ni, Pb and Zn to 'Ceriodaphnia dubia', 'Pimephales promelas', 'Hyalella azteca' and 'Lumbriculus variegatus'.
PB94-163722/REB 94-03 PC **A02/MF A01**

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Workshop Report on Developmental Neurotoxic Effects Associated with Exposure to PCBs. Held in Research Triangle Park, North Carolina on September 14-15, 1992.
PB94-105335/REB 94-01 PC **A11/MF A03**

Reregistration Eligibility Document (RED) Chlorinated Isocyanurates.
PB94-108024/REB 94-01 PC **A13/MF A03**

Pesticide Fact Sheet: Sinesto B.
PB94-108438/REB 94-01 PC **A02/MF A01**

Pesticide Fact Sheet: 'Puccinia canaliculata' (ATCC 40199).
PB94-108446/REB 94-01 PC **A02/MF A01**

R.E.D. Facts. Chlorinated Isocyanurates.
PB94-108453/REB 94-01 PC **A02/MF A01**

Pesticide Fact Sheet: 'Cinnamonum cassia'.
PB94-109352/REB 94-01 PC **A01/MF A01**

Pesticide Fact Sheets: 'Bacillus thuringiensis Subspecies aizawai'.
PB94-109360/REB 94-01 PC **A02/MF A01**

Pesticide Fact Sheets: 'Bacillus thuringiensis subspecies aizawai' Strain GC-91.
PB94-109378/REB 94-01 PC **A02/MF A01**

Reregistration Eligibility Document (RED): Biobor.
PB94-109733/REB 94-01 PC **A05/MF A01**

Deposition of Semi-Volatile Air Toxic Pollutants to the Great Lakes: A Regional Modeling Approach.
PB94-113016/REB 94-01 PC **A03/MF A01**

Evaluation of Acute and Chronic Toxicity Tests with Larval Striped Bass.
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Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. Fourth Edition.
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PB94-117462/REB 94-01 PC **A06/MF A02**

NTP Technical Report on Toxicity Studies of Cupric Sulfate (CAS No. 7758-99-8) Administered in Drinking Water and Feed to F344/N Rats and B6C3F1 Mice.
PB94-120870/REB 94-01 PC **A06/MF A02**

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PB94-121035/REB 94-01 PC **A08/MF A02**

NTP Technical Report on Toxicity Studies of a Chemical Mixture of 25 Groundwater Contaminants Administered in Drinking Water to F344/N Rats and B6C3F1 Mice.
PB94-121498/REB 94-01 PC **A09/MF A02**

Progress at the Chesapeake Bay Program '92 and '93. Restoring the Chesapeake Bay, Annual Progress Report.
PB94-122819/REB 94-01 PC **A03/MF A01**

Issues in Risk Assessment.
PB94-123411/REB 94-01 PC **A17/MF A03**

Methods for Aquatic Toxicity Identification Evaluations: Phase 3 Toxicity Confirmation. Procedures for Samples Exhibiting Acute and Chronic Toxicity.
PB94-123833/REB 94-01 PC **A03/MF A01**

Health Effects of Ingested Fluoride.
PB94-124724/REB 94-02 PC **A09/MF A02**

Red Facts: Reregistration Eligibility Document, Butylate.
PB94-125945/REB 94-02 PC **A11/MF A03**

Reregistration Eligibility Decision Document (RED): Daminozide.
PB94-126083/REB 94-02 PC **A05/MF A01**

RED Facts: Butylate.
PB94-126091/REB 94-02 PC **A02/MF A01**

RED Facts: Daminozide.
PB94-126117/REB 94-02 PC **A02/MF A01**

Interim Protocol for Testing the Effects of Microbial Pathogens on Spiders (Arachnida: Araneae).
PB94-130366/REB 94-02 PC **A03/MF A01**

Distribution of Injury and Microdosimetry of Ozone in the Ventilatory Unit of the Rat.
PB94-137049/REB 94-02 PC **A02/MF A01**

32P-Postlabeling Analysis of DNA Adducts in Human Sperm Cells from Smokers and Nonsmokers.
PB94-137064/REB 94-02 PC **A02/MF A01**

Enhanced Mortality and Liver Damage in Virus-Infected Mice Exposed to p-Xylene.
PB94-137072/REB 94-02 PC **A03/MF A01**

Structure-Activity Approaches in the Screening of Environmental Agents for Developmental Toxicity.
PB94-137098/REB 94-02 PC **A01/MF A01**

Behavioral and Neurochemical Effects of Acute Chlorpyrifos in Rats: Tolerance to Prolonged Inhibition of Cholinesterase.
PB94-137130/REB 94-02 PC **A03/MF A01**

Influence of the Formamidine Pesticide Chlordimeform on Ovulation in the Female Hamster; Dissociable Shifts in the Luteinizing Hormone Surge and Oocyte Release.
PB94-137148/REB 94-02 PC **A03/MF A01**

Differential Cytotoxic Sensitivity in Mouse and Human Cell Lines Exposed to Organophosphate Insecticides.
PB94-137155/REB 94-02 PC **A02/MF A01**

Fetal Development in the Rat Following Disruption of Maternal Renal Function during Pregnancy.
PB94-137163/REB 94-02 PC **A03/MF A01**

Role of Neurotoxic Esterase (NTE) in the Prevention and Potentiation of Organophosphorus-Induced Delayed Neurotoxicity (OPIDN).
PB94-137221/REB 94-02 PC **A03/MF A01**

Administration of 3,3'-Iminodipropionitrile to the Rat Results in Region-Dependent Damage to the Central Nervous System at Levels Above the Brain Stem.
PB94-137296/REB 94-02 PC **A02/MF A01**

RED Facts: Thymol.
PB94-139003/REB 94-02 PC **A08/MF A02**

Non-Invasive Neurotoxicity Assay Using Larval Medaka.
PB94-140621/REB 94-02 PC **A03/MF A01**

Uptake of Metals from Chromated-Copper-Arsenate (CCA)-Treated Lumber by Epibiota.
PB94-140662/REB 94-02 PC **A01/MF A01**

Simple Test for Toxicity of Number 2 Fuel Oil and Oil Dispersants to Embryos of Grass Shrimp, 'Palaemonetes pugio'.
PB94-140704/REB 94-02 PC **A02/MF A01**

Sensitivity to 3,3'-Iminodipropionitrile Differs for High- and Midfrequency Hearing Loss in the Developing Rat.
PB94-141421/REB 94-02 PC **A02/MF A01**

Quantitative Analysis of the Metabolism of 9,10-Dihydrobenzo(a)pyrene by Induced Rat Liver Microsomes.
PB94-141447/REB 94-02 PC **A02/MF A01**

Epithelial Injury and Interstitial Fibrosis in the Proximal Alveolar Regions of Rats Chronically Exposed to a Simulated Pattern of Urban Ambient Ozone.
PB94-141462/REB 94-02 PC **A03/MF A01**

Mid-Frequency Hearing Loss in Rats Following Inhalation Exposure to Trichloroethylene: Evidence from Reflex Modification Audiometry.
PB94-141504/REB 94-02 PC **A03/MF A01**

Correlation of Carcinogenic Potency with Mouse-Skin (32)P-Postlabeling and Muta-(R)Mouse lac Z(-)Mutation Data for DMBA and Its K-Region Sulphur Isostere: Comparison with Activities Observed in Standard Genotoxicity Assays.
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PB94-144235/REB 94-02 PC **A05/MF A01**

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PB94-144722/REB 94-02 PC **A02/MF A01**

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PB94-155389/REB 94-03 PC **A03/MF A01**

Effect of 'Beauveria bassiana' and Its Toxins on 'Mysidopsis bahia' (Mysidacea).
PB94-155520/REB 94-02 PC **A02/MF A01**

Transformation of Dyes and Related Compounds in Anoxic Sediment: Kinetics and Products.
PB94-155553/REB 94-02 PC **A03/MF A01**

Guidelines for Reproductive Toxicity Risk Assessment. (Review Draft).
PB94-155827/REB 94-03 PC **A03/MF A01**

Role of a Newly Discovered Toxic Dinoflagellate in Finfish and Shellfish Kills in the Neuse and Pamlico Estuaries.
PB94-156593/REB 94-03 PC **A04/MF A01**

Toxicity and Estimated Water Quality Criteria Values in Mallard Ducklings Exposed to Pentachlorophenol.
PB94-157237/REB 94-03 PC **A01/MF A01**

Effects of Dieldrin in Food on Growth and Bioaccumulation in Mallard Ducklings.
PB94-157245/REB 94-03 PC **A01/MF A01**

Relationships between Descriptors for Hydrophobicity and Soft Electrophilicity in Predicting Toxicity.
PB94-158755/REB 94-03 PC **A03**/MF **A01**

Comparative Toxicity of Chemicals to Earthworms.
PB94-160462/REB 94-03 PC **A02**/MF **A01**

Distribution of Relative Error of Toxicity of Herbicides and Metals to 'Arabidopsis'.
PB94-160470/REB 94-03 PC **A02**/MF **A01**

Agricultural Insecticide Runoff Effects on Estuarine Organisms: Correlating Laboratory and Field Toxicity Tests, Ecophysiology Bioassays, and Ecotoxicological Biomonitoring.
PB94-160678/REB 94-03 PC **A14**/MF **A03**

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PB94-163011/REB 94-03 PC **A07**/MF **A02**

Toxicity of Sediments and Sediment Pore Waters from the Grand Calumet River-Indiana Harbor, Indiana Area of Concern.
PB94-163557/REB 94-03 PC **A03**/MF **A01**

QSAR Approach for Estimating the Aquatic Toxicity of Soft Electrophiles (QSAR for Soft Electrophiles).
PB94-163573/REB 94-03 PC **A02**/MF **A01**

Behavior and Identification of Toxic Metals in Complex Mixtures: Examples from Effluent and Sediment Pore Water Toxicity Identification Evaluations.
PB94-163623/REB 94-03 PC **A03**/MF **A01**

Alternatives to Methanol-Water Elution of Solid-Phase Extraction Columns for the Fractionation of High Log K(sub ow) Organic Compounds in Aqueous Environmental Samples.
PB94-163631/REB 94-03 PC **A02**/MF **A01**

Comparison of Effluent Toxicity Results Using 'Ceriodaphnia dubia' Cultured on Several Diets.
PB94-163649/REB 94-03 PC **A03**/MF **A01**

Development and Evaluation of Test Methods for Benthic Invertebrates and Sediments: Effects of Flow Rate and Feeding on Water Quality and Exposure Conditions.
PB94-163656/REB 94-03 PC **A02**/MF **A01**

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PB94-163672/REB 94-03 PC **A03**/MF **A01**

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PB94-163730/REB 94-03 PC **A02**/MF **A01**

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PB94-163755/REB 94-03 PC **A02**/MF **A01**

Transcriptional Changes in Hepatic Tumors of Rats Induced by Di(2-ethylhexyl) phthalate and Di-n-Octyl phthalate.
PB94-163771/REB 94-03 PC **A03**/MF **A01**

Aluminum Alters Calcium Transport in Plasma Membrane and Endoplasmic Reticulum from Rat Brain.
PB94-163797/REB 94-03 PC **A02**/MF **A01**

Aluminum Decreases Muscarinic, Adrenergic and Metabotropic Receptor-Stimulated Phosphoinositide Hydrolysis in Hippocampal and Cortical Slices from Rat Brain.
PB94-163805/REB 94-03 PC **A02**/MF **A01**

Hazard Identification: Efficiency of Short-Term Tests in Identifying Germ Cell Mutagens and Putative Nongenotoxic Carcinogens.
PB94-163870/REB 94-03 PC **A03**/MF **A01**

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PB94-163888/REB 94-03 PC **A03**/MF **A01**

Acute and Long-Term Effects of a Single Dose of the Fungicide Carbendazim (Methyl 2-Benzimidazole Carbamate) on the Male Reproductive System in the Rat.
PB94-163896/REB 94-03 PC **A03**/MF **A01**

Ozone Effect on Respiratory Syncytial Virus Infectivity and Cytokine Production by Human Alveolar Macrophages.
PB94-163946/REB 94-03 PC **A03**/MF **A01**

Reregistration Eligibility Decision (RED): Methiocarb.
PB94-166394/REB 94-03 PC **A10**/MF **A03**

Reregistration Eligibility Decision (RED): Tri(hydroxymethyl) nitromethane.
PB94-166402/REB 94-03 PC **A09**/MF **A02**

RED Facts: Tris(hydroxymethyl)-nitromethane.
PB94-168135/REB 94-03 PC **A02**/MF **A01**

Utilization of Topsmelt, 'Atherinops affinis', in Environmental Toxicology Studies along the Pacific Coast of the United States.
PB94-170065/REB 94-03 PC **A04**/MF **A01**

Comparison of the Relative Sensitivity of Three Benthic Invertebrates to Copper-Contaminated Sediments from the Keweenaw Waterway.
PB94-174703/REB 94-03 PC **A02**/MF **A01**

Prediction of Bioaccumulation of Metals from Contaminated Sediments by the Oligochaete, 'Lumbriculus variegatus'.
PB94-176054/REB 94-03 PC **A01**/MF **A01**

Evaluation of Potential Confounding Factors in Sediment Toxicity Tests with Three Freshwater Benthic Invertebrates.
PB94-176138/REB 94-03 PC **A03**/MF **A01**

Evaluation of Equilibrium Partitioning Theory for Predicting Acute Toxicity of Field-Collected Sediments Contaminated with DDT, DDE and DDD to the Amphipod 'Hyalella Azteca'.
PB94-176146/REB 94-03 PC **A03**/MF **A01**

Organic Carbon Partitioning as a Basis for Predicting the Toxicity of Chlorpyrifos in Sediments.
PB94-176153/REB 94-03 PC **A02**/MF **A01**

Assessing Potential Bioavailability of Metals in Sediments: A Proposed Approach.
PB94-176161/REB 94-03 PC **A02**/MF **A01**

Influence of Age on the Relative Sensitivity of 'Hyalella azteca' to Diazinon, Alkylphenol Ethoxylates, Copper, Cadmium, and Zinc.
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PB94-176195/REB 94-03 PC **A03**/MF **A01**

QSARs for Photoinduced Toxicity: 1. Acute Lethality of Polycyclic Aromatic Hydrocarbons to 'Daphnia magna'.
PB94-176203/REB 94-03 PC **A03**/MF **A01**

Screening of Candidate Species for Development of Standard Operating Procedures for Aquatic Toxicity Testing with Resident Chesapeake Bay Biota.
PB94-177482/REB 94-03 PC **A05**/MF **A02**

Use of the Aquatic Oligochaete 'Lumbriculus variegatus' for Assessing the Toxicity and Bioaccumulation of Sediment-Associated Contaminants.
PB94-177730/REB 94-03 PC **A03**/MF **A01**

Pilot Monitoring Project for 14 Pesticides in Maryland Surface Waters.
PB94-180734/REB 94-03 PC **A06**/MF **A02**

Assessment of Salinity Effects on the Toxicity of Atrazine to Chesapeake Bay Species: Data Needs for Development of Estuarine Aquatic Life Criteria.
PB94-181526/REB 94-03 PC **A03**/MF **A01**

Updated Review of Estuarine Aquatic Toxicity Data for the Development of Aquatic Life Criteria for Atrazine in Chesapeake Bay. Phase 2 Report.
PB94-181534/REB 94-03 PC **A06**/MF **A02**

Comparative Toxicity of Azinphos-Methyl to House Mice, Laboratory Mice, Deer Mice, and Gray-Tailed Voles.
PB94-182367/REB 94-03 PC **A02**/MF **A01**

Effects of 7,12-Dimethylbenz(a)anthracene on Immune Function and Mixed-Function Oxygenase Activity in the European Starling.
PB94-190568/REB 94-04 PC **A03**/MF **A01**

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PB94-191079/REB 94-04 PC **A02**/MF **A01**

Effects of Contaminants from Chromated Copper Arsenate-Treated Lumber on Benthos.
PB94-191087/REB 94-04 PC **A02**/MF **A01**

Developmental Toxicity and Structure-Activity Relationships of Aliphatic Acids, Including Dose-Response Assessment of Valproic Acid in Mice and Rats.
PB94-197084/REB 94-04 PC **A03**/MF **A01**

Comparative Molecular Field Analysis of Polyhalogenated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls.
PB94-202108/REB 94-04 PC **A02**/MF **A01**

Dose-Dependent Disposition of Sodium Arsenate in Mice Following Acute Oral Exposure.
PB94-202140/REB 94-04 PC **A03**/MF **A01**

Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Volume 1 of 3.
PB94-205465/REB 94-04 PC **A18**/MF **A04**

Health Assessment Document for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Volume 2 of 3.
PB94-205473/REB 94-04 PC **A99**/MF **A06**

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Electronic Factor in QSAR: MO-Parameters, Competing Interactions, Reactivity and Toxicity.
PB94-209681/REB 94-04 PC **A03**/MF **A01**

Toxicity of Guthion (Trade Name) and Guthion (Trade Name) 2S to 'Xenopus laevis' Embryos.
PB94-209731/REB 94-04 PC **A02**/MF **A01**

Biomonitoring for Control of Toxicity in Effluent Discharges to the Marine Environment.
PB94-210226/REB 94-04 PC **A04**/MF **A01**

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PB94-210507/REB 94-04 PC **A03**/MF **A01**

Chesapeake Bay Revised Basinwide Toxics Reduction Strategy Commitments Evaluation.
PB94-213709/REB 94-04 PC **A05**/MF **A01**

Toxic Modeling System Short-Term (TOXST) User's Guide. Volume 1, 1994.
PB94-214145/REB 94-04 PC **A05**/MF **A01**

Toxic Modeling System Short-Term (TOXST) User's Guide: Volume 2. Case Study and Source Code.
PB94-214152/REB 94-04 PC **A10**/MF **A03**

Whole Effluent Toxicity (WET) Control Policy: Policy for the Development of Effluent Limitations in National Pollutant Discharge Elimination System Permits to Control Whole Effluent Toxicity for the Protection of Aquatic Life.
PB94-214673/REB 94-04 PC **A05**/MF **A01**

Aquatic Toxicity Information on VAX VMS Backup (AQUIRE for VMS) (1600 BPI).
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RED Facts: Boric Acid.
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RED Facts: Bromine.
PB94-152923/REB 94-02 PC **A02**/MF **A01**

RED Facts: Butylate.
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PB94-126117/REB 94-02 PC **A02**/MF **A01**

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RED Facts: Flower and Vegetable Oils.
PB94-152931/REB 94-02 PC **A01**/MF **A01**

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RED Facts: Glyphosate.
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RED Facts: Lauryl Sulfate Salts.
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RED Facts: Lithium Hypochlorite.
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RED Facts: Methiocarb.
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RED Facts: Mineral Acids.
PB94-154572/REB 94-02 PC **A02**/MF **A01**

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RED Facts: Peroxy Compounds.
PB94-151743/REB 94-02 PC **A02**/MF **A01**

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PB94-140027/REB 94-02 PC **A01**/MF **A01**

EPA/738/R-93/016
RED Facts: Sulfuryl Fluoride.
PB94-140134/REB 94-02 PC **A06**/MF **A02**

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RED Facts: Thymol.
PB94-139003/REB 94-02 PC **A08**/MF **A02**

EPA/738/F-93/010
RED Facts: Thymol.
PB94-139102/REB 94-02 PC **A02**/MF **A01**

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RED Facts: Tris(hydroxymethyl)-nitromethane.
PB94-168135/REB 94-03 PC **A02**/MF **A01**

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RED Facts: Wood Oils and Gums (Cedarwood Oil).
PB94-140001/REB 94-02 PC **A01**/MF **A01**

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RED Facts: 2-((Hydroxymethyl)-amino)ethanol.
PB94-168077/REB 94-03 PC **A01**/MF **A01**

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Reregistration Eligibility Decision Document (RED): Daminozide.
PB94-126083/REB 94-02 PC **A05**/MF **A01**

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PB94-963714/REB 94-04 Standing Order

EPA/ROD/R01-93/079
Superfund Record of Decision (EPA Region 1): Linemaster Switch Corporation Site, Woodstock, CT., July 1993.
PB94-963710/REB 94-04 Standing Order

EPA/ROD/R01-94/086
Superfund Record of Decision (EPA Region 1): Loring Air Force Base (Operable Unit 6) Site, ME., April 1994.
PB94-963701/REB 94-04 Standing Order

EPA/ROD/R01-93/080
Superfund Record of Decision (EPA Region 1): Naval Construction Battalion Center, Sites 12 and 14, Davisville, RI., September 1993.
PB94-963712/REB 94-04 Standing Order

EPA/ROD/R01-93/081
Superfund Record of Decision (EPA Region 1): Newport Naval Education/Training Center, Newport, RI., September 1993.
PB94-963709/REB 94-04 Standing Order

EPA/ROD/R01-93/082
Superfund Record of Decision (EPA Region 1): Nyanza Chemcial Waste Dump, Operable Unit 3, Ashland, MA., March 1993.
PB94-963706/REB 94-04 Standing Order

EPA/ROD/R01-93/084
Superfund Record of Decision (EPA Region 1): Otis Air National Guard/Camp Edwards, MA., January 1993.
PB94-963708/REB 94-04 Standing Order

EPA/ROD/R01-93/083
Superfund Record of Decision (EPA Region 1): Pease Air Force Base, Operable Unit 1, NH., September 1993.
PB94-963703/REB 94-04 Standing Order

EPA/ROD/R01-93/085
Superfund Record of Decision (EPA Region 1): Pease Air Force Base, Operable Unit 2, NH., September 1993.
PB94-963704/REB 94-04 Standing Order

EPA/ROD/R01-93/075
Superfund Record of Decision (EPA Region 1): Peterson/Puritan Site, Operable Unit 1, Cumberland/Lincoln, RI., September 1993.
PB94-963707/REB 94-04 Standing Order

EPA/ROD/R01-93/076
Superfund Record of Decision (EPA Region 1): Picillo Farm, Coventry, RI., September 1993.
PB94-963702/REB 94-04 Standing Order

EPA/ROD/R01-93/077
Superfund Record of Decision (EPA Region 1): Pinette's Salvage Yard, Washburn, ME., June 1993.
PB94-963705/REB 94-04 Standing Order

EPA/ROD/R01-93/078
Superfund Record of Decision (EPA Region 1): Salem Acres Site, Salem, MA., March 1993.
PB94-963711/REB 94-04 Standing Order

EPA/ROD/R01-94/087
Superfund Record of Decision (EPA Region 1): Somersworth Sanitary Landfill Site, Somersworth, NH., June 1994.
PB94-963713/REB 94-04 Standing Order

EPA/ROD/R02-93/203
Superfund Record of Decision (EPA Region 2): American Cyanamid Site, Operable Unit 1, Bridgewater Township, Somerset County, NJ., September 1993.
PB94-963832/REB 94-04 Standing Order

EPA/ROD/R02-93/195
Superfund Record of Decision (EPA Region 2): Batavia Landfill Site, Town of Batavia, Genesee County, NY., March 1993.
PB94-963831/REB 94-04 Standing Order

EPA/ROD/R02-93/196
Superfund Record of Decision (EPA Region 2): FMC Dublin Road Site, Orleans County, NY., March 1993.
PB94-963833/REB 94-04 Standing Order

EPA/ROD/R02-94/224
Superfund Record of Decision (EPA Region 2): Fried Industries Site, East Brunswick, NJ., June 1994.
PB94-963801/REB 94-04 Standing Order

EPA/ROD/R02-93/218
Superfund Record of Decision (EPA Region 2): Janssen, Inc., Site, Gurabo, PR., September 1993.
PB94-963823/REB 94-04 Standing Order

EPA/ROD/R02-93/197
Superfund Record of Decision (EPA Region 2): Johnstown City Landfill, NY., March 1993.
PB94-963822/REB 94-04 Standing Order

EPA/ROD/R02-94/227
Superfund Record of Decision (EPA Region 2): Juncos Landfill Site (Operable Unit 2), Juncos, PR., October 1993.
PB94-963804/REB 94-04 Standing Order

EPA/ROD/R02-94/225
Superfund Record of Decision (EPA Region 2): Kenmark Textile Printing Corporation, Babylon, NY., March 1994.
PB94-963802/REB 94-04 Standing Order

EPA/ROD/R02-93/221
Superfund Record of Decision (EPA Region 2): Lodi Municipal Wells, NJ., September 1993.
PB94-963824/REB 94-04 Standing Order

EPA/ROD/R02-93/199
Superfund Record of Decision (EPA Region 2): Monroe Township Landfill, Middlesex County, NJ., March 1993.
PB94-963811/REB 94-04 Standing Order

EPA/ROD/R02-93/208
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 8, Lakehurst, NJ., June 1993.
PB94-963816/REB 94-04 Standing Order

EPA/ROD/R02-93/209
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 9, Lakehurst, NJ., June 1993.
PB94-963818/REB 94-04 Standing Order

EPA/ROD/R02-93/210
Superfund Record of Decision (EPA Region 2); Naval Air Engineering Center, Operable Unit 10, Lakehurst, NJ., September 1993.
PB94-963815/REB 94-04 Standing Order

EPA/ROD/R02-93/211
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 11, Lakehurst, NJ., September 1993.
PB94-963817/REB 94-04 Standing Order

EPA/ROD/R02-93/212
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 12, Lakehurst, NJ., September 1993.
PB94-963819/REB 94-04 Standing Order

EPA/ROD/R02-93/213
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, (Operable Unit 13), Lakehurst, NJ., September 1993.
PB94-963814/REB 94-04 Standing Order

EPA/ROD/R02-93/215
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 15, Lakehurst, NJ., September 1993.
PB94-963828/REB 94-04 Standing Order

EPA/ROD/R02-93/216
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 22, Lakehurst, NJ., September 1993.
PB94-963829/REB 94-04 Standing Order

EPA/ROD/R02-93/217
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center, Operable Unit 23, Lakehurst, NJ., September 1993.
PB94-963830/REB 94-04 Standing Order

EPA/ROD/R02-93/214
Superfund Record of Decision (EPA Region 2): Naval Engineering Center, Operable Unit 14, Lakehurst, NJ., September 1993.
PB94-963827/REB 94-04 Standing Order

EPA/ROD/R02-93/200
Superfund Record of Decision (EPA Region 2): Niagara County Refuse, NY., September 1993.
PB94-963821/REB 94-04 Standing Order

EPA/ROD/R02-94/228
Superfund Record of Decision (EPA Region 2): NL Industries, Inc., Pedricktown, NJ., July 1994.
PB94-963805/REB 94-04 Standing Order

EPA/ROD/R02-93/204
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, Plattsburgh, NY., March 1993.
PB94-963812/REB 94-04 Standing Order

EPA/ROD/R02-94/226
Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Oswego, NY., December 1993.
PB94-963803/REB 94-04 Standing Order

EPA/ROD/R02-93/205
Superfund Record of Decision (EPA Region 2): Preferred Plating Corporation, Farmingdale, NY., September 1993.
PB94-963813/REB 94-04 Standing Order

EPA/ROD/R02-93/201
Superfund Record of Decision (EPA Region 2): Reynolds Metals Company Site, Massena, NY., September 1993.
PB94-963826/REB 94-04 Standing Order

EPA/ROD/R02-93/198
Superfund Record of Decision (EPA Region 2): Robintech/National Pipe, Operable Unit 2, Town of Vestal, Broome County, NY., March 1993.
PB94-963825/REB 94-04 Standing Order

EPA/ROD/R02-94/255
Superfund Record of Decision (EPA Region 2): Rockaway Township Wellfield, Rockaway, NJ., October 1993.
PB94-963834/REB 94-04 Standing Order

EPA/ROD/R02-93/219
Superfund Record of Decision (EPA Region 2): SMS Instruments, Suffolk County, Deer Park, NY., September 1993.
PB94-963820/REB 94-04 Standing Order

EPA/ROD/R02-93/202
Superfund Record of Decision (EPA Region 2): Tronic Plating, Farmingdale, NY., September 1993.
PB94-963807/REB 94-04 Standing Order

EPA/ROD/R02-93/206
Superfund Record of Decision (EPA Region 2): Universal Oil Products (Chemical Division), Borough of East Rutherford, Bergen County, NY., September 1993.
PB94-963806/REB 94-04 Standing Order

EPA/ROD/R02-93/220
Superfund Record of Decision (EPA Region 2): Wilson Farm, Plumsted Township, Ocean County, NJ., August 1993.
PB94-963808/REB 94-04 Standing Order

EPA/ROD/R02-93/222
Superfund Record of Decision (EPA Region 2): Woodland Township, Route 72 and Route 532 Dump Sites, Burlington County, Chatsworth, NJ., September 1993.
PB94-963809/REB 94-04 Standing Order

EPA/ROD/R03-94/179
Superfund Record of Decision (EPA Region 3): Aladdin Plating Site (Operable Unit 2), Lackawanna County, PA., December 1993.
PB94-963902/REB 94-04 Standing Order

EPA/ROD/R03-94/181
Superfund Record of Decision (EPA Region 3): Austin Avenue Radiation Site, Delaware County, PA., June 1994.
PB94-963918/REB 94-04 Standing Order

EPA/ROD/R03-94/184
Superfund Record of Decision (EPA Region 3): Bell Landfill Superfund Site, Bradford County, PA., September 1994.
PB94-963921/REB 94-04 Standing Order

EPA/ROD/R03-94/185
Superfund Record of Decision (EPA Region 3): Buckingham County Landfill Superfund Site, VA., September 1994.
PB94-963922/REB 94-04 Standing Order

EPA/ROD/R03-93/172
Superfund Record of Decision (EPA Region 3): Delaware Sand and Gravel Site, (Amendment), New Castle, DE., September 1993.
PB94-963914/REB 94-04 Standing Order

EPA/ROD/R03-93/163
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, DE., November 1992.
PB94-963915/REB 94-04 Standing Order

EPA/ROD/R03-93/169
Superfund Record of Decision (EPA Region 3): Eastern Diversified Metals, Operable Unit 2, Hometown, PA., September 1993.
PB94-963913/REB 94-04 Standing Order

EPA/ROD/R03-94/178
Superfund Record of Decision (EPA Region 3): Hranica Landfill Site (Operable Unit 2), Butler County, PA., May 1994.
PB94-963901/REB 94-04 Standing Order

EPA/ROD/R03-93/175
Superfund Record of Decision (EPA Region 3): Naval Air Development Center, Operable Unit 1, Bucks County, PA., September 1993.
PB94-963905/REB 94-04 Standing Order

EPA/ROD/R03-93/173
Superfund Record of Decision (EPA Region 3): Novak Sanitary Landfill, Lehigh County, PA., September 1993.
PB94-963911/REB 94-04 Standing Order

EPA/ROD/R03-93/166
Superfund Record of Decision (EPA Region 3): Occidental Chemical Corporation, Montgomery County, PA., June 1993.
PB94-963910/REB 94-04 Standing Order

EPA/ROD/R03-93/164
Superfund Record of Decision (EPA Region 3): Ohio River Park, Operable Unit 2, Neville Island, PA., March 1993.
PB94-963909/REB 94-04 Standing Order

EPA/ROD/R03-93/167
Superfund Record of Decision (EPA Region 3): Recticon/Allied Steel, Parker Ford, PA., June 1993.
PB94-963908/REB 94-04 Standing Order

EPA/ROD/R03-93/168
Superfund Record of Decision (EPA Region 3): Rentokil/Virginia Wood Preserving, Richmond, VA., June 1993.
PB94-963912/REB 94-04 Standing Order

EPA/ROD/R03-94/180
Superfund Record of Decision (EPA Region 3): Revere Chemical Site, Nockamixon Township, Bucks County, PA., December 1993.
PB94-963903/REB 94-04 Standing Order

EPA/ROD/R03-93/165
Superfund Record of Decision (EPA Region 3): Saegertown Industrial Area Site, Crawford County, PA., January 1993.
PB94-963917/REB 94-04 Standing Order

EPA/ROD/RO3-93/174
Superfund Record of Decision (EPA Region 3): U.S. Defense General Supply Center, Operable Unit 9, Chesterfield County, VA., September 1993.
PB94-963904/REB 94-04 Standing Order

EPA/ROD/R03-93/177
Superfund Record of Decision (EPA Region 3): William Dick Lagoons, West Caln Township, Chester County, PA., March 1993.
PB94-963906/REB 94-04 Standing Order

EPA/ROD/R03-93/171
Superfund Record of Decision (EPA Region 3): Woodlawn County Landfill, Colora, MD., September 1993.
PB94-963907/REB 94-04 Standing Order

EPA/ROD/R04-93/128
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Jacksonville, NC., January 1993.
PB94-964039/REB 94-04 Standing Order

EPA/ROD/RO4-94/182
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
PB94-964053/REB 94-04 Standing Order

EPA/ROD/R04-94/184
Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

EPA/ROD/R04-93/140
Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

EPA/ROD/R04-94/185
Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

EPA/ROD/R04-93/153
Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
PB94-964046/REB 94-04 Standing Order

EPA/ROD/R04-94/181
Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

EPA/ROD/R04-93/141
Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

EPA/ROD/R04-94/179
Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

EPA/ROD/R04-93/129
Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
PB94-964047/REB 94-04 Standing Order

EPA/ROD/R04-93/154
Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

EPA/ROD/R04-94/180
Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

EPA/ROD/R04-93/142
Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

EPA/ROD/R04-93/139
Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

EPA/ROD/R04-93/155
Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

EPA/ROD/R04-93/143
Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

EPA/ROD/R04-93/156
Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964038/REB 94-04 Standing Order

EPA/ROD/R04-93/157
Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

EPA/ROD/R04-93/158
Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

EPA/ROD/R04-93/130
Superfund Record of Decision (EPA Region 4): Koppers (Morrisville Plant), Morrisville, NC., December 1992.
PB94-964026/REB 94-04 Standing Order

EPA/ROD/R04-93/131
Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
PB94-964048/REB 94-04 Standing Order

EPA/ROD/R04-93/160
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

EPA/ROD/R04-93/132
Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
PB94-964036/REB 94-04 Standing Order

EPA/ROD/R04-94/174
Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
PB94-964008/REB 94-04 Standing Order

EPA/ROD/R04-94/186
Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

EPA/ROD/R04-93/165
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

EPA/ROD/R04-93/145
Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

EPA/ROD/R04-93/146
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

EPA/ROD/R04-93/147
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

EPA/ROD/R04-93/148
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
PB94-964035/REB 94-04 Standing Order

EPA/ROD/R04-94/172
Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
PB94-964006/REB 94-04 Standing Order

EPA/ROD/R04-93/133
Superfund Record of Decision (EPA Region 4): Redwing Carriers/Saraland, Mobile County, AL., December 1992.
PB94-964030/REB 94-04 Standing Order

EPA/ROD/R04-93/134
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL., October 1992.
PB94-964028/REB 94-04 Standing Order

EPA/ROD/R04-93/149
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

EPA/ROD/R04-93/150
Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

EPA/ROD/R04-94/178
Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

EPA/ROD/R04-94/187
Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

EPA/ROD/R04-93/163
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
PB94-964020/REB 94-04 Standing Order

EPA/ROD/R04-93/164
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

EPA/ROD/R04-93/135
Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
PB94-964037/REB 94-04 Standing Order

EPA/ROD/R04-93/151
Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

EPA/ROD/R04-93/152
Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

EPA/ROD/R04-93/136
Superfund Record of Decision (EPA Region 4): T, H, Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
PB94-964017/REB 94-04 Standing Order

EPA/ROD/R04-94/167
Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Company Site, Pontiac, SC. (Interim Remedial Action), December 1993.
PB94-964001/REB 94-04 Standing Order

EPA/ROD/R04-94/183
Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

EPA/ROD/R04-93/138
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
PB94-964022/REB 94-04 Standing Order

EPA/ROD/R04-93/166
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
PB94-964021/REB 94-04 Standing Order

EPA/ROD/R04-93/137
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 17, Oak Ridge, TN., October 1992.
PB94-964023/REB 94-04 Standing Order

EPA/ROD/R04-93/161
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
PB94-964016/REB 94-04 Standing Order

EPA/ROD/R04-93/162
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

EPA/ROD/R05-93/238
Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

EPA/ROD/R05-93/230
Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

EPA/ROD/R05-94/256
Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

EPA/ROD/R05-93/231
Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

EPA/ROD/R05-93/242
Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

EPA/ROD/R05-93/233
Superfund Record of Decision (EPA Region 5): Duell-Gardner Landfill Site, Muskegon County, MI., September 1993.
PB94-963916/REB 94-04 Standing Order

EPA/ROD/R05-93/224
Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

EPA/ROD/R05-93/239
Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

EPA/ROD/R05-94/248
Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

EPA/ROD/R05-94/250
Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

EPA/ROD/R05-93/235
Superfund Record of Decision (EPA Region 5): Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

EPA/ROD/R05-94/251
Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

EPA/ROD/R05-93/226
Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

EPA/ROD/R05-93/241
Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

EPA/ROD/R05-93/240
Superfund Record of Decision (EPA Region 5): Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

EPA/ROD/R05-94/255
Superfund Record of Decision (EPA Region 5): N. W. Mauthe Site, Appleton, WI., March 1994.
PB94-964129/REB 94-04 Standing Order

EPA/ROD/R05-93/246
Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

EPA/ROD/R05-94/252
Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

EPA/ROD/R05-93/243
Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

EPA/ROD/R05-93/236
Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

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PB94-964101/REB 94-04 Standing Order

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PB94-964107/REB 94-04 Standing Order

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PB94-964133/REB 94-04 Standing Order

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Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

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Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

EPA/ROD/R05-94/253
Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

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PB94-964208/REB 94-04 Standing Order

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PB94-964209/REB 94-04 Standing Order

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PB94-964207/REB 94-04 Standing Order

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PB94-964205/REB 94-04 Standing Order

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PB94-209731/REB 94-04 PC **A02**/MF **A01**

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PB94-160488/REB 94-03 PC **A02**/MF **A01**

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PB94-209772/REB 94-04 PC **A03**/MF **A01**

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PB94-107984/REB 94-01 PC **A03**/MF **A01**

EPA/600/J-94/163
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PB94-160496/REB 94-03 PC **A02**/MF **A01**

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PB94-159357/REB 94-03 PC **A03**/MF **A01**

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PB94-160678/REB 94-03 PC **A14**/MF **A03**

EPA/600/J-94/184
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EPA/DF/MT-94/075
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PB94-500790/REB 94-02 CP **T02**

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PB94-500857/REB 94-02 CP **T02**

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PB94-500808/REB 94-02 CP **T02**

EPA/DF/MT-94/077
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PB94-176161/REB 94-03 PC **A02**/MF **A01**

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PB94-163623/REB 94-03 PC **A03**/MF **A01**

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PB94-163599/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/185
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PB94-174703/REB 94-03 PC **A02**/MF **A01**

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PB94-177748/REB 94-03 PC **A02**/MF **A01**

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PB94-163656/REB 94-03 PC **A02**/MF **A01**

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PB94-163565/REB 94-03 PC **A02**/MF **A01**

EPA/600/J-94/362
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PB94-209681/REB 94-04 PC **A03**/MF **A01**

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PB94-114832/REB 94-01 PC **A10**/MF **A03**

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PB94-163706/REB 94-03 PC **A03**/MF **A01**

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PB94-163581/REB 94-03 PC **A03**/MF **A01**

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PB94-177722/REB 94-03 PC **A02**/MF **A01**

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PB94-176187/REB 94-03 PC **A01**/MF **A01**

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PB94-163607/REB 94-03 PC **A03**/MF **A01**

EPA/600/R-92/080
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EPA/600/J-94/107
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EPA/600/J-94/019
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pH-Dependent Toxicity of Cd, Cu, Ni, Pb and Zn to 'Ceriodaphnia dubia', 'Pimephales promelas', 'Hyalella azteca' and 'Lumbriculus variegatus'.
PB94-163722/REB 94-03 PC **A02**/MF **A01**

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PB94-163615/REB 94-03 PC **A03**/MF **A01**

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EPA/600/R-94/013
Proceedings: Integrated Research Planning Meeting for Gulf of Mexico Estuaries. Held in Gulf Breeze, Florida on November 2-3, 1993.
PB94-157799/REB 94-03 PC **A05**/MF **A01**

EPA/600/J-94/178
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PB94-163573/REB 94-03 PC **A02**/MF **A01**

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PB94-176203/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/124
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PB94-177714/REB 94-03 PC **A03**/MF **A01**

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PB94-163557/REB 94-03 PC **A03**/MF **A01**

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PB94-163680/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/245
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EMAP-Estuaries, Louisianian Province-1991. Statistical Summary. Environmental Monitoring and Assessment Program.
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EPA/600/J-94/004
Enumeration of 'Vibrio vulnificus' on Membrane Filters with a Fluorescently Labeled Oligonucleotide Probe Specific for Kingdom-Level 16S rRNA Sequences.
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PB94-155538/REB 94-03 PC **A03**/MF **A01**

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EPA/600/J-94/011
Light and Electron Microscopic Comparisons of Normal Hepatocytes and Neoplastic Hepatocytes of Well-Differentiated Hepatocellular Carcinomas in a Teleost Fish.
PB94-140696/REB 94-02 PC **A03**/MF **A01**

EPA/620/R-94/001
Louisianian Province Demonstration Report. EMAP-Estuaries: 1991.
PB94-155876/REB 94-03 PC **A08**/MF **A02**

EPA/600/A-94/114
Macrophage Aggregates as Indicators of Environmental Stress. (Chapter 15).
PB94-190824/REB 94-04 PC **A03**/MF **A01**

EPA/600/A-94/033
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PB94-155371/REB 94-03 PC **A03**/MF **A01**

EPA/600/A-94/034
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PB94-155389/REB 94-03 PC **A03**/MF **A01**

EPA/600/A-93/264
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EPA/600/A-94/115
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PB94-190832/REB 94-04 PC **A01**/MF **A01**

EPA/600/J-94/005
Near-Bottom Pelagic Bacteria at a Deep-Water Sewage Sludge Disposal Site.
PB94-140753/REB 94-02 PC **A02**/MF **A01**

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PB94-191020/REB 94-04 PC **A02**/MF **A01**

EPA/600/J-94/009
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PB94-140712/REB 94-02 PC **A03**/MF **A01**

EPA/600/J-94/017
Pesticide Inputs and Risks in Coastal Wetlands.
PB94-140647/REB 94-02 PC **A02**/MF **A01**

EPA/600/J-94/236
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PB94-191079/REB 94-04 PC **A02**/MF **A01**

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EPA/600/J-94/010
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PB94-140704/REB 94-02 PC **A02**/MF **A01**

EPA/620/R-94/002
Statistical Summary: EMAP-Estuaries, Louisianian Province-1992. Environmental Monitoring and Assessment Program.
PB94-174752/REB 94-03 PC **A06**/MF **A02**

EPA/600/J-94/235
Trophic Transfer of Contaminants from Organisms Living by Chromated-Copper-Arsenate (CCA)-Treated Wood to Their Predators.
PB94-170073/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/007
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PB94-140738/REB 94-02 PC **A03**/MF **A01**

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PB94-140662/REB 94-02 PC **A01**/MF **A01**

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PB94-169968/REB 94-03 PC **A03**/MF **A01**

EPA/600/A-94/002
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PB94-130747/REB 94-02 PC **A01**/MF **A01**

EPA/600/J-93/455
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PB94-113057/REB 94-01 PC **A02**/MF **A01**

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EPA/600/J-93/513
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EPA/600/J-93/487
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PB94-130242/REB 94-02 PC **A02**/MF **A01**

EPA/600/A-94/085
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PB94-169877/REB 94-03 PC **A03**/MF **A01**

EPA/600/A-93/294
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PB94-135191/REB 94-02 PC **A03**/MF **A01**

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Effects of Contaminated Sediments on Marine Benthic Biota and Communities.
PB94-135183/REB 94-02 PC **A03**/MF **A01**

EPA/600/J-94/264
Effects of Dietary Fatty Acid Enrichment on Survival, Growth, and Salinity-Stress-Test Performance of Inland Silversides.
PB94-182649/REB 94-03 PC **A02**/MF **A01**

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RED Facts: Tebuthiuron.
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EPA/738/R-93/019
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EPA/738/R-93/024
Reregistration Eligibility Decision (RED): Barium Metaborate.
PB94-154317/REB 94-02 PC **A05/MF A01**

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Reregistration Eligibility Decision (RED): Bromine.
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Reregistration Eligibility Decision (RED): Mineral Acids.
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EPA/738/R-93/030
Reregistration Eligibility Decision (RED): Peroxy Compounds.
PB94-151529/REB 94-02 PC **A09/MF A02**

EPA/738/R-93/031
Reregistration Eligibility Decision (RED): Flower and Vegetable Oils.
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Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
PB94-964022/REB 94-04 Standing Order

EPA/ROD/R04-93/139
Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

EPA/ROD/R04-93/140
Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

EPA/ROD/R04-93/141
Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

EPA/ROD/R04-93/142
Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

EPA/ROD/R04-93/143
Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

EPA/ROD/R04-93/145
Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

EPA/ROD/R04-93/146
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

EPA/ROD/R04-93/147
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

EPA/ROD/R04-93/149
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

EPA/ROD/R04-93/150
Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

EPA/ROD/R04-93/151
Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

EPA/ROD/R04-93/152
Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

EPA/ROD/R04-93/153
Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
PB94-964046/REB 94-04 Standing Order

EPA/ROD/R04-93/154
Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

EPA/ROD/R04-93/155
Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

EPA/ROD/R04-93/156
Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964038/REB 94-04 Standing Order

EPA/ROD/R04-93/157
Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

EPA/ROD/R04-93/158
Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

EPA/ROD/R04-93/160
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

EPA/ROD/R04-93/161
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
PB94-964016/REB 94-04 Standing Order

EPA/ROD/R04-93/162
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

EPA/ROD/R04-93/163
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
PB94-964020/REB 94-04 Standing Order

EPA/ROD/R04-93/164
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

EPA/ROD/R04-93/165
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

EPA/ROD/R04-93/166
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
PB94-964021/REB 94-04 Standing Order

EPA/ROD/R04-94/167
Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Company Site, Pontiac, SC. (Interim Remedial Action), December 1993.
PB94-964001/REB 94-04 Standing Order

EPA/ROD/R04-94/169
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant Site, Paducah, KY., March 1994.
PB94-964003/REB 94-04 Standing Order

EPA/ROD/R04-94/172
Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
PB94-964006/REB 94-04 Standing Order

EPA/ROD/R04-94/174
Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
PB94-964008/REB 94-04 Standing Order

EPA/ROD/R04-94/175
Superfund Record of Decision (Region 4): General Tire Landfill Site, Mayfield, KY., October 1993.
PB94-964009/REB 94-04 Standing Order

EPA/ROD/R04-94/178
Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

EPA/ROD/R04-94/179
Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

EPA/ROD/R04-94/180
Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

EPA/ROD/R04-94/181
Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

EPA/ROD/R04-94/183
Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

EPA/ROD/R04-94/184
Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

EPA/ROD/R04-94/185
Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

EPA/ROD/R04-94/186
Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

EPA/ROD/R04-94/187
Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

EPA/ROD/R05-93/224
Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

EPA/ROD/R05-93/226
Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

EPA/ROD/R05-93/227
Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

EPA/ROD/R05-93/228
Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

EPA/ROD/R05-93/229
Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

EPA/ROD/R05-93/230
Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

EPA/ROD/R05-93/231
Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

EPA/ROD/R05-93/232
Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

EPA/ROD/R05-93/233
Superfund Record of Decision (EPA Region 5): Duell-Gardner Landfill Site, Muskegon County, MI., September 1993.
PB94-963916/REB 94-04 Standing Order

EPA/ROD/R05-93/235
Superfund Record of Decision (EPA Region 5); Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

EPA/ROD/R05-93/236
Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

EPA/ROD/R05-93/237
Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

EPA/ROD/R05-93/238
Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

EPA/ROD/R05-93/239
Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

EPA/ROD/R05-93/240
Superfund Record of Decision (EPA Region 5); Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

EPA/ROD/R05-93/241
Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

EPA/ROD/R05-93/242
Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

EPA/ROD/R05-93/243
Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

EPA/ROD/R05-93/244
Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

EPA/ROD/R05-93/245
Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

EPA/ROD/R05-93/246
Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

EPA/ROD/R05-94/247
Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

EPA/ROD/R05-94/248
Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

EPA/ROD/R05-94/249
Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
PB94-964132/REB 94-04 Standing Order

EPA/ROD/R05-94/250
Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

EPA/ROD/R05-94/251
Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

EPA/ROD/R05-94/252
Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

EPA/ROD/R05-94/253
Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

EPA/ROD/R05-94/254
Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
PB94-964128/REB 94-04 Standing Order

EPA/ROD/R05-94/256
Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

EPA/ROD/R05-94/257
Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
PB94-964131/REB 94-04 Standing Order

EPA/ROD/R05-94/258
Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
PB94-964133/REB 94-04 Standing Order

EPA/ROD/R06-93/078
Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
PB94-964209/REB 94-04 Standing Order

EPA/ROD/R06-93/079
Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
PB94-964205/REB 94-04 Standing Order

EPA/ROD/R06-93/080
Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
PB94-964201/REB 94-04 Standing Order

EPA/ROD/R06-93/081
Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
PB94-964207/REB 94-04 Standing Order

EPA/ROD/R06-93/082
Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
PB94-964202/REB 94-04 Standing Order

EPA/ROD/R06-93/083
Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
PB94-964206/REB 94-04 Standing Order

EPA/ROD/R06-93/084
Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
PB94-964203/REB 94-04 Standing Order

EPA/ROD/R06-93/085
Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
PB94-964204/REB 94-04 Standing Order

EPA/ROD/R06-93/086
Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
PB94-964208/REB 94-04 Standing Order

EPA/ROD/R07-93/062
Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
PB94-964306/REB 94-04 Standing Order

EPA/ROD/R07-93/063
Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
PB94-964303/REB 94-04 Standing Order

EPA/ROD/R07-93/064
Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
PB94-964309/REB 94-04 Standing Order

EPA/ROD/R07-93/065
Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
PB94-964310/REB 94-04 Standing Order

EPA/ROD/R07-93/066
Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
PB94-964301/REB 94-04 Standing Order

EPA/ROD/R07-93/067
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
PB94-964302/REB 94-04 Standing Order

EPA/ROD/R07-93/068
Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
PB94-964307/REB 94-04 Standing Order

EPA/ROD/R07-93/069
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
PB94-964311/REB 94-04 Standing Order

EPA/ROD/R07-93/070
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
PB94-964308/REB 94-04 Standing Order

EPA/ROD/R07-93/071
Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
PB94-964304/REB 94-04 Standing Order

EPA/ROD/R07-93/072
Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
PB94-964305/REB 94-04 Standing Order

EPA/ROD/R07-94/073
Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
PB94-964312/REB 94-04 Standing Order

EPA/ROD/R08-93/068
Superfund Record of Decision (EPA Region 8): Eagle Mine Site, Operable Unit 1, Eagle County, CO., March 1993.
PB94-964416/REB 94-04 Standing Order

EPA/ROD/R08-93/069
Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
PB94-964405/REB 94-04 Standing Order

EPA/ROD/R08-93/070
Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
PB94-964408/REB 94-04 Standing Order

EPA/ROD/R08-93/071
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 2, Commerce City, CO., June 1993.
PB94-964413/REB 94-04 Standing Order

EPA/ROD/R08-93/072
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Units 3 and 6, Commerce City, CO., June 1993.
PB94-964415/REB 94-04 Standing Order

EPA/ROD/R08-93/073
Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
PB94-964406/REB 94-04 Standing Order

EPA/ROD/R08-93/074
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
PB94-964412/REB 94-04 Standing Order

EPA/ROD/R08-93/076
Superfund Record of Decision (EPA Region 8): Chemical Sales Company Site, Operable Unit 4, Commerce City, CO., December 1992.
PB94-964414/REB 94-04 Standing Order

EPA/ROD/R08-93/077
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
PB94-964409/REB 94-04 Standing Order

EPA/ROD/R08-93/078
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
PB94-964410/REB 94-04 Standing Order

EPA/ROD/R08-93/079
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
PB94-964411/REB 94-04 Standing Order

EPA/ROD/R08-94/081
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
PB94-964402/REB 94-04 Standing Order

EPA/ROD/R08-94/084
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 4, UT., June 1994.
PB94-964417/REB 94-04 Standing Order

EPA/ROD/R09-93/087
Superfund Record of Decision (EPA Region 9): Sacramento Army Depot, Burn Pits Operable Unit, Sacramento, CA., February 1993.
PB94-964521/REB 94-04 Standing Order

EPA/ROD/R09-93/088
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1 through 4, Whittier Narrows Operable Unit, Los Angeles County, CA., March 1993.
PB94-964524/REB 94-04 Standing Order

EPA/ROD/R09-93/089
Superfund Record of Decision (EPA Region 9): Sharpe Army Depot, Operable Unit 1, Lathrop, CA., January 1993.
PB94-964518/REB 94-04 Standing Order

EPA/ROD/R09-93/090
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 2, Phoenix, AZ., December 1992.
PB94-964514/REB 94-04 Standing Order

EPA/ROD/R09-93/091
Superfund Record of Decision (EPA Region 9): Liquid Gold Oil Corporation, Richmond, CA., June 1993.
PB94-964517/REB 94-04 Standing Order

EPA/ROD/R09-93/092
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 2, Los Angeles County, CA., June 1993.
PB94-964527/REB 94-04 Standing Order

EPA/ROD/R09-93/093
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 3, Los Angeles County, CA., June 1993.
PB94-964523/REB 94-04 Standing Order

EPA/ROD/R09-93/094
Superfund Record of Decision (EPA Region 9): Lorentz Barrel and Drum Site, Operable Unit 1, San Jose, CA., August 1993.
PB94-964522/REB 94-04 Standing Order

EPA/ROD/R09-93/095
Superfund Record of Decision (EPA Region 9): McColl Site, Source Operable Unit, Fullerton, CA., June 1993.
PB94-964520/REB 94-04 Standing Order

EPA/ROD/R09-93/096
Superfund Record of Decision (EPA Region 9): Applied Materials, Inc., Santa Clara, CA., August 1993.
PB94-964528/REB 94-04 Standing Order

EPA/ROD/R09-93/097
Superfund Record of Decision (EPA Region 9): Newmark Groundwater Contamination Site, San Bernardino, CA., August 1993.
PB94-964516/REB 94-04 Standing Order

EPA/ROD/R09-93/099
Superfund Record of Decision (EPA Region 9): Fresno Sanitary Landfill Site, Fresno, CA., September 1993.
PB94-964519/REB 94-04 Standing Order

EPA/ROD/R09-93/100
Superfund Record of Decision (EPA Region 9): Hexcel, Livermore, CA., September 1993.
PB94-964510/REB 94-04 Standing Order

EPA/ROD/R09-93/101
Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Shasta County, CA., September 1993.
PB94-964511/REB 94-04 Standing Order

EPA/ROD/R09-93/102
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1-4, Suburban Water Systems/ Bartolo Well Field Operable Unit, (Amendment), CA., September 1993.
PB94-964525/REB 94-04 Standing Order

EPA/ROD/R09-93/103
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot, Operable Unit 1, Tracy, CA., August 1993.
PB94-964515/REB 94-04 Standing Order

EPA/ROD/R09-93/104
Superfund Record of Decision (EPA Region 9): McClellan Air Force Base, Operable Unit B1, CA., September 1993.
PB94-964526/REB 94-04 Standing Order

EPA/ROD/R09-94/105
Superfund Record of Decision (EPA Region 9): Indian Bend Wash Site, Tempe, AZ., September 1993.
PB94-964501/REB 94-04 Standing Order

EPA/ROD/R09-94/106
Superfund Record of Decision (EPA Region 9): Baldwin Park San Gabriel Valley Area Site, Los Angeles County, CA., March 1994.
PB94-964502/REB 94-04 Standing Order

EPA/ROD/R09-94/107
Superfund Record of Decision (EPA Region 9): Aircraft Control and Warning Site, Mather Air Force Base, CA., December 1993.
PB94-964503/REB 94-04 Standing Order

EPA/ROD/R09-94/110
Superfund Record of Decision (EPA Region 9): Castle Air Force Base (Operable Unit 2), Merced County, CA., November 1993.
PB94-964506/REB 94-04 Standing Order

EPA/ROD/R09-94/111
Superfund Record of Decision (EPA Region 9): Southern California Edison, Visalia Pole Yard, Visalia, CA., June 1994.
PB94-964507/REB 94-04 Standing Order

EPA/ROD/R09-94/112
Superfund Record of Decision (EPA Region 9): Riverbank Army Ammunition Plant Site, Riverbank, CA., March 1994.
PB94-964508/REB 94-04 Standing Order

EPA/ROD/R09-94/113
Superfund Record of Decision (EPA Region 9): Norton Air Force Base, San Bernardino, CA., November 1993.
PB94-964509/REB 94-04 Standing Order

EPA/ROD/R09-94/114
Superfund Record of Decision (EPA Region 9): Waste Disposal, Inc., Santa Fe Springs, CA., December 1993.
PB94-964512/REB 94-04 Standing Order

EPA/ROD/R09-94/115
Superfund Record of Decision (EPA Region 9): George Air Force Base, Operable Unit 1, San Bernardino County, CA., March 1994.
PB94-964513/REB 94-04 Standing Order

EPA/ROD/R09-94/116
Superfund Record of Decision (EPA Region 9): Motorola 52nd Street, Operable Unit 2, Phoenix, AZ., July 1994.
PB94-964529/REB 94-04 Standing Order

EPA/ROD/R09-94/117
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 1, AZ., April 1994.
PB94-964530/REB 94-04 Standing Order

EPA/ROD/R09-94/118
Superfund Record of Decision (EPA Region 9): Fort Ord, CA., February 1994.
PB94-964531/REB 94-04 Standing Order

EPA/ROD/R10-93/052
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Application for Certification 1993 Model Year Light-Duty Vehicles - Rolls Royce.
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PB94-142270/REB 94-02 PC A06/MF A02

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PB94-214145/REB 94-04 PC **A05**/MF **A01**

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SYSAPP-86/106
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(EPA/600/J-94/233)
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PB94-130010/REB 94-02 PC **A11**/MF **A03**

EPA-CR-818614-01-0
Dayton Univ., OH. Research Inst.
PB94-182680/REB 94-03 PC **A03**/MF **A01**

EPA-CR-818658
North Carolina Univ. at Chapel Hill. Dept. of Environmental Sciences and Engineering.
PB94-101722/REB 94-01 PC **A03**/MF **A01**

EPA-CR-819504-01-0
National Research Council, Washington, DC. Board on Environmental Studies and Toxicology.
PB94-124724/REB 94-02 PC **A09**/MF **A02**

EPA-CR-819594-01-0
Dayton Univ., OH. Research Inst.
PB94-182680/REB 94-03 PC **A03**/MF **A01**

EPA-CR815152010
Armstrong Lab., Brooks AFB, TX.
PB94-146453/REB 94-02 PC **A03**/MF **A01**

EPA-CX-820957
Terrene Inst., Inc., Washington, DC.
PB94-188620/REB 94-04 PC **A10**/MF **A03**

EPA-D995787-01
Illinois Univ. at Chicago Circle. School of Public Health.
PB94-104353/REB 94-01 PC **A10**/MF **A03**

EPA-R-815-182
Clarkson Univ., Potsdam, NY. Dept. of Civil and Environmental Engineering.
PB94-174737/REB 94-03 PC **A02**/MF **A01**

EPA-R-83565
Environmental Health Research and Testing, Inc., Research Triangle Park, NC.
PB94-163862/REB 94-03 PC **A02**/MF **A01**

EPA-R811806
Arizona Univ., Tucson. Div. of Respiratory Sciences.
PB94-143765/REB 94-02 PC **A03**/MF **A01**

EPA-R-812100
Howard Univ., Washington, DC. Dept. of Botany.
PB94-137320/REB 94-02 PC **A02**/MF **A01**

EPA-R-812638
Georgia Univ., Athens.
PB94-190485/REB 94-04 PC **A02**/MF **A01**

EPA-R-813113
California Univ., Davis. School of Veterinary Medicine.
PB94-137049/REB 94-02 PC **A02**/MF **A01**

Chemical Industry Inst. of Toxicology, Research Triangle Park, NC.
PB94-137031/REB 94-02 PC **A03**/MF **A01**

Duke Univ. Medical Center, Durham, NC.
PB94-141462/REB 94-02 PC **A03**/MF **A01**

Duke Univ. Medical Center, Durham, NC. Center for Extrapolation Modelling.
PB94-137056/REB 94-02 PC **A03**/MF **A01**

PB94-139490/REB 94-02 PC **A03**/MF **A01**

North Carolina Univ. at Chapel Hill. Center for Environmental Medicine and Lung Biology.
PB94-163755/REB 94-03 PC **A02**/MF **A01**

EPA-R813155
Woods Hole Oceanographic Institution, MA.
PB94-140787/REB 94-02 PC **A02**/MF **A01**

Woods Hole Oceanographic Institution, MA. Dept. of Biology.
PB94-170040/REB 94-03 PC **A02**/MF **A01**

EPA-R-813336
Nevada Univ., Reno. Dept. of Biochemistry.
PB94-135068/REB 94-02 PC **A02**/MF **A01**

EPA-R-813357
Washington Univ., St. Louis, MO. Center for Air Pollution Impact and Trend Analysis.
PB94-113073/REB 94-01 PC **A02**/MF **A01**

EPA-R813415-01
North Carolina Univ. at Morehead City. Inst. of Marine Sciences.
PB94-140639/REB 94-02 PC **A02**/MF **A01**

EPA-R-813431
New York Univ., NY. Dept. of Biology.
PB94-136157/REB 94-02 PC **A03**/MF **A01**

EPA-R-813471
Georgia Inst. of Tech., Atlanta. School of Earth and Atmospheric Sciences.
PB94-190501/REB 94-04 PC **A02**/MF **A01**

EPA-R813650
New York Univ., NY. Dept. of Biology.
PB94-136157/REB 94-02 PC **A03**/MF **A01**

EPA-R-813769
Duke Univ. Medical Center, Durham, NC. Dept. of Pharmacology.
PB94-163953/REB 94-03 PC **A02**/MF **A01**

EPA-R813933
Electric Power Research Inst., Palo Alto, CA.
PB94-136124/REB 94-02 PC **A03**/MF **A01**

EPA-R-814121-02-4
North Carolina State Univ. at Raleigh.
PB94-209616/REB 94-04 PC **A03**/MF **A01**

EPA-R-814126
Howard Univ., Washington, DC. Dept. of Botany.
PB94-137320/REB 94-02 PC **A02**/MF **A01**

EPA-R-814566-01-2
Pennsylvania Cooperative Fish and Wildlife Research Unit, University Park.
PB94-113024/REB 94-01 PC **A02**/MF **A01**

Pennsylvania State Univ., University Park. Environmental Resources Research Inst.
PB94-135043/REB 94-02 PC **A03**/MF **A01**

Pennsylvania State Univ., University Park. School of Forest Resources.
PB94-117546/REB 94-01 PC **A03**/MF **A01**

EPA-R-814611
New York Univ. Medical Center, NY.
PB94-135076/REB 94-02 PC **A02**/MF **A01**

EPA-R-814721
Rhode Island Univ., Kingston.
PB94-182649/REB 94-03 PC **A02**/MF **A01**

Rhode Island Univ., Kingston. Dept. of Zoology.
PB94-135100/REB 94-02 PC **A02**/MF **A01**

PB94-182656/REB 94-03 PC **A03**/MF **A01**

EPA-R-814903
Louisville Univ., KY. Dept. of Chemical Engineering.
PB94-119914/REB 94-01 PC **A02**/MF **A01**

PB94-119922/REB 94-01 PC **A02**/MF **A01**

PB94-119930/REB 94-01 PC **A02**/MF **A01**

EPA-R-814945-01-0
Acurex Corp., Research Triangle Park, NC.
PB94-169463/REB 94-03 PC **A07**/MF **A02**

Arkansas Univ., Fayetteville. Dept. of Mathematical Sciences.
PB94-143781/REB 94-02 PC **A03**/MF **A01**

EPA-R-814946
Auburn Univ., AL. Dept. of Agronomy and Soils.
PB94-130754/REB 94-02 PC **A08**/MF **A02**

Princeton Univ., NJ. Dept. of Civil Engineering and Operations Research.
PB94-159373/REB 94-03 PC **A03**/MF **A01**

EPA-R-814950
Minnesota Univ.-Duluth. Natural Resources Research Inst.
PB94-177722/REB 94-03 PC **A02**/MF **A01**

EPA-R-815293
Woods Hole Oceanographic Institution, MA. Dept. of Chemistry.
PB94-158821/REB 94-03 PC **A03**/MF **A01**

EPA-R-815310-02
Manhattan Coll., Bronx, NY. Dept. of Environmental Engineering and Science.
PB94-155496/REB 94-03 PC **A03**/MF **A01**

EPA-R-815415
Georgia Univ., Athens.
PB94-191103/REB 94-04 PC **A03**/MF **A01**

EPA-R-815422
State Univ. of New York Coll. of Environmental Science and Forestry, Syracuse.
PB94-191186/REB 94-04 PC **A03**/MF **A01**

SUNY-ESF, Syracuse, NY.
PB94-169893/REB 94-03 PC **A02**/MF **A01**

EPA-R-815788-02
Environmental Protection Service, Burlington (Ontario). Waste Water Technology Centre.
PB94-170230/REB 94-03 PC **A05**/MF **A01**

EPA-R-815792-01-0
Center for Hazardous Materials Research, Pittsburgh, PA.
PB94-188109/REB 94-04 PC **A04**/MF **A01**

EPA-R-815830-01-0
Michigan State Univ., East Lansing.
PB94-163730/REB 94-03 PC **A02**/MF **A01**

EPA-R-816183
Maryland Univ., College Park. Survey Research Center.
PB94-197464/REB 94-04 PC **A03**/MF **A01**

EPA-R-816277-01-0
Duke Univ. Medical Center, Durham, NC. Dept. of Cell Biology.
PB94-101581/REB 94-01 PC **A02**/MF **A01**

EPA-R-816385-01-0
Oak Ridge National Lab., TN.
PB94-189446/REB 94-04 PC **A04**/MF **A01**

EPA-R-816496
MCNC, Research Triangle Park, NC. Information Technologies Div.
PB94-158623/REB 94-03 PC **A02**/MF **A01**

MCNC, Research Triangle Park, NC. North Carolina Supercomputing Center.
PB94-210549/REB 94-04 PC **A03**/MF **A01**

North Carolina Supercomputing Center, Research Triangle Park, NC.
PB94-192770/REB 94-04 PC **A03**/MF **A01**

EPA-R-816700
Cincinnati Univ., OH. Dept. of Civil and Environmental Engineering.
PB94-157278/REB 94-03 PC **A03**/MF **A01**

PB94-157294/REB 94-03 PC **A02**/MF **A01**

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PB94-198025/REB 94-04 PC **A03**/MF **A01**

Cincinnati Univ., OH. Dept. of Environmental Health.
PB94-157336/REB 94-03 PC A03/MF A01

Dames and Moore, Cincinnati, OH.
PB94-155223/REB 94-03 PC A03/MF A01

PB94-155249/REB 94-03 PC A03/MF A01

Pittsburgh Univ., PA.
PB94-155470/REB 94-02 PC A02/MF A01

EPA-R-816721
Oregon State Univ., Corvallis. Dept. of Statistics.
PB94-160546/REB 94-03 PC A03/MF A01

State Univ. of New York Coll. of Environmental Science and Forestry, Syracuse.
PB94-191166/REB 94-04 PC A03/MF A01

SUNY-ESF, Syracuse, NY.
PB94-169893/REB 94-03 PC A02/MF A01

EPA-R-816762
Erie County Dept. of Environment and Planning, Buffalo, NY.
PB94-121696/REB 94-01 PC A06/MF A02

PB94-193216/REB 94-04 PC A04/MF A01

EPA-R816776
Stanford Univ., CA. Dept. of Civil Engineering.
PB94-144696/REB 94-02 PC A04/MF A01

PB94-210465/REB 94-04 PC A03/MF A01

EPA-R-816786
IIT Research Inst., Chicago, IL.
PB94-122561/REB 94-01 PC A02/MF A01

EPA-R-816813
Aluminum Co. of America, Pittsburgh, PA.
PB94-163532/REB 94-03 PC A02/MF A01

EPA-R-816821
ENSR Consulting and Engineering, Acton, MA.
PB94-158789/REB 94-03 PC A03/MF A01

EPA-R-816875
Oregon State Univ., Corvallis. Dept. of Chemistry.
PB94-158797/REB 94-03 PC A02/MF A01

EPA-R-817367-01
Florida Univ., Gainesville.
PB94-163243/REB 94-03 PC A03/MF A01

EPA-R-817453-01-0
Potsdam Inst. for Climate Impact Research, Potsdam (Germany).
PB94-157351/REB 94-03 PC A03/MF A01

EPA-R-817522
Lockheed Environmental Systems and Technologies Co., Las Vegas, NV.
PB94-191129/REB 94-04 PC A02/MF A01

EPA-R817542
Virginia Univ., Charlottesville. Dept. of Environmental Sciences.
PB94-136132/REB 94-02 PC A02/MF A01

EPA-R817586-01
University of Central Florida, Orlando. Coll. of Engineering.
PB94-130135/REB 94-02 PC A03/MF A01

EPA-R-817587-01
Connecticut Univ., Storrs. Dept. of Geology and Geophysics.
PB94-160686/REB 94-03 PC A05/MF A01

EPA-R-817587-02
Connecticut Univ., Storrs. Dept. of Geology and Geophysics.
PB94-160686/REB 94-03 PC A05/MF A01

EPA-R-817633-01-0
Virginia Univ., Charlottesville. Dept. of Environmental Sciences.
PB94-136132/REB 94-02 PC A02/MF A01

EPA-R-817643
North Carolina Univ. at Chapel Hill. Center for Environmental Medicine and Lung Biology.
PB94-163748/REB 94-03 PC A02/MF A01

PB94-163755/REB 94-03 PC A02/MF A01

North Carolina Univ. at Chapel Hill. Curriculum in Toxicology.
PB94-197191/REB 94-04 PC A03/MF A01

EPA-R-817643-01-0
North Carolina Univ. at Chapel Hill. Center for Environmental Medicine and Lung Biology.
PB94-137197/REB 94-02 PC A03/MF A01

EPA-R-817670
Center for Hazardous Materials Research, Pittsburgh, PA.
PB94-159116/REB 94-03 PC A06/MF A02

EPA-R-817734
Marine Biological Lab., Woods Hole, MA. Ecosystems Center.
PB94-174729/REB 94-03 PC A03/MF A01

EPA-R-817791-01
Center of Marine Biotechnology, Baltimore, MD.
PB94-140753/REB 94-02 PC A02/MF A01

EPA-R-817931
Surrey Univ., Guildford (England). Dept. of Mechanical Engineering.
PB94-158771/REB 94-03 PC A03/MF A01

EPA-R818210
Nutech Energy Systems, Inc., London (Ontario). Environmental Div.
PB94-130184/REB 94-02 PC A03/MF A01

EPA-R-818238
CalRecovery, Inc., Hercules, CA.
PB94-114824/REB 94-01 PC A04/MF A01

WTE Corp., Bedford, MA.
PB94-114816/REB 94-01 PC A05/MF A01

EPA-R-818282-02
Research Triangle Inst., Research Triangle Park, NC.
PB94-190665/REB 94-04 PC A03/MF A01

EPA-R-818311
Stanford Univ., CA. Dept. of Statistics.
PB94-130432/REB 94-02 PC A05/MF A01

PB94-197415/REB 94-04 PC A03/MF A01

EPA-R-818410
University of Southern California, Los Angeles. Environmental Engineering Program.
PB94-192762/REB 94-04 PC A03/MF A01

EPA-R-818419
Research Triangle Inst., Research Triangle Park, NC.
PB94-190960/REB 94-04 PC A03/MF A01

EPA-R818550-01-0
National Inst. of Environmental Health Sciences, Research Triangle Park, NC. Div. of Intramural Research.
PB94-141488/REB 94-02 PC A03/MF A01

EPA-R-818572-01-0
Washington State Univ., Pullman. Lab. for Atmospheric Research.
PB94-155397/REB 94-03 PC A03/MF A01

EPA-R-818647
Michigan Univ., Ann Arbor. Dept. of Civil and Environmental Engineering.
PB94-137015/REB 94-02 PC A03/MF A01

PB94-137023/REB 94-02 PC A02/MF A01

State Univ. of New York at Buffalo. Dept. of Civil Engineering.
PB94-189693/REB 94-04 PC A03/MF A01

EPA-R-818676-01-0
University of West Florida, Pensacola. Center for Environmental Diagnostics and Bioremediation.
PB94-140720/REB 94-02 PC A02/MF A01

EPA-R-818709
Oklahoma Agricultural Experiment Station, Stillwater.
PB94-157765/REB 94-03 PC A09/MF A03

EPA-R-818720
Colorado School of Mines, Golden. International Ground Water Modeling Center.
PB94-157773/REB 94-03 PC A07/MF A02

EPA-R-819053
Georgia Univ., Athens. School of Forest Resources.
PB94-119997/REB 94-01 PC A03/MF A01

EPA-R-819541
Research Triangle Inst., Research Triangle Park, NC.
PB94-152246/REB 94-02 PC A23/MF A04

PB94-190681/REB 94-04 PC A02/MF A01

PB94-190931/REB 94-04 PC A03/MF A01

EPA-R-819573
Alabama Univ. at Birmingham.
PB94-165354/REB 94-03 PC A09/MF A03

EPA-R-819584-01-0
Dayton Univ., OH. Dept. of Environmental Science and Engineering.
PB94-182219/REB 94-03 PC A02/MF A01

EPA-R-819589-01-0
Virginia Polytechnic Inst. and State Univ., Blacksburg. Dept. of Mechanical Engineering.
PB94-190915/REB 94-04 PC A03/MF A01

Virginia Polytechnic Inst., Blacksburg. Dept. of Mechanical Engineering.
PB94-161270/REB 94-03 PC A06/MF A02

EPA-R-819695-01
Akron Univ., OH. Dept. of Chemical Engineering.
PB94-155330/REB 94-02 PC A02/MF A01

EPA-R-820602
Purdue Univ., Lafayette, IN.
PB94-196041/REB 94-04 PC A03/MF A01

EPA-R-820678
Florida Univ., Gainesville. Dept. of Soil and Water Science.
PB94-162740/REB 94-03 PC A03/MF A01

EPA-R-822025-01-0
Research Triangle Inst., Research Triangle Park, NC.
PB94-190949/REB 94-04 PC A03/MF A01

EPA-R814017020
Illinois Univ. at Urbana-Champaign. Dept. of Plant Biology.
PB94-144730/REB 94-02 PC A03/MF A01

EPA-S005207-01
Illinois State Environmental Protection Agency, Springfield. Div. of Water Pollution Control.
PB94-183092/REB 94-03 PC A06/MF A02

EPA-X-820626-01-0/1/2
Northern Virginia Soil and Water Conservation District, Fairfax.
PB94-213683/REB 94-04 PC A05/MF A02

EPA-1D3253NAEX
Washington Univ., Seattle.
PB94-186731/REB 94-03 PC A03/MF A01

EPA-3D1540NASA
Bread Board System Consultants, Inc., Durham, NC.
PB94-128543/REB 94-02 PC A03/MF A01

EPA-68-01-0029
Midwest Research Inst., Kansas City, MO.
PB94-182334/REB 94-03 PC A03/MF A01

EPA-68-01-3881
JRB Associates, Inc., McLean, VA.
PB94-194859/REB 94-04 PC A14/MF A03

EPA-68-01-3887
SRI International, Menlo Park, CA.
PB94-109543/REB 94-01 PC A03/MF A01

EPA-68-01-4766
Gulf South Research Inst., New Orleans, LA.
PB94-140324/REB 94-02 PC A04/MF A01

EPA-68-01-6195
Dalton-Dalton-Newport, Inc., Cleveland, OH.
PB94-114808/REB 94-01 PC A08/MF A02

EPA-68-01-6197
CLV Industries, Inc., Cambridge, MA.
PB94-177516/REB 94-03 PC A03/MF A01

EPA-68-01-7359
Westat, Inc., Rockville, MD. Research Div.
PB94-138815/REB 94-02 PC A16/MF A03

EPA-68-01-7365
Computer Sciences Corp., Narragansett, RI.
PB94-135191/REB 94-02 PC A03/MF A01

Computer Sciences Corp., Research Triangle Park, NC.
PB94-197043/REB 94-04 PC A05/MF A01

PB94-197050/REB 94-04 PC A04/MF A01

MCNC, Research Triangle Park, NC. Information Technologies Div.
PB94-158623/REB 94-03 PC A02/MF A01

Science Applications International Corp., Narragansett, RI.
PB94-171659/REB 94-03 PC A07/MF A02

SQC Systems, Athens, GA.
PB94-119989/REB 94-01 PC A03/MF A01

EPA-68-01-7379
Westat, Inc., Rockville, MD. Research Div.
PB94-138815/REB 94-02 PC A16/MF A03

EPA-68-02-0062
Southern Research Inst., Durham, NC.
PB94-190956/REB 94-04 PC A02/MF A01

EPA-68-02-0173
TRC Environmental Corp., Chapel Hill, NC.
PB94-162708/REB 94-03 PC A03/MF A01

EPA-68-02-0181
TRC Environmental Corp., Chapel Hill, NC.
PB94-198033/REB 94-04 PC A03/MF A01

EPA-68-02-3584
Geomet Technologies, Inc., Germantown, MD.
PB94-183373/REB 94-03 PC A04/MF A01

PB94-186020/REB 94-04 PC A07/MF A02

EPA-68-02-3889
Systems Applications International, San Rafael, CA.
PB94-183357/REB 94-03 PC A04/MF A01

EPA-68-02-3962
SERENYI Systems, Gaithersburg, MD.
PB94-134210/REB 94-02 PC A18/MF A04

EPA-68-02-3963
IT Corp., Cincinnati, OH.
PB94-131810/REB 94-02 PC A99/MF E11

EPA-68-02-4252
Midwest Research Inst., Kansas City, MO.
PB94-101904/REB 94-01 PC A03/MF A01

EPA-68-02-4263
National Food Processors Association, Dublin, CA.
PB94-107885/REB 94-02 PC A09/MF A02

EPA-68-02-4442
Radian Corp., Research Triangle Park, NC.
PB94-197480/REB 94-04 PC A01/MF A01

EPA-68-02-4443
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-143757/REB 94-02 PC A03/MF A01

EPA-68-02-4450
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-101573/REB 94-01 PC A02/MF A01

PB94-137262/REB 94-02 PC A03/MF A01

PB94-197084/REB 94-04 PC A03/MF A01

PB94-202074/REB 94-04 PC A03/MF A01

PB94-202140/REB 94-04 PC A03/MF A01

EPA-68-02-4456
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-143757/REB 94-02 PC A03/MF A01

National Inst. of Environmental Health Sciences, Research Triangle Park, NC.
PB94-163839/REB 94-03 PC A03/MF A01

ZENECA Central Toxicology Lab., Cheshire (England).
PB94-143732/REB 94-02 PC A03/MF A01

EPA-68-02-4701
Acurex Environmental Corp., Research Triangle Park, NC.
PB94-114618/REB 94-01 PC A03/MF A01
PB94-143773/REB 94-02 PC A02/MF A01

EPA-68-03-3379
Cincinnati Univ., OH. Dept. of Civil and Environmental Engineering.
PB94-159308/REB 94-03 PC A03/MF A01
PB94-169992/REB 94-03 PC A01/MF A01

EPA-68-03-3409
CDM Federal Programs Corp., Fairfax, VA.
PB94-113065/REB 94-01 PC A03/MF A01

EPA-68-03-3450
Weston (Roy F.), Inc., West Chester, PA.
PB94-122553/REB 94-01 PC A02/MF A01
PB94-205531/REB 94-04 PC A07/MF A02

EPA-68-03-3479
Technical Resources, Inc., Gulf Breeze, FL.
PB94-191046/REB 94-04 PC A02/MF A01

EPA-68-03-3511
Midwest Research Inst., Kansas City, MO.
PB94-182334/REB 94-03 PC A03/MF A01

EPA-68-03-3513
AQUA TERRA Consultants, Mountain View, CA.
PB94-114865/REB 94-01 PC A99/MF A06

EPA-68-03-3529
Science Applications International Corp., Narragansett, RI.
PB94-113057/REB 94-01 PC A02/MF A01

EPA-68-03-3533
Midwest Research Inst., Kansas City, MO.
PB94-119229/REB 94-01 PC A06/MF A02

EPA-68-03-3552
ASci Corp., Newport, OR.
PB94-131505/REB 94-02 PC A11/MF A03

EPA-68-03-4006
Environmental Quality Management, Inc., Cincinnati, OH.
PB94-136116/REB 94-02 PC A02/MF A01

EPA-68-03-4038
Cincinnati Univ., OH. Dept. of Civil and Environmental Engineering.
PB94-113750/REB 94-01 PC A03/MF A01

EPA-68-09-0131
Acurex Environmental Corp., Research Triangle Park, NC.
PB94-132180/REB 94-02 PC A23/MF A04

EPA-68-090173
TRC, Lowell, MA.
PB94-189453/REB 94-04 PC A10/MF A03

EPA-68-C0-0003
Battelle, Columbus, OH.
PB94-114634/REB 94-01 PC A04/MF A01
PB94-114683/REB 94-01 PC A04/MF A01
PB94-114790/REB 94-01 PC A03/MF A01
PB94-159928/REB 94-03 PC A06/MF A02
PB94-160629/REB 94-03 PC A04/MF A01
PB94-165362/REB 94-04 PC A04/MF A01
PB94-169836/REB 94-03 PC A02/MF A01
PB94-177771/REB 94-03 PC A03/MF A01
PB94-193323/REB 94-04 PC A05/MF A01

EPA-68-C0-0021
ManTech Environmental Technology, Inc., Corvallis, OR.
PB94-160538/REB 94-03 PC A02/MF A01

EPA-68-C0-0027
Environmental Engineering Consultants, Norwich, VT.
PB94-210606/REB 94-04 PC A03/MF A01

EPA-68-C0-0035
Science Applications International Corp., Washington, DC.
PB94-107752/REB 94-01 PC A99/MF A06

EPA-68-C0-0047
PRC Environmental Management, Inc., Chicago, IL.
PB93-213528/REB 94-01 PC A06/MF A02
PB94-124047/REB 94-01 PC A04/MF A01
PB94-160637/REB 94-03 PC A06/MF A02
PB94-160660/REB 94-03 PC A21/MF A04
PRC Environmental Management, Inc., Cincinnati, OH.
PB94-123858/REB 94-01 PC A19/MF A04
PRC Environmental Management, Inc., Rolling Meadows, IL.
PB94-100161/REB 94-01 PC A07/MF A02
PB94-120045/REB 94-01 PC A04/MF A01

EPA-68-C0-0048
Science Applications International Corp., Cincinnati, OH.
PB94-101805/REB 94-01 PC A02/MF A01
PB94-105434/REB 94-01 PC A04/MF A01
PB94-117470/REB 94-01 PC A05/MF A01
PB94-124674/REB 94-01 PC A04/MF A01
PB94-160603/REB 94-03 PC A03/MF A01
Science Applications International Corp., Hackensack, NJ.
PB94-117439/REB 94-01 PC A04/MF A01
Science Applications International Corp., San Diego, CA.
PB94-114949/REB 94-01 PC A02/MF A01

EPA-68-C0-0049
Agricultural Research Service, Raleigh, NC.
PB94-121837/REB 94-02 PC A14/MF A03
Lockheed Environmental Systems and Technologies Co., Las Vegas, NV.
PB94-105350/REB 94-01 PC A21/MF A04
PB94-182342/REB 94-03 PC A02/MF A01
Southeastern Center for Forest Economics Research, Research Triangle Park, NC.
PB94-152394/REB 94-03 PC A05/MF A01

EPA-68-C0-0058
ASci Corp., Duluth, MN.
PB94-114907/REB 94-01 PC A04/MF A01
PB94-123833/REB 94-01 PC A03/MF A01

EPA-68-C0-0080
Abt Associates, Inc., Cambridge, MA.
PB94-180767/REB 94-03 PC A03/MF A01

EPA-68-C1-0005
Science Applications International Corp., Narragansett, RI.
PB94-113057/REB 94-01 PC A02/MF A01
PB94-135183/REB 94-02 PC A03/MF A01
PB94-146305/REB 94-02 PC A02/MF A01
PB94-160561/REB 94-03 PC A07/MF A02
PB94-171659/REB 94-03 PC A07/MF A02
Versar, Inc., Columbia, MD.
PB94-135175/REB 94-02 PC A03/MF A01

EPA-68-C1-0024
Technology Applications, Inc., Athens, GA.
PB94-191111/REB 94-04 PC A02/MF A01

EPA-68-C1-0029
Midwest Research Inst., Mountain View, CA. California Operations.
PB94-182326/REB 94-03 PC A02/MF A01
PB94-191145/REB 94-04 PC A02/MF A01

EPA-68-C1-0030
Eastern Research Group, Inc., Lexington, MA.
PB94-105343/REB 94-01 PC A21/MF A04

EPA-68-C1-0040
Eastern Research Group, Inc., Lexington, MA.
PB94-144631/REB 94-02 PC A05/MF A01
Metcalf and Eddy, Inc., Wakefield, MA.
PB94-144623/REB 94-02 PC A09/MF A02
PB94-144649/REB 94-02 PC A06/MF A02

EPA-68-C1-0059
ICF Kaiser International, Inc., Fairfax, VA.
PB94-131778/REB 94-02 PC A04/MF A01

EPA-68-C1-0118
Eastern Research Group, Inc., Lexington, MA.
PB94-144656/REB 94-02 PC A07/MF A02

EPA-68-C2-0101
Science Applications International Corp., Falls Church, VA.
PB94-107919/REB 94-01 PC A03/MF A01

EPA-68-C2-0106
IT Corp., Cincinnati, OH.
PB94-144243/REB 94-02 PC A07/MF A02
PB94-146404/REB 94-02 PC A03/MF A01
PB94-146420/REB 94-02 PC A01/MF A01

EPA-68-C2-0139
Clement International Corp., Fairfax, VA.
PB94-179918/REB 94-03 PC A12/MF A03
PB94-179926/REB 94-03 PC A08/MF A02
PB94-179934/REB 94-03 PC A04/MF A01
PB94-179942/REB 94-03 PC A14/MF A03

EPA-68-C2-0144
Southwest Research Inst., San Antonio, TX. Automotive Products and Emissions Research Div.
PB94-142270/REB 94-02 PC A06/MF A02

EPA-68-C2-0148
Science Applications International Corp., Cincinnati, OH.
PB94-114667/REB 94-01 PC A04/MF A01
Science Applications International Corp., Fort Washington, PA.
PB94-159092/REB 94-03 PC A12/MF A03

EPA-68-C2-0150
Tetra Tech, Inc., Fairfax, VA.
PB94-107935/REB 94-01 PC A05/MF A02

EPA-68-C3-0302
Abt Associates, Inc., Cambridge, MA.
PB94-180767/REB 94-03 PC A03/MF A01

EPA-68-C3-0303
Tetra Tech, Inc., Fairfax, VA.
PB94-193893/REB 94-04 PC A12/MF A03
PB94-193901/REB 94-04 PC A10/MF A03

EPA-68-C3-0315
Eastern Research Group, Inc., Lexington, MA.
PB94-196896/REB 94-04 PC A11/MF A03

EPA-68-C3-0322
ManTech Environmental Technology, Inc., Ada, OK.
PB94-163516/REB 94-03 PC A03/MF A01
PB94-182359/REB 94-03 PC A02/MF A01

EPA-68-C3-0337
DynCorp Viar, Inc., Reston, VA. Environmental Services Div.
PB94-107059/REB 94-01 PC A07/MF A02

EPA-68-C3-0368
Miller (Wade) Associates, Inc., Arlington, VA.
PB94-179843/REB 94-03 PC A12/MF A03
PB94-179850/REB 94-03 PC A19/MF A04
PB94-179868/REB 94-03 PC A07/MF A02
PB94-179892/REB 94-03 PC A19/MF A04
PB94-179900/REB 94-03 PC A13/MF A03

EPA-68-C4-0019
ManTech Environmental Research Services Corp., Corvallis, OR. Environmental Research Lab.
PB94-210614/REB 94-04 PC A07/MF A02

EPA-68-C6-0006
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-141561/REB 94-02 PC A03/MF A01

EPA-68-C7-0008
Tetra Tech, Inc., Arlington, VA.
PB94-181591/REB 94-03 PC A15/MF A03

EPA-68-C8-0003
ICF, Inc., Fairfax, VA.
PB94-174778/REB 94-03 PC A24/MF A04
ICF Kaiser International, Inc., Fairfax, VA.
PB94-177789/REB 94-03 PC A20/MF A04

EPA-68-C8-0006
Agricultural Research Service, Raleigh, NC.
PB94-121837/REB 94-02 PC A14/MF A03
FTN Associates, Little Rock, AR.
PB94-136256/REB 94-02 PC A03/MF A01
ManTech Environmental Technology, Inc., Corvallis, OR.
PB94-107968/REB 94-01 PC A02/MF A01
PB94-159365/REB 94-03 PC A03/MF A01
PB94-160538/REB 94-03 PC A02/MF A01
PB94-169901/REB 94-03 PC A03/MF A01
PB94-182300/REB 94-03 PC A03/MF A01
PB94-182367/REB 94-03 PC A02/MF A01
ManTech Environmental Technology, Inc., Corvallis, OR. Environmental Research Lab.
PB94-135084/REB 94-02 PC A02/MF A01
PB94-141512/REB 94-02 PC A03/MF A01
PB94-159357/REB 94-03 PC A03/MF A01
PB94-191160/REB 94-04 PC A03/MF A01
PB94-191178/REB 94-04 PC A02/MF A01
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-130358/REB 94-02 PC A04/MF A01
Oregon State Univ., Corvallis. Dept. of Fisheries and Wildlife.
PB94-136389/REB 94-02 PC A07/MF A02
Southeastern Center for Forest Economics Research, Research Triangle Park, NC.
PB94-152394/REB 94-03 PC A05/MF A01

EPA-68-C8-0024
Sierra Research, Inc., Sacramento, CA.
PB94-108016/REB 94-01 PC A06/MF A02

EPA-68-C8-0025
ManTech Environmental Technology, Inc., Ada, OK.
PB94-163540/REB 94-03 PC A02/MF A01
PB94-182359/REB 94-03 PC A02/MF A01

EPA-68-C8-0048
Science Applications International Corp., Cincinnati, OH.
PB94-210630/REB 94-04 PC A03/MF A01
Science Applications International Corp., McLean, VA.
PB94-144250/REB 94-02 PC A03/MF A01

EPA-68-C8-0058
Dynamac Corp., Ada, OK.
PB94-107927/REB 94-01 PC A03/MF A01

EPA-68-C8-0062
Science Applications International Corp., Cincinnati, OH.
PB94-101797/REB 94-01 PC A02/MF A01
PB94-117470/REB 94-01 PC A05/MF A01
Science Applications International Corp., Falls Church, VA.
PB94-129798/REB 94-02 PC A09/MF A02
Science Applications International Corp., San Diego, CA.
PB94-117413/REB 94-01 PC A03/MF A01
PB94-117421/REB 94-01 PC A03/MF A01

EPA-68-C8-0066
Science Applications International Corp., Denver, CO.
PB94-178621/REB 94-03 PC A03/MF A01

PB94-178639/REB 94-03 PC A03/MF A01
PB94-178647/REB 94-03 PC A03/MF A01
PB94-178654/REB 94-03 PC A03/MF A01
PB94-178662/REB 94-03 PC A03/MF A01
PB94-178696/REB 94-03 PC A03/MF A01
PB94-178704/REB 94-03 PC A02/MF A01
PB94-178712/REB 94-03 PC A03/MF A01
PB94-178720/REB 94-03 PC A03/MF A01
PB94-182045/REB 94-03 PC A02/MF A01
PB94-182052/REB 94-03 PC A02/MF A01
PB94-182060/REB 94-03 PC A04/MF A01
PB94-182078/REB 94-03 PC A03/MF A01
PB94-182094/REB 94-03 PC A02/MF A01
PB94-182102/REB 94-03 PC A04/MF A01
PB94-182110/REB 94-03 PC A03/MF A01
PB94-182698/REB 94-03 PC A03/MF A01
PB94-182714/REB 94-03 PC A03/MF A01
PB94-182755/REB 94-03 PC A03/MF A01
PB94-182789/REB 94-03 PC A03/MF A01
PB94-182805/REB 94-03 PC A04/MF A01
Science Applications International Corp., Falls Church, VA.
PB94-125739/REB 94-02 PC A03/MF A01
Science Applications International Corp., Los Altos, CA.
PB94-178688/REB 94-03 PC A03/MF A01
Science Applications International Corp., Paramus, NJ.
PB94-182763/REB 94-03 PC A03/MF A01
PB94-182771/REB 94-03 PC A03/MF A01

EPA-68-C9-0011
Eastern Research Group, Inc., Lexington, MA.
PB94-115995/REB 94-01 PC A04/MF A01

EPA-68-C9-0013
Tetra Tech, Inc., Fairfax, VA.
PB94-218955/REB 94-04 PC A05/MF A01

EPA-68-C9-0019
DynCorp Viar, Inc., Reston, VA. Environmental Services Div.
PB94-121654/REB 94-01 PC A99/MF E08
PB94-166311/REB 94-03 PC A17/MF A04

EPA-68-C9-0033
Focus Environmental, Inc., Knoxville, TN.
PB94-135118/REB 94-02 PC A03/MF A01
PB94-135126/REB 94-02 PC A03/MF A01
Foster Wheeler Corp., Livingston, NJ.
PB94-112810/REB 94-01 PC A03/MF A01
Foster Wheeler Enviresponse, Inc., Edison, NJ.
PB94-214681/REB 94-04 PC A03/MF A01

EPA-68-C9-0036
Cincinnati Univ., OH. Dept. of Civil and Environmental Engineering.
PB94-113750/REB 94-01 PC A03/MF A01
International Technology Corp., Cincinnati, OH.
PB94-146271/REB 94-02 PC A03/MF A01
IT Corp., Cincinnati, OH.
PB94-124039/REB 94-01 PC A04/MF A01
PB94-136108/REB 94-02 PC A01/MF A01
PB94-140613/REB 94-02 PC A04/MF A01

EPA-68-C9-0037
Foster Wheeler Energy Corp., Livingston, NJ.
PB94-112828/REB 94-01 PC A03/MF A01

EPA-68-C9-0038
Acurex Environmental Corp., Jefferson, AR.
PB94-112935/REB 94-01 PC A03/MF A01
PB94-114659/REB 94-01 PC A06/MF A02
PB94-162716/REB 94-03 PC A03/MF A01
PB94-197019/REB 94-04 PC A02/MF A02

EPA-68-C00082/C
National Research Council, Washington, DC.
PB94-174018/REB 94-03 PC A06/MF A02

EPA-68-CO-0003
Battelle Columbus Div., OH.
PB94-160553/REB 94-03 PC A04/MF A01
Battelle, Columbus, OH.
PB94-136298/REB 94-02 PC A04/MF A01
PB94-144508/REB 94-03 PC A05/MF A01
PB94-161130/REB 94-03 PC A03/MF A01
PB94-165214/REB 94-03 PC A03/MF A01
PB94-165321/REB 94-03 PC A04/MF A01
Cincinnati Univ., OH. Dept. of Environmental Health.
PB94-157336/REB 94-03 PC A03/MF A01
Hazen Research, Inc., Golden, CO.
PB94-158805/REB 94-03 PC A02/MF A01

EPA-68-CO-0019
AQUA TERRA Consultants, Decatur, GA.
PB94-168374/REB 94-03 PC A03/MF A01
AQUA TERRA Consultants, Mountain View, CA.
PB94-189420/REB 94-04 PC A16/MF A03

EPA-68-CO-0027
Environmental Engineering Consultants, Norwich, VT.
PB94-210432/REB 94-04 Standing Order

EPA-68-CO-0047
PRC Environmental Management, Inc., Chicago, IL.
PB94-130325/REB 94-02 PC A04/MF A01
PB94-164811/REB 94-03 PC A03/MF A01
PRC Environmental Management, Inc., Cincinnati, OH.
PB94-189438/REB 94-04 PC A05/MF A01

EPA-68-CO-0048
Science Applications International Corp., Cincinnati, OH.
PB94-136264/REB 94-02 PC A07/MF A02
PB94-190469/REB 94-04 PC A03/MF A01
PB94-190477/REB 94-04 PC A03/MF A01
Science Applications International Corp., Paramus, NJ.
PB94-130275/REB 94-02 PC A04/MF A01

EPA-68-CO-0049
Lockheed Engineering and Sciences Co., Las Vegas, NV.
PB93-218337/REB 94-02 PC A06/MF A02
Lockheed Environmental Systems and Technologies Co., Las Vegas, NV.
PB94-100153/REB 94-01 PC A06/MF A02
PB94-191129/REB 94-04 PC A02/MF A01
Oak Ridge National Lab., TN.
PB94-170032/REB 94-03 PC A02/MF A01

EPA-68-CO-0051
Huxley Coll. of Environmental Studies, Bellingham, WA.
PB94-146297/REB 94-02 PC A03/MF A01
State Univ. of New York at Stony Brook. Dept. of Ecology and Evolution.
PB94-162658/REB 94-03 PC A03/MF A01

EPA-68-CO-0094
Energy and Environmental Research Corp., Irvine, CA.
PB94-214772/REB 94-04 PC A11/MF A03

EPA-68-D0-0007
Battelle, Columbus, OH.
PB94-105376/REB 94-01 PC A04/MF A01
PB94-157401/REB 94-03 PC A02/MF A01
PB94-159902/REB 94-03 PC A04/MF A01

EPA-68-D0-0093
American Management Systems, Inc., Arlington, VA.
PB94-114915/REB 94-01 PC A06/MF A02

EPA-68-D0-0095
National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div.
PB94-122595/REB 94-01 PC A01/MF A01
PB94-122603/REB 94-01 PC A02/MF A01

EPA-68-D0-0097
Infiltec, Falls Church, VA.
PB94-117363/REB 94-01 PC A06/MF A02
Pennsylvania State Univ., University Park. Dept. of Architectural Engineering.
PB94-190972/REB 94-04 PC A03/MF A01

EPA-68-D0-0101
ICF Kaiser International, Inc., Fairfax, VA.
PB94-177789/REB 94-03 PC A20/MF A04

EPA-68-D0-0106
Battelle Memorial Inst., Columbus, OH.
PB94-119955/REB 94-01 PC A02/MF A01
IIT Research Inst., Chicago, IL.
PB94-120003/REB 94-01 PC A03/MF A01
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-157393/REB 94-03 PC A03/MF A01
PB94-190592/REB 94-04 PC A03/MF A01
PB94-197456/REB 94-04 PC A03/MF A01

EPA-68-D0-0107
Animal Nutrition, Inc., Breese, IL.
PB94-125655/REB 94-02 PC A99/MF E11

EPA-68-D0-0120
Pechan (E.H.) and Associates, Inc., Durham, NC.
PB94-189255/REB 94-04 PC A03/MF A01

EPA-68-D0-0121
TRC Environmental Corp., Chapel Hill, NC.
PB94-156197/REB 94-03 PC A05/MF A01
PB94-156718/REB 94-03 PC A07/MF A02
PB94-158425/REB 94-03 PC A06/MF A02

EPA-68-D0-0122
Science Applications International Corp., Denver, CO.
PB94-174760/REB 94-03 PC A03/MF A01

EPA-68-D0-0137
Midwest Research Inst., Kansas City, MO.
PB94-152238/REB 94-02 PC A05/MF A02

EPA-68-D0-0141
Acurex Corp., Research Triangle Park, NC.
PB94-143799/REB 94-02 PC A02/MF A01
PB94-190840/REB 94-04 PC A03/MF A01
PB94-190857/REB 94-04 PC A02/MF A01
Acurex Environmental Corp., Research Triangle Park, NC.
PB94-139474/REB 94-02 PC A02/MF A01

EPA-68-D0-0177
VIGYAN, Inc., Falls Church, VA.
PB94-114402/REB 94-01 PC A07/MF A02

EPA-68-D1-0008
International Fuel Cells Corp., South Windsor, CT.
PB94-107950/REB 94-01 PC A02/MF A01

EPA-68-D1-0009
Research Triangle Inst., Research Triangle Park, NC.
PB94-130424/REB 94-02 PC A05/MF A01
PB94-170297/REB 94-03 PC A04/MF A01
PB94-176948/REB 94-03 PC A04/MF A01
Research Triangle Inst., Research Triangle Park, NC. Center for Environmental Measurements and Quality Assurance.
PB94-121738/REB 94-01 PC A03/MF A01
PB94-141165/REB 94-02 PC A18/MF A04

EPA-68-D1-0010
Radian Corp., Research Triangle Park, NC.
PB94-155884/REB 94-03 PC A19/MF A04
PB94-158680/REB 94-03 PC A03/MF A01
PB94-176617/REB 94-03 PC A03/MF A01
PB94-176633/REB 94-03 PC A03/MF A01
PB94-176641/REB 94-03 PC A03/MF A01
PB94-182227/REB 94-03 PC A03/MF A01
PB94-197480/REB 94-04 PC A01/MF A01
PB94-197498/REB 94-04 PC A02/MF A01
PB94-197506/REB 94-04 PC A03/MF A01
PB94-197514/REB 94-04 PC A02/MF A01

EPA-68-D1-0031
Radian Corp., Austin, TX.
PB94-169885/REB 94-03 PC A03/MF A01
PB94-195070/REB 94-04 PC A06/MF A02
Radian Corp., Research Triangle Park, NC.
PB94-114782/REB 94-01 PC A04/MF A01
PB94-192721/REB 94-04 PC A03/MF A01

EPA-68-D1-0073
VIGYAN, Inc., Falls Church, VA.
PB94-120334/REB 94-01 PC A03/MF A01

EPA-68-D1-0115
Midwest Research Inst., Cary, NC.
PB94-120235/REB 94-01 PC A11/MF A03
PB94-126877/REB 94-02 PC A08/MF A02
PB94-134152/REB 94-02 PC A20/MF A04
PB94-134160/REB 94-02 PC A16/MF A03
PB94-134319/REB 94-02 PC A08/MF A02
PB94-156791/REB 94-03 PC A10/MF A03
PB94-206257/REB 94-04 PC A09/MF A03

EPA-68-D1-0117
Alpha-Gamma Technologies, Raleigh, NC.
PB94-120219/REB 94-01 PC A11/MF A03
Radian Corp., Research Triangle Park, NC.
PB94-184165/REB 94-03 PC A23/MF A04

EPA-68-D1-0119
EC/R, Inc., Durham, NC.
PB94-175932/REB 94-03 PC A03/MF A01

EPA-68-D1-0124
Mitchell Systems Corp., Arlington, VA.
PB94-132198/REB 94-02 PC A10/MF A03

EPA-68-D1-0143
Research Triangle Inst., Research Triangle Park, NC. Center for Economics Research.
PB94-213543/REB 94-04 PC A09/MF A02

EPA-68-D1-0146
Capone (Ronald L.) and Associates, Arlington, VA.
PB94-182276/REB 94-03 PC A02/MF A01
Pechan (E.H.) and Associates, Inc., Durham, NC.
PB94-189651/REB 94-04 PC A01/MF A01
PB94-213519/REB 94-04 PC A04/MF A01

EPA-68-D1-0148
Acurex Environmental Corp., Research Triangle Park, NC.
PB94-143773/REB 94-02 PC A02/MF A01
Environmental Health Research and Testing, Inc., Research Triangle Park, NC.
PB94-141447/REB 94-02 PC A02/MF A01

EPA-68-D1-1115
Midwest Research Inst., Cary, NC.
PB94-181864/REB 94-03 PC A10/MF A03

EPA-68-D2-0056
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB94-137148/REB 94-02 PC A03/MF A01
PB94-137163/REB 94-02 PC A03/MF A01
PB94-141603/REB 94-02 PC A03/MF A01
PB94-202124/REB 94-04 PC A02/MF A01
PB94-202140/REB 94-04 PC A03/MF A01
North Carolina Univ. at Chapel Hill. Dept. of Psychology.
PB94-197159/REB 94-04 PC A03/MF A01

EPA-68-D2-0058
Environmental Quality Management, Inc., Cincinnati, OH.
PB94-170388/REB 94-03 PC **A14**/MF **A03**
PB94-174174/REB 94-03 PC **A02**/MF **A01**

EPA-68-D2-0062
Southern Research Inst., Birmingham, AL.
PB94-130317/REB 94-02 PC **A06**/MF **A02**
Southern Research Inst., Durham, NC.
PB94-145455/REB 94-02 PC **A06**/MF **A02**
Southern Research Inst., Durham, NC. Environmental Studies Div.
PB94-112984/REB 94-01 PC **A03**/MF **A01**

EPA-68-D2-0063
Acurex Corp., Research Triangle Park, NC.
PB94-112893/REB 94-01 PC **A03**/MF **A01**
Acurex Environmental Corp., Research Triangle Park, NC.
PB94-132180/REB 94-02 PC **A23**/MF **A04**
PB94-203775/REB 94-04 PC **A02**/MF **A01**

EPA-68-D2-0148
Ascension Technology, Inc., Lincoln Center, MA.
PB94-155322/REB 94-03 PC **A02**/MF **A01**

EPA-68-D2-0159
Midwest Research Inst., Cary, NC.
PB94-118080/REB 94-01 PC **A14**/MF **A03**
PB94-118379/REB 94-01 PC **A07**/MF **A02**
PB94-173093/REB 94-03 PC **A14**/MF **A03**
PB94-173101/REB 94-03 PC **A14**/MF **A03**

EPA-68-D2-0175
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
PB94-109030/REB 94-01 PC **A08**/MF **A02**

EPA-68-D2-0181
TRC Environmental Corp., Chapel Hill, NC.
PB94-112901/REB 94-01 PC **A03**/MF **A01**
PB94-152220/REB 94-02 PC **A10**/MF **A03**
PB94-162708/REB 94-03 PC **A03**/MF **A01**

EPA-68-D2-5600
North Carolina Univ. at Chapel Hill. Curriculum in Neurobiology.
PB94-197183/REB 94-04 PC **A03**/MF **A01**

EPA-68-D3-0029
TRC Environmental Corp., Chapel Hill, NC.
PB94-158177/REB 94-03 PC **A05**/MF **A01**

EPA-68-D3-0031
Radian Corp., Research Triangle Park, NC.
PB94-139508/REB 94-02 PC **A02**/MF **A01**

EPA-68-D3-0032
Pacific Environmental Services, Inc., Research Triangle Park, NC.
PB94-206406/REB 94-04 PC **A05**/MF **A02**

EPA-68-D8-0002
IIT Research Inst., Chicago, IL.
PB94-120003/REB 94-01 PC **A03**/MF **A01**

EPA-68-D8-0098
Virginia-Maryland Regional Coll. of Veterinary Medicine, Blacksburg, VA.
PB94-137247/REB 94-02 PC **A02**/MF **A01**

EPA-68-D9-0054/71
Radian Corp., Research Triangle Park, NC.
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PB94-964037/REB 94-04 Standing Order

EPA/ROD/R04-93/136
Superfund Record of Decision (EPA Region 4): T, H, Agriculture and Nutrition Site, Operable Unit 1, Albany, GA., May 1993.
PB94-964017/REB 94-04 Standing Order

EPA/ROD/R04-93/137
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 17, Oak Ridge, TN., October 1992.
PB94-964023/REB 94-04 Standing Order

EPA/ROD/R04-93/138
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 8, Oak Ridge, TN., October 1992.
PB94-964022/REB 94-04 Standing Order

EPA/ROD/R04-93/139
Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

EPA/ROD/R04-93/140
Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

EPA/ROD/R04-93/141
Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

EPA/ROD/R04-93/142
Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

EPA/ROD/R04-93/143
Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

EPA/ROD/R04-93/145
Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

EPA/ROD/R04-93/146
Superfund Record of Decision (EPA Region 4): Peak Oil/ Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

EPA/ROD/R04-93/147
Superfund Record of Decision (EPA Region 4): Peak Oil/ Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

EPA/ROD/R04-93/149
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

EPA/ROD/R04-93/150
Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

EPA/ROD/R04-93/151
Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

EPA/ROD/R04-93/152
Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

EPA/ROD/R04-93/153
Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
PB94-964046/REB 94-04 Standing Order

EPA/ROD/R04-93/154
Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

EPA/ROD/R04-93/155
Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

EPA/ROD/R04-93/156
Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964036/REB 94-04 Standing Order

EPA/ROD/R04-93/157
Superfund Record of Decision (EPA Region 4): Helena Chemical Landfill, Fairfax, SC., September 1993.
PB94-964014/REB 94-04 Standing Order

EPA/ROD/R04-93/158
Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

EPA/ROD/R04-93/160
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

EPA/ROD/R04-93/161
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 3, NC., September 1993.
PB94-964016/REB 94-04 Standing Order

EPA/ROD/R04-93/162
Superfund Record of Decision (EPA Region 4): USMC Camp Lejeune, Operable Unit 4, NC., September 1993.
PB94-964015/REB 94-04 Standing Order

EPA/ROD/R04-93/163
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 6, SC., September 1993.
PB94-964020/REB 94-04 Standing Order

EPA/ROD/R04-93/164
Superfund Record of Decision (EPA Region 4): Savannah River (USDOE), Operable Unit 7, SC., September 1993.
PB94-964019/REB 94-04 Standing Order

EPA/ROD/R04-93/165
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant, Northwest Plume, Paducah, KY., July 1993.
PB94-964018/REB 94-04 Standing Order

EPA/ROD/R04-93/166
Superfund Record of Decision (EPA Region 4): USDOE Oak Ridge Reservation, Operable Unit 16, Oak Ridge, TN., September 1993.
PB94-964021/REB 94-04 Standing Order

EPA/ROD/R04-94/167
Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Company Site, Pontiac, SC. (Interim Remedial Action), December 1993.
PB94-964001/REB 94-04 Standing Order

EPA/ROD/R04-94/169
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant Site, Paducah, KY., March 1994.
PB94-964003/REB 94-04 Standing Order

EPA/ROD/R04-94/172
Superfund Record of Decision (EPA Region 4): Piper Aircraft Corporation Site, Vero Beach, FL., December 1993.
PB94-964006/REB 94-04 Standing Order

EPA/ROD/R04-94/174
Superfund Record of Decision (EPA Region 4): National Starch and Chemical Company Site (Operable Unit 3), Salisbury, NC., October 1993.
PB94-964008/REB 94-04 Standing Order

EPA/ROD/R04-94/175
Superfund Record of Decision (Region 4): General Tire Landfill Site, Mayfield, KY., October 1993.
PB94-964009/REB 94-04 Standing Order

EPA/ROD/R04-94/178
Superfund Record of Decision (EPA Region 4): Sangamo Weston/Twelvemile Creek/Lake Hartwell Site (Operable Unit 2), Pickens, SC., June 1994.
PB94-964012/REB 94-04 Standing Order

EPA/ROD/R04-94/179
Superfund Record of Decision (EPA Region 4): Caldwell Lace Leather Site, Auburn, KY., June 1994.
PB94-964013/REB 94-04 Standing Order

EPA/ROD/R04-94/180
Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

EPA/ROD/R04-94/181
Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

EPA/ROD/R04-94/183
Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

EPA/ROD/R04-94/184
Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

EPA/ROD/R04-94/185
Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

EPA/ROD/R04-94/186
Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, FL., September 1994.
PB94-964057/REB 94-04 Standing Order

EPA/ROD/R04-94/187
Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

EPA/ROD/R05-93/224
Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

EPA/ROD/R05-93/226
Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

EPA/ROD/R05-93/227
Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

EPA/ROD/R05-93/228
Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

EPA/ROD/R05-93/229
Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

EPA/ROD/R05-93/230
Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

EPA/ROD/R05-93/231
Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

EPA/ROD/R05-93/232
Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (SWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

EPA/ROD/R05-93/233
Superfund Record of Decision (EPA Region 5): Duell-Gardner Landfill Site, Muskegon County, MI., September 1993.
PB94-963916/REB 94-04 Standing Order

EPA/ROD/R05-93/235
Superfund Record of Decision (EPA Region 5): Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

EPA/ROD/R05-93/236
Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

EPA/ROD/R05-93/237
Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemical, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

EPA/ROD/R05-93/238
Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

EPA/ROD/R05-93/239
Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

EPA/ROD/R05-93/240
Superfund Record of Decision (EPA Region 5): Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

EPA/ROD/R05-93/241
Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

EPA/ROD/R05-93/242
Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

EPA/ROD/R05-93/243
Superfund Record of Decision (EPA Region 5): Ott/Story/ Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

EPA/ROD/R05-93/244
Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

EPA/ROD/R05-93/245
Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

EPA/ROD/R05-93/246
Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

EPA/ROD/R05-94/247
Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

EPA/ROD/R05-94/248
Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

EPA/ROD/R05-94/249
Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
PB94-964132/REB 94-04 Standing Order

EPA/ROD/R05-94/250
Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

EPA/ROD/R05-94/251
Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

EPA/ROD/R05-94/252
Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

EPA/ROD/R05-94/253
Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

EPA/ROD/R05-94/254
Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
PB94-964128/REB 94-04 Standing Order

EPA/ROD/R05-94/256
Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

EPA/ROD/R05-94/257
Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
PB94-964131/REB 94-04 Standing Order

EPA/ROD/R05-94/258
Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
PB94-964133/REB 94-04 Standing Order

EPA/ROD/R06-93/078
Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
PB94-964209/REB 94-04 Standing Order

EPA/ROD/R06-93/079
Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
PB94-964205/REB 94-04 Standing Order

EPA/ROD/R06-93/080
Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
PB94-964201/REB 94-04 Standing Order

EPA/ROD/R06-93/081
Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
PB94-964207/REB 94-04 Standing Order

EPA/ROD/R06-93/082
Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
PB94-964202/REB 94-04 Standing Order

EPA/ROD/R06-93/083
Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
PB94-964206/REB 94-04 Standing Order

EPA/ROD/R06-93/084
Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
PB94-964203/REB 94-04 Standing Order

EPA/ROD/R06-93/085
Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
PB94-964204/REB 94-04 Standing Order

EPA/ROD/R06-93/086
Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
PB94-964208/REB 94-04 Standing Order

EPA/ROD/R07-93/062
Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
PB94-964306/REB 94-04 Standing Order

EPA/ROD/R07-93/063
Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
PB94-964303/REB 94-04 Standing Order

EPA/ROD/R07-93/064
Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
PB94-964309/REB 94-04 Standing Order

EPA/ROD/R07-93/065
Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
PB94-964310/REB 94-04 Standing Order

EPA/ROD/R07-93/066
Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
PB94-964301/REB 94-04 Standing Order

EPA/ROD/R07-93/067
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
PB94-964302/REB 94-04 Standing Order

EPA/ROD/R07-93/068
Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
PB94-964307/REB 94-04 Standing Order

EPA/ROD/R07-93/069
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
PB94-964311/REB 94-04 Standing Order

EPA/ROD/R07-93/070
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
PB94-964308/REB 94-04 Standing Order

EPA/ROD/R07-93/071
Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
PB94-964304/REB 94-04 Standing Order

EPA/ROD/R07-93/072
Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
PB94-964305/REB 94-04 Standing Order

EPA/ROD/R07-94/073
Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
PB94-964312/REB 94-04 Standing Order

EPA/ROD/R08-93/068
Superfund Record of Decision (EPA Region 8): Eagle Mine Site, Operable Unit 1, Eagle County, CO., March 1993.
PB94-964416/REB 94-04 Standing Order

EPA/ROD/R08-93/069
Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
PB94-964405/REB 94-04 Standing Order

EPA/ROD/R08-93/070
Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
PB94-964408/REB 94-04 Standing Order

EPA/ROD/R08-93/071
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 2, Commerce City, CO., June 1993.
PB94-964413/REB 94-04 Standing Order

EPA/ROD/R08-93/072
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Units 3 and 6, Commerce City, CO., June 1993.
PB94-964415/REB 94-04 Standing Order

EPA/ROD/R08-93/073
Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
PB94-964406/REB 94-04 Standing Order

EPA/ROD/R08-93/074
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
PB94-964412/REB 94-04 Standing Order

EPA/ROD/R08-93/076
Superfund Record of Decision (EPA Region 8): Chemical Sales Company Site, Operable Unit 4, Commerce City, CO., December 1992.
PB94-964414/REB 94-04 Standing Order

EPA/ROD/R08-93/077
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
PB94-964409/REB 94-04 Standing Order

EPA/ROD/R08-93/078
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
PB94-964410/REB 94-04 Standing Order

EPA/ROD/R08-93/079
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
PB94-964411/REB 94-04 Standing Order

EPA/ROD/R08-94/081
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
PB94-964402/REB 94-04 Standing Order

EPA/ROD/R08-94/084
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 4, UT., June 1994.
PB94-964417/REB 94-04 Standing Order

EPA/ROD/R09-93/087
Superfund Record of Decision (EPA Region 9): Sacramento Army Depot, Burn Pits Operable Unit, Sacramento, CA., February 1993.
PB94-964521/REB 94-04 Standing Order

EPA/ROD/R09-93/088
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1 through 4, Whittier Narrows Operable Unit, Los Angeles County, CA., March 1993.
PB94-964524/REB 94-04 Standing Order

EPA/ROD/R09-93/089
Superfund Record of Decision (EPA Region 9): Sharpe Army Depot, Operable Unit 1, Lathrop, CA., January 1993.
PB94-964518/REB 94-04 Standing Order

EPA/ROD/R09-93/090
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 2, Phoenix, AZ., December 1992.
PB94-964514/REB 94-04 Standing Order

EPA/ROD/R09-93/091
Superfund Record of Decision (EPA Region 9): Liquid Gold Oil Corporation, Richmond, CA., June 1993.
PB94-964517/REB 94-04 Standing Order

EPA/ROD/R09-93/092
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 2, Los Angeles County, CA., June 1993.
PB94-964527/REB 94-04 Standing Order

EPA/ROD/R09-93/093
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 3, Los Angeles County, CA., June 1993.
PB94-964523/REB 94-04 Standing Order

EPA/ROD/R09-93/094
Superfund Record of Decision (EPA Region 9): Lorentz Barrel and Drum Site, Operable Unit 1, San Jose, CA., August 1993.
PB94-964522/REB 94-04 Standing Order

EPA/ROD/R09-93/095
Superfund Record of Decision (EPA Region 9): McColl Site, Source Operable Unit, Fullerton, CA., June 1993.
PB94-964520/REB 94-04 Standing Order

EPA/ROD/R09-93/096
Superfund Record of Decision (EPA Region 9): Applied Materials, Inc., Santa Clara, CA., August 1993.
PB94-964528/REB 94-04 Standing Order

EPA/ROD/R09-93/097
Superfund Record of Decision (EPA Region 9): Newmark Groundwater Contamination Site, San Bernardino, CA., August 1993.
PB94-964516/REB 94-04 Standing Order

EPA/ROD/R09-93/099
Superfund Record of Decision (EPA Region 9): Fresno Sanitary Landfill Site, Fresno, CA., September 1993.
PB94-964519/REB 94-04 Standing Order

EPA/ROD/R09-93/100
Superfund Record of Decision (EPA Region 9): Hexcel, Livermore, CA., September 1993.
PB94-964510/REB 94-04 Standing Order

EPA/ROD/R09-93/101
Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Shasta County, CA., September 1993.
PB94-964511/REB 94-04 Standing Order

EPA/ROD/R09-93/102
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1-4, Suburban Water Systems/Bartolo Well Field Operable Unit, (Amendment), CA., September 1993.
PB94-964525/REB 94-04 Standing Order

EPA/ROD/R09-93/103
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot, Operable Unit 1, Tracy, CA., August 1993.
PB94-964515/REB 94-04 Standing Order

EPA/ROD/R09-93/104
Superfund Record of Decision (EPA Region 9): McClellan Air Force Base, Operable Unit B1, CA., September 1993.
PB94-964526/REB 94-04 Standing Order

EPA/ROD/R09-94/105
Superfund Record of Decision (EPA Region 9): Indian Bend Wash Site, Tempe, AZ., September 1993.
PB94-964501/REB 94-04 Standing Order

EPA/ROD/R09-94/106
Superfund Record of Decision (EPA Region 9): Baldwin Park San Gabriel Valley Area Site, Los Angeles County, CA., March 1994.
PB94-964502/REB 94-04 Standing Order

EPA/ROD/R09-94/107
Superfund Record of Decision (EPA Region 9): Aircraft Control and Warning Site, Mather Air Force Base, CA., December 1993.
PB94-964503/REB 94-04 Standing Order

EPA/ROD/R09-94/110
Superfund Record of Decision (EPA Region 9): Castle Air Force Base (Operable Unit 2), Merced County, CA., November 1993.
PB94-964506/REB 94-04 Standing Order

EPA/ROD/R09-94/111
Superfund Record of Decision (EPA Region 9): Southern California Edison, Visalia Pole Yard, Visalia, CA., June 1994.
PB94-964507/REB 94-04 Standing Order

EPA/ROD/R09-94/112
Superfund Record of Decision (EPA Region 9): Riverbank Army Ammunition Plant Site, Riverbank, CA., March 1994.
PB94-964508/REB 94-04 Standing Order

EPA/ROD/R09-94/113
Superfund Record of Decision (EPA Region 9): Norton Air Force Base, San Bernardino, CA., November 1993.
PB94-964509/REB 94-04 Standing Order

EPA/ROD/R09-94/114
Superfund Record of Decision (EPA Region 9): Waste Disposal, Inc., Santa Fe Springs, CA., December 1993.
PB94-964512/REB 94-04 Standing Order

EPA/ROD/R09-94/115
Superfund Record of Decision (EPA Region 9): George Air Force Base, Operable Unit 1, San Bernardino County, CA., March 1994.
PB94-964513/REB 94-04 Standing Order

EPA/ROD/R09-94/116
Superfund Record of Decision (EPA Region 9): Motorola 52nd Street, Operable Unit 2, Phoenix, AZ., July 1994.
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EPA/600/J-94/065
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PB94-143765/REB 94-02 PC **A03**/MF **A01**

EPA/600/J-94/066
Ki-ras Oncogene Mutations in Tumors and DNA Adducts Formed by Benz(i)acearthrylene and Benzo(a)pyrene in the Lungs of Strain A/J Mice.
PB94-139557/REB 94-02 PC **A02**/MF **A01**

EPA/600/J-94/067
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EPA/600/J-94/068
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EPA/600/J-94/070
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PB94-141587/REB 94-02 PC **A03**/MF **A01**

EPA/600/J-94/071
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EPA/600/J-94/072
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PB94-141413/REB 94-02 PC **A02**/MF **A01**

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PB94-141421/REB 94-02 PC **A02**/MF **A01**

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EPA/600/J-94/076
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PB94-141447/REB 94-02 PC **A02**/MF **A01**

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PB94-141454/REB 94-02 PC **A02**/MF **A01**

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PB94-163862/REB 94-03 PC **A02**/MF **A01**

EPA/600/J-94/208
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PB94-163870/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/209
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PB94-163888/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/210
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PB94-163896/REB 94-03 PC **A03**/MF **A01**

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PB94-163904/REB 94-03 PC **A03**/MF **A01**

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PB94-163912/REB 94-03 PC **A02**/MF **A01**

EPA/600/J-94/213
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PB94-163920/REB 94-03 PC **A03**/MF **A01**

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PB94-163946/REB 94-03 PC **A03**/MF **A01**

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PB94-163953/REB 94-03 PC **A02**/MF **A01**

EPA/600/J-94/218
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PB94-163961/REB 94-03 PC **A02**/MF **A01**

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PB94-169943/REB 94-03 PC **A02**/MF **A01**

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Use of the Aquatic Oligochaete 'Lumbriculus variegatus' for Assessing the Toxicity and Bioaccumulation of Sediment-Associated Contaminants.
PB94-177730/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/246
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PB94-177722/REB 94-03 PC **A02**/MF **A01**

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PB94-177714/REB 94-03 PC **A03**/MF **A01**

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PB94-176203/REB 94-03 PC **A03**/MF **A01**

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PB94-176187/REB 94-03 PC **A01**/MF **A01**

EPA/600/J-94/255
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PB94-176146/REB 94-03 PC **A03**/MF **A01**

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PB94-176195/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/259
Prediction of Bioaccumulation of Metals from Contaminated Sediments by the Oligochaete, 'Lumbriculus variegatus'.
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Update of the U.S. Environmental Protection Agency's SITE Emerging Technology Program, 1993.
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Comparison of Chemiluminescence and Ultraviolet Ozone Monitor Responses in the Presence of Humidity and Photochemical Pollutants.
PB94-182672/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/262
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PB94-182664/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/263
Effects of Food Density and Temperature on Feeding and Growth of Young Inland Silversides ('Menidia beryllina').
PB94-182656/REB 94-03 PC **A03**/MF **A01**

EPA/600/J-94/264
Effects of Dietary Fatty Acid Enrichment on Survival, Growth, and Salinity-Stress-Test Performance of Inland Silversides.
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U.S. EPA Monitoring and Measurement Technologies Program (MMTP). Part 1 and Part 2.
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Multispectral Identification of Chlorine Dioxide Disinfection Byproducts in Drinking Water.
PB94-182615/REB 94-03 PC **A02**/MF **A01**

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PB94-182359/REB 94-03 PC **A02**/MF **A01**

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PB94-182367/REB 94-03 PC **A02**/MF **A01**

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Susceptibility of the Convergent Lady Beetle ('Coleoptera: Coccinellidae') to Four Entomogenous Fungi.
PB94-182375/REB 94-03 PC **A01**/MF **A01**

EPA/600/J-94/274
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PB94-191004/REB 94-04 PC **A02**/MF **A01**

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Calyptospora funduli (Apicomplexa, Calyptosporidae) in the Liver of the Gulf Toadfish, 'Opsanus beta'.
PB94-191012/REB 94-04 PC **A02**/MF **A01**

EPA/600/J-94/276
New Eye Disease in Pen-Reared Chinook Salmon Caused by Metacestodes of 'Gilquinia squali' (Trypanorhyncha).
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Characterization of a New Thermophilic Sulfate-Reducing Bacterium 'Thermodesulfovibrio yellowstonii' gen. nov. and sp. nov.: Its Phylogenetic Relationship to 'Thermodesulfobacterium commune' and Their Origins Deep within the Bacterial Domain.
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Characterization of 'Desulfomicrobium escambium' sp. nov. and Proposal to Assign 'Desulfovibrio desulfuricans' Strain Norway 4 to the Genus 'Desulfomicrobium'.
PB94-191046/REB 94-04 PC **A02**/MF **A01**

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Field-Scale Testing of a Two-Stage Bioreactor for Removal of Creosote and Pentachlorophenol from Ground Water: Chemical and Biological Assessment.
PB94-191053/REB 94-04 PC **A02**/MF **A01**

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Field Scale Testing of a Hyperfiltration Unit for Removal of Creosote and Pentachlorophenol from Ground Water: Chemical and Biological Assessment.
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EPA/600/J-94/282
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PB94-191194/REB 94-04 PC **A02**/MF **A01**

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PB94-190493/REB 94-04 PC **A01**/MF **A01**

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Isolation of Dissolved Organic Matter from the Suwannee River Using Reverse Osmosis.
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Emissions of Organic Hazardous Air Pollutants from the Combustion of Pulverized Coal in a Small-Scale Combustor.
PB94-190519/REB 94-04 PC **A03**/MF **A01**

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Chemical Characteristics and Temporal Trends in Eight Streams of the Catskill Mountains, New York. (Revised).
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Ecological Structure among Migrant and Resident Seabirds of the Scotia-Weddell Confluence Region.
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Bacterial Flux from Chaparral into the Atmosphere in Mid-Summer at a High Desert Location.
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Effects of 7,12-Dimethylbenz(a)anthracene on Immune Function and Mixed-Function Oxygenase Activity in the European Starling.
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Two-Dimensional Modeling of Aquifer Remediation Influenced by Sorption Nonequilibrium and Hydraulic Conductivity Heterogeneity.
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IAPCS: A Computer Model That Evaluates Pollution Control Systems for Utility Boilers.
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PC-Based MIE Scattering Program for Theoretical Investigations of the Optical Properties of Atmospheric Aerosols as a Function of Composition and Relative Humidity.
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Comparison of Sulfur Measurements from a Regional Fine Particle Network with Concurrent Acid Modes Network Results.
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Transport, Radiative, and Dynamical Effects of the Antarctic Ozone Hole: A GFDL 'SKYHI' Model Experiment.
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Vechicle-Related Hydrocarbon Source Compositions from Ambient Data: The GRACE/SAFER Method.
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Dependencies and Sensitivity of Tropospheric Oxidants to Precursor Concentrations over the Northeast United States: A Model Study.
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Influence of Oxygenated Fuels on the Emissions from Three Pre-1985 Light-Duty Passenger Vehicles.
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Competitive Adsorption of VOCs and BOM: The Role of Molecular Oxygen.
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Spermatid Micronucleus Analyses of Trichloroethylene and Chloral Hydrate Effects in Mice.
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Chemical Characterization and Disposition Studies with 1,2,7,8-Tetrabromodibenzofuran in the Rat.
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Comparison of Intracranial Infusions of Colchicine and Ibotenic Acid as Models of Neurodegeneration in the Basal Forebrain. Research Report.
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Physiologically-Based Pharmacokinetic Modeling.
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Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) on Humoral Immunity and Lymphocyte Subpopulations: Differences between Mice and Rats.
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Cognitive and Neuroanatomical Effects of Triethyltin in Developing Rats: Role of Age of Exposure. Research Report.
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Thermoregulatory Effects of Chlorpyrifos in the Rat: Long-Term Changes in Cholinergic and Noradrenergic Sensitivity.
PB94-197142/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/323
Effects of Methanol on Embryonic Mouse Palate in Serum-Free Organ Culture.
PB94-197134/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/324
Homologous Up-Regulation of the Gonadotropin-Releasing Hormone Receptor in alphaT3-1 Cells Is Associated with Unchanged Receptor Messenger RNA (mRNA) Levels and Altered mRNA Activity.
PB94-197126/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/325
Mathematical Model for Aerosol Deposition in the Respiratory Tract of the Guinea Pig.
PB94-197118/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/326
Application of SAR Methods to Non-Congeneric Data Bases Associated with Carcinogenicity and Mutagenicity: Issues and Approaches.
PB94-197100/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/327
Theoretical Investigation into the Potential of Halogenated Methanes to Undergo Reductive Metabolism.
PB94-197092/REB 94-04 PC **A02**/MF **A01**

EPA/600/J-94/328
Developmental Toxicity and Structure-Activity Relationships of Aliphatic Acids, Including Dose-Response Assessment of Valproic Acid in Mice and Rats.
PB94-197084/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/329
Dose-Dependent Disposition of Sodium Arsenate in Mice Following Acute Oral Exposure.
PB94-202140/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/330
Respiratory Responses to Repeated Prolonged Exposure to 0.12 ppm Ozone.
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EPA/600/J-94/331
Will the Mouse Bioassay for Estimating Sensory Irritancy of Airborne Chemicals (ASTM E 981-84) Be Useful for Evaluation of Indoor Air Contaminants.
PB94-202124/REB 94-04 PC **A02**/MF **A01**

EPA/600/J-94/332
Deposition Patterns of Polydisperse Aerosols within Human Lungs.
PB94-202116/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/333
Colchicine Inhibits Elevations in Both Alveolar-Capillary Membrane Permeability and Lavage Surfactant After Exposure of the Rat to Phosgene.
PB94-196987/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/334
Comparative Molecular Field Analysis of Polyhalogenated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls.
PB94-202108/REB 94-04 PC **A02**/MF **A01**

EPA/600/J-94/335
Antimutagenicity Profiles of Synthetic and Natural Antimutagens.
PB94-202090/REB 94-04 PC **A03**/MF **A01**

EPA/600/J-94/336
Relationship between Delivered Ozone Dose and Functional Responses in Humans.
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EPA/600/J-94/337
Coupled Mass and Energy Transport Phenomena during Breathing of High Volume Aqueous Aerosols.
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EPA/600/J-94/340
X-Cell Pseudotumors in a Hardhead Catfish 'Arius felis' (Ariidae) from Lake Pontchartrain, Louisiana, USA.
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EPA/600/J-94/345
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RED Facts: Glyphosate.
PB94-163417/REB 94-03 PC **A02**/MF **A01**

EPA/738/F-93/012
RED Facts: Sulfuryl Fluoride.
PB94-140027/REB 94-02 PC **A01**/MF **A01**

EPA/738/F-93/013
Pesticide Fact Sheet: Inorganic Arsenical Pesticides.
PB94-139631/REB 94-02 PC **A01**/MF **A01**

EPA/738/F-93/015
RED Facts: Inorganic Halides.
PB94-152121/REB 94-02 PC **A02**/MF **A01**

EPA/738/F-93/016
RED Facts: Tris(hydroxymethyl)-nitromethane.
PB94-168135/REB 94-03 PC **A02**/MF **A01**

EPA/738/F-93/018
RED Facts: Lithium Hypochlorite.
PB94-152949/REB 94-02 PC **A02**/MF **A01**

EPA/738/F-93-019
RED Facts: Barium Metaborate.
PB94-154481/REB 94-02 PC **A02**/MF **A01**

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Pesticide Fact Sheet: Arsenic Acid (H3AsO4) (January 1994).
PB94-150877/REB 94-02 PC **A01**/MF **A01**

EPA/738/F-93/023
RED Facts: Bromine.
PB94-152923/REB 94-02 PC **A02**/MF **A01**

EPA/738/F-93/024
RED Facts: 2-((Hydroxymethyl)-amino)ethanol.
PB94-168077/REB 94-03 PC **A01**/MF **A01**

EPA/738/F-93-025
RED Facts: Mineral Acids.
PB94-154572/REB 94-02 PC **A02**/MF **A01**

EPA/738/F-93/026
RED Facts: Peroxy Compounds.
PB94-151743/REB 94-02 PC **A02**/MF **A01**

EPA/738/F-93/027
RED Facts: Flower and Vegetable Oils.
PB94-152931/REB 94-02 PC **A01**/MF **A01**

EPA/738/F-94/002
RED Facts: Methiocarb.
PB94-168069/REB 94-03 PC **A02**/MF **A01**

EPA/738/F-94/005
RED Facts: Hexadecadienol Acetates.
PB94-203106/REB 94-04 PC **A02**/MF **A01**

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RED Facts: Tebuthiuron.
PB94-187747/REB 94-04 PC **A01**/MF **A01**

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RED Facts: Pronamide.
PB94-203361/REB 94-04 PC **A02**/MF **A01**

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PB94-201100/REB 94-04 PC **A09**/MF **A02**

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Pesticide Reregistration Rejection Rate Analysis Residue Chemistry.
PB94-131901/REB 94-02 PC **A04**/MF **A01**

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Pesticide Reregistration Progress Report, October 1992.
PB94-131729/REB 94-02 PC **A03**/MF **A01**

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PB94-109733/REB 94-01 PC **A05**/MF **A01**

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PB94-112034/REB 94-01 PC **A15**

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PB94-109865/REB 94-01 PC **A04**/MF **A01**

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Pesticide Reregistration Rejection Rate Analysis: Environmental Fate.
PB94-110475/REB 94-01 PC **A11**/MF **A03**

EPA/738/R-93/011
Reregistration Eligibility Decision Document (RED): Daminozide.
PB94-126083/REB 94-02 PC **A05**/MF **A01**

EPA/738/R-93/014
Reregistration Eligibility Decision (RED): Glyphosate.
PB94-127917/REB 94-02 PC **A12**/MF **A03**

EPA/738/R-93/016
RED Facts: Sulfuryl Fluoride.
PB94-140134/REB 94-02 PC **A06**/MF **A02**

EPA/738/R-93/017
Reregistration Eligibility Decision (RED): Boric Acid and Its Sodium Salts.
PB94-160017/REB 94-03 PC **A09**/MF **A03**

EPA/738/R-93/018
Red Facts: Reregistration Eligibility Document, Butylate.
PB94-125945/REB 94-02 PC **A11**/MF **A03**

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Reregistration Eligibility Decision (RED): Inorganic Halides.
PB94-152790/REB 94-02 PC **A07**/MF **A02**

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Reregistration Eligibility Decision (RED): Tri(hydroxymethyl) nitromethane.
PB94-166402/REB 94-03 PC **A09**/MF **A02**

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PB94-133832/REB 94-02 PC **A03**/MF **A01**

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Reregistration Eligibility Decision (RED): Lithium Hypochlorite.
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PB94-154317/REB 94-02 PC **A05**/MF **A01**

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Reregistration Eligibility Decision (RED): Bromine.
PB94-152055/REB 94-02 PC **A07**/MF **A02**

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Reregistration Eligibility Decision (RED): 2-((Hydroxy-Methyl)Amino)ethanol.
PB94-171907/REB 94-03 PC **A07**/MF **A02**

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Reregistration Eligibility Decision (RED): Mineral Acids.
PB94-154242/REB 94-02 PC **A13**/MF **A03**

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Reregistration Eligibility Decision (RED): Peroxy Compounds.
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PB94-166394/REB 94-03 PC **A10**/MF **A03**

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PB94-187523/REB 94-04 PC **A06**/MF **A02**

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Reregistration Eligibility Decision (RED): Cedarwood Oil.
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PB94-152055/REB 94-02 PC **A07**/MF **A02**

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PB94-964024/REB
Superfund Record of Decision (EPA Region 4): Stauffer Chemical, AL., September 1993.
PB94-964024/REB 94-04 Standing Order

PB94-964025/REB
Superfund Record of Decision (EPA Region 4): Smith's Farm, Operable Unit 2, Brooks, KY.
PB94-964025/REB 94-04 Standing Order

PB94-964026/REB
Superfund Record of Decision (EPA Region 4): Koppers (Morrisville Plant), Morrisville, NC., December 1992.
PB94-964026/REB 94-04 Standing Order

PB94-964027/REB
Superfund Record of Decision (EPA Region 4): Rochester Property Site, Travelers Rest, Greenville County, SC., August 1993.
PB94-964027/REB 94-04 Standing Order

PB94-964028/REB
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing (Operable Unit 1), FL., October 1992.
PB94-964028/REB 94-04 Standing Order

PB94-964029/REB
Superfund Record of Decision (EPA Region 4): Reeves Southeastern Galvanizing, Operable Unit 2, Hillsborough County, FL., September 1993.
PB94-964029/REB 94-04 Standing Order

PB94-964030/REB
Superfund Record of Decision (EPA Region 4): Redwing Carriers/Saraland, Mobile County, AL., December 1992.
PB94-964030/REB 94-04 Standing Order

PB94-964031/REB
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 1, Brandon, FL., June 1993.
PB94-964031/REB 94-04 Standing Order

PB94-964032/REB
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, (Operable Unit 2), Brandon, FL., August 1993.
PB94-964032/REB 94-04 Standing Order

PB94-964033/REB
Superfund Record of Decision (EPA Region 4): Kalama Specialty Chemical Site, Beaufort, SC., September 1993.
PB94-964033/REB 94-04 Standing Order

PB94-964034/REB
Superfund Record of Decision (EPA Region 4): Para-Chem Southern, Inc., Simpsonville, SC., September 1993.
PB94-964034/REB 94-04 Standing Order

PB94-964035/REB
Superfund Record of Decision (EPA Region 4): Peak Oil/Bay Drums Site, Operable Unit 3, Brandon, FL., March 1993.
PB94-964035/REB 94-04 Standing Order

PB94-964036/REB
Superfund Record of Decision (EPA Region 4): National Southwire Aluminum, Hancock County, Hawesville, KY., February 1993.
PB94-964036/REB 94-04 Standing Order

PB94-964037/REB
Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries Site, Operable Unit 2, DeLand, FL., October 1992.
PB94-964037/REB 94-04 Standing Order

PB94-964038/REB
Superfund Record of Decision (EPA Region 4): Geiger (C and M Oil) Site, (Amendment), Rantowles, SC., July 1993.
PB94-964038/REB 94-04 Standing Order

PB94-964039/REB
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Jacksonville, NC., January 1993.
PB94-964039/REB 94-04 Standing Order

PB94-964040/REB
Superfund Record of Decision (EPA Region 4): Elmore Waste Disposal Site, Spartanburg County, Greer, SC., April 1993.
PB94-964040/REB 94-04 Standing Order

PB94-964041/REB
Superfund Record of Decision (EPA Region 4): Anodyne, Inc. Site, North Miami Beach, FL., June 1993.
PB94-964041/REB 94-04 Standing Order

PB94-964042/REB
Superfund Record of Decision (EPA Region 4): Chemform, Inc., Site, Operable Unit Two, Pompano Beach, FL., September 1993.
PB94-964042/REB 94-04 Standing Order

PB94-964043/REB
Superfund Record of Decision (EPA Region 4): Firestone Tire and Rubber Company Site, Dougherty County, Albany, GA., June 1993.
PB94-964043/REB 94-04 Standing Order

PB94-964044/REB
Superfund Record of Decision (EPA Region 4): (FCX Washington Site), Beaufort County, Washington, NC., September 1993.
PB94-964044/REB 94-04 Standing Order

PB94-964045/REB
Superfund Record of Decision (EPA Region 4): FCX-Statesville Site, Operable Unit One, Iredell County, Statesville, NC., September 1993.
PB94-964045/REB 94-04 Standing Order

PB94-964046/REB
Superfund Record of Decision (EPA Region 4): Beulah Landfill Site, Pensacola, FL. September 1993.
PB94-964046/REB 94-04 Standing Order

PB94-964047/REB
Superfund Record of Decision (EPA Region 4): Cedartown Industries, Cedartown, GA., May 1993.
PB94-964047/REB 94-04 Standing Order

PB94-964048/REB
Superfund Record of Decision (EPA Region 4): Mathis Brothers Landfill (South Marble Top Road), Walker County, GA., March 1993.
PB94-964048/REB 94-04 Standing Order

PB94-964049/REB
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, O-Line Ponds Area, Milan, TN., September 1993.
PB94-964049/REB 94-04 Standing Order

PB94-964050/REB
Superfund Record of Decision (EPA Region 4): Bypass 601 Groundwater Contamination Site, Operable Unit 2, Concord, NC., April 1993.
PB94-964050/REB 94-04 Standing Order

PB94-964051/REB
Superfund Record of Decision (EPA Region 4): Davie Landfill Site, Davie, FL., August 1994.
PB94-964051/REB 94-04 Standing Order

PB94-964052/REB
Superfund Record of Decision (EPA Region 4): BMI-Textron Site, Lake Park, FL., August 1994.
PB94-964052/REB 94-04 Standing Order

PB94-964053/REB
Superfund Record of Decision (EPA Region 4): ABC One-Hour Cleaners Site, Operable Unit 2, Jacksonville, NC., September 1994.
PB94-964053/REB 94-04 Standing Order

PB94-964054/REB
Superfund Record of Decision (EPA Region 4): Upper East Fork Poplar Creek, Operable Unit 2 (Abandoned Nitric Acid Pipeline at Y-12 Plant), Oak Ridge, TN., September 1994.
PB94-964054/REB 94-04 Standing Order

PB94-964055/REB
Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 2, Childersburg, AL., August 1994.
PB94-964055/REB 94-04 Standing Order

PB94-964056/REB
Superfund Record of Decision (EPA Region 4): B and B Chemical Site, Hialeah, FL., September 1994.
PB94-964056/REB 94-04 Standing Order

PB94-964057/REB
Superfund Record of Decision (EPA Region 4): Naval Air Station Cecil Field, Operable Unit 6, Jacksonville, Fl., September 1994.
PB94-964057/REB 94-04 Standing Order

PB94-964058/REB
Superfund Record of Decision (EPA Region 4): Savannah River Site, (USDOE), SC., September 1994.
PB94-964058/REB 94-04 Standing Order

PB94-964101/REB
Superfund Record of Decision (EPA Region 5): Perham Arsenic Burial Site, Perham, MN., March 1994.
PB94-964101/REB 94-04 Standing Order

PB94-964102/REB
Superfund Record of Decision (EPA Region 5): J and L Landfill Site, Rochester Hills, MI., June 1994.
PB94-964102/REB 94-04 Standing Order

PB94-964103/REB
Superfund Record of Decision (EPA Region 5): Himco Dump, Elkhart, IN., September 1993.
PB94-964103/REB 94-04 Standing Order

PB94-964104/REB
Superfund Record of Decision (EPA Region 5): Wash King Laundry, Baldwin, MI., March 1993.
PB94-964104/REB 94-04 Standing Order

PB94-964105/REB
Superfund Record of Decision (EPA Region 5): U.S. Air Force, Wright-Patterson AFB, OH., July 1993.
PB94-964105/REB 94-04 Standing Order

PB94-964106/REB
Superfund Record of Decision (EPA Region 5): Woodstock Municipal Landfill, Woodstock, IL., June 1993.
PB94-964106/REB 94-04 Standing Order

PB94-964107/REB
Superfund Record of Decision (EPA Region 5): Powell Road Landfill, Huber Heights, OH., September 1993.
PB94-964107/REB 94-04 Standing Order

PB94-964108/REB
Superfund Record of Decision (EPA Region 5): Ott/Story/Cordova Chemical Site, Operable Unit 3, North Muskegon, MI., September 1993.
PB94-964108/REB 94-04 Standing Order

PB94-964109/REB
Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemcial, Indianapolis, IN., September 1993.
PB94-964109/REB 94-04 Standing Order

PB94-964110/REB
Superfund Record of Decision (EPA Region 5); Muskegon Chemical, Whitehall, MI., March 1993.
PB94-964110/REB 94-04 Standing Order

PB94-964111/REB
Superfund Record of Decision (EPA Region 5): Spartan Chemical Site, Wyoming, MI., June 1993.
PB94-964111/REB 94-04 Standing Order

PB94-964112/REB
Superfund Record of Decision (EPA Region 5); Lakeland Disposal Service, Claypool, IN., September 1993.
PB94-964112/REB 94-04 Standing Order

PB94-964114/REB
Superfund Record of Decision (EPA Region 5): New Brighton/Arden Hills, Twin Cities Army Ammunition Plant, MN., September 1993.
PB94-964114/REB 94-04 Standing Order

PB94-964115/REB
Superfund Record of Decision (EPA Region 5): MacGillis and Gibbs/Bell Lumber and Pole, New Brighton, MN., December 1992.
PB94-964115/REB 94-04 Standing Order

PB94-964116/REB
Superfund Record of Decision (EPA Region 5): Sanitary Landfill Company (IWD) Site (a.k.a. Cardington Road Landfill), Moraine, OH., September 1993.
PB94-964116/REB 94-04 Standing Order

PB94-964117/REB
Superfund Record of Decision (EPA Region 5): American Anodco, Inc., Ionia, MI., September 1993.
PB94-964117/REB 94-04 Standing Order

PB94-964118/REB
Superfund Record of Decision (EPA Region 5): Packaging Corporation of America, Filer City, MI., September 1993.
PB94-964118/REB 94-04 Standing Order

PB94-964119/REB
Superfund Record of Decision (EPA Region 5): Mason County Landfill, Ludington, MI., September 1993.
PB94-964119/REB 94-04 Standing Order

PB94-964120/REB
Superfund Record of Decision (EPA Region 5): East Bethel Demolition Landfill, East Bethel, MN., March 1993.
PB94-964120/REB 94-04 Standing Order

PB94-964121/REB
Superfund Record of Decision (EPA Region 5): Adams Plating Company Site, Lansing, MI., September 1993.
PB94-964121/REB 94-04 Standing Order

PB94-964122/REB
Superfund Record of Decision (EPA Region 5): Dakhue Sanitary Landfill, Cannon Falls, MN., June 1993.
PB94-964122/REB 94-04 Standing Order

PB94-964123/REB
Superfund Record of Decision (EPA Region 5): Adams County Quincy Landfills No. 2 and 3, Quincy, IL., September 1993.
PB94-964123/REB 94-04 Standing Order

PB94-964124/REB
Superfund Record of Decision (EPA Region 5): Koppers Coke Site, St. Paul, MN., April 1994.
PB94-964124/REB 94-04 Standing Order

PB94-964125/REB
Superfund Record of Decision (EPA Region 5): Land and Gas Reclamation Landfill Site, Williamstown, WI., January 1994.
PB94-964125/REB 94-04 Standing Order

PB94-964126/REB
Superfund Record of Decision (EPA Region 5): Olmsted County Sanitary Landfill Site, MN., June 1994.
PB94-964126/REB 94-04 Standing Order

PB94-964127/REB
Superfund Record of Decision (EPA Region 5): Sauk County Landfill Site, Excelsior, WI., March 1994.
PB94-964127/REB 94-04 Standing Order

PB94-964128/REB
Superfund Record of Decision (EPA Region 5): Van Dale Junkyard Site, Washington County, OH., March 1994.
PB94-964128/REB 94-04 Standing Order

PB94-964129/REB
Superfund Record of Decision (EPA Region 5): N. W. Mauthe Site, Appleton, WI., March 1994.
PB94-964129/REB 94-04 Standing Order

PB94-964130/REB
Superfund Record of Decision (EPA Region 5): Agate Lake Scrap Yard Site, MN., December 1993.
PB94-964130/REB 94-04 Standing Order

PB94-964131/REB
Superfund Record of Decision (EPA Region 5): South Andover Salvage Yards, Andover, MN., May 1994.
PB94-964131/REB 94-04 Standing Order

PB94-964132/REB
Superfund Record of Decision (EPA Region 5): Waste, Inc., Landfill Site, Michigan City, IN., August 1994.
PB94-964132/REB 94-04 Standing Order

PB94-964133/REB
Superfund Record of Decision (EPA Region 5): Prestolite Battery, Vincennes, IN., August 1994.
PB94-964133/REB 94-04 Standing Order

PB94-964201/REB
Superfund Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., June 1993.
PB94-964201/REB 94-04 Standing Order

PB94-964202/REB
Superfund Record of Decision (EPA Region 6): Tenth Street Dump/Junkyard Site, Oklahoma City, OK., (Amendment), September 1993.
PB94-964202/REB 94-04 Standing Order

PB94-964203/REB
Superfund Record of Decision (EPA Region 6): Texarkana Wood Preserving Company, Operable Unit 2, Texarkana, TX., September 1993.
PB94-964203/REB 94-04 Standing Order

PB94-964204/REB
Superfund Record of Decision (EPA Region 6): Tinker AFB (Soldier Creek/Building 3001), OK., September 1993.
PB94-964204/REB 94-04 Standing Order

PB94-964205/REB
Superfund Record of Decision (EPA Region 6): Popile, Inc., El Dorado, AR., February 1993.
PB94-964205/REB 94-04 Standing Order

PB94-964206/REB
Superfund Record of Decision (EPA Region 6): PAB Oil and Chemical Services, Vermilion Parish, LA., September 1993.
PB94-964206/REB 94-04 Standing Order

PB94-964207/REB
Superfund Record of Decision (EPA Region 6): Fourth Street Abandoned Refinery Site, Oklahoma City, OK., September 1993.
PB94-964207/REB 94-04 Standing Order

PB94-964208/REB
Superfund Record of Decision (EPA Region 6): American Creosote Works (Winnfield Plant), Winnfield, LA., April 1993.
PB94-964208/REB 94-04 Standing Order

PB94-964209/REB
Superfund Record of Decision (EPA Region 6): Cleveland Mill Site, Grant County, NM., September 1993.
PB94-964209/REB 94-04 Standing Order

PB94-964301/REB
Superfund Record of Decision (EPA Region 7): Hastings Groundwater Contamination Site, Hastings, NE., June 1993.
PB94-964301/REB 94-04 Standing Order

PB94-964302/REB
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), MO., September 1993.
PB94-964302/REB 94-04 Standing Order

PB94-964303/REB
Superfund Record of Decision (EPA Region 7): Red Oak Landfill, Red Oak, IA., March 1993.
PB94-964303/REB 94-04 Standing Order

PB94-964304/REB
Superfund Record of Decision (EPA Region 7): Syntex Agribusiness, Inc., Operable Unit 2, Verona, MO., May 1993.
PB94-964304/REB 94-04 Standing Order

PB94-964305/REB
Superfund Record of Decision (EPA Region 7): Kem-Pest Laboratories, Cape Girardeau, MO., February 1993.
PB94-964305/REB 94-04 Standing Order

PB94-964306/REB
Superfund Record of Decision (EPA Region 7): North U Drive Well Contamination, Springfield, MO., March 1993.
PB94-964306/REB 94-04 Standing Order

PB94-964307/REB
Superfund Record of Decision (EPA Region 7): Sherwood Medical Company Site, Norfolk, NE., September 1993.
PB94-964307/REB 94-04 Standing Order

PB94-964308/REB
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 3, (Amendment), Kellogg, IA., September 1993.
PB94-964308/REB 94-04 Standing Order

PB94-964309/REB
Superfund Record of Decision (EPA Region 7): Chemplex Site, Clinton, IA., May 1993.
PB94-964309/REB 94-04 Standing Order

PB94-964310/REB
Superfund Record of Decision (EPA Region 7): McGraw-Edison Facility, Centerville, IA., September 1993.
PB94-964310/REB 94-04 Standing Order

PB94-964311/REB
Superfund Record of Decision (EPA Region 7): Midwest Manufacturing/North Farm Site, Operable Unit 2, (Amendment), Kellogg, IA., September 1993.
PB94-964311/REB 94-04 Standing Order

PB94-964312/REB
Superfund Record of Decision (EPA Region 7): Electro-Coatings, Inc., Site, Cedar Rapids, IA., September 1994.
PB94-964312/REB 94-04 Standing Order

PB94-964401/REB
Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant National Priorities List Site, Butte, MT., September 1993.
PB94-964401/REB 94-04 Standing Order

PB94-964402/REB
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site (Operable Unit 4), Commerce City, CO., April 1994.
PB94-964402/REB 94-04 Standing Order

PB94-964405/REB
Superfund Record of Decision (EPA Region 8): F. E. Warren Air Force Base, Cheyenne, WY., December 1992.
PB94-964405/REB 94-04 Standing Order

PB94-964406/REB
Superfund Record of Decision (EPA Region 8): Utah Power and Light/American Barrel Site, Salt Lake City, UT., July 1993.
PB94-964406/REB 94-04 Standing Order

PB94-964407/REB
Superfund Record of Decision (EPA Region 8): Montana Pole and Treating Plant, Butte, MT., September 1993.
PB94-964407/REB 94-04 Standing Order

PB94-964408/REB
Superfund Record of Decision (EPA Region 8): Minot Landfill Site, Minot, ND., June 1993.
PB94-964408/REB 94-04 Standing Order

PB94-964409/REB
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 27, Commerce City, CO., September 1993.
PB94-964409/REB 94-04 Standing Order

PB94-964410/REB
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 28, CO., January 1993.
PB94-964410/REB 94-04 Standing Order

PB94-964411/REB
Superfund Record of Decision (EPA Region 8): Rocky Mountain Arsenal, Operable Unit 29, Commerce City, CO., September 1993.
PB94-964411/REB 94-04 Standing Order

PB94-964412/REB
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 5, Commerce City, CO., (Amendment), September 1993.
PB94-964412/REB 94-04 Standing Order

PB94-964413/REB
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Unit 2, Commerce City, CO., June 1993.
PB94-964413/REB 94-04 Standing Order

PB94-964414/REB
Superfund Record of Decision (EPA Region 8): Chemical Sales Company Site, Operable Unit 4, Commerce City, CO., December 1992.
PB94-964414/REB 94-04 Standing Order

PB94-964415/REB
Superfund Record of Decision (EPA Region 8): Sand Creek Industrial Site, Operable Units 3 and 6, Commerce City, CO., June 1993.
PB94-964415/REB 94-04 Standing Order

PB94-964416/REB
Superfund Record of Decision (EPA Region 8): Eagle Mine Site, Operable Unit 1, Eagle County, CO., March 1993.
PB94-964416/REB 94-04 Standing Order

PB94-964417/REB
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 4, UT., June 1994.
PB94-964417/REB 94-04 Standing Order

PB94-964501/REB
Superfund Record of Decision (EPA Region 9): Indian Bend Wash Site, Tempe, AZ., September 1993.
PB94-964501/REB 94-04 Standing Order

PB94-964502/REB
Superfund Record of Decision (EPA Region 9): Baldwin Park San Gabriel Valley Area Site, Los Angeles County, CA., March 1994.
PB94-964502/REB 94-04 Standing Order

PB94-964503/REB
Superfund Record of Decision (EPA Region 9): Aircraft Control and Warning Site, Mather Air Force Base, CA., December 1993.
PB94-964503/REB 94-04 Standing Order

PB94-964506/REB
Superfund Record of Decision (EPA Region 9): Castle Air Force Base (Operable Unit 2), Merced County, CA., November 1993.
PB94-964506/REB 94-04 Standing Order

PB94-964507/REB
Superfund Record of Decision (EPA Region 9): Southern California Edison, Visalia Pole Yard, Visalia, CA., June 1994.
PB94-964507/REB 94-04 Standing Order

PB94-964508/REB
Superfund Record of Decision (EPA Region 9): Riverbank Army Ammunition Plant Site, Riverbank, CA., March 1994.
PB94-964508/REB 94-04 Standing Order

PB94-964509/REB
Superfund Record of Decision (EPA Region 9): Norton Air Force Base, San Bernardino, CA., November 1993.
PB94-964509/REB 94-04 Standing Order

PB94-964510/REB
Superfund Record of Decision (EPA Region 9): Hexcel, Livermore, CA., September 1993.
PB94-964510/REB 94-04 Standing Order

PB94-964511/REB
Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Shasta County, CA., September 1993.
PB94-964511/REB 94-04 Standing Order

PB94-964512/REB
Superfund Record of Decision (EPA Region 9): Waste Disposal, Inc., Santa Fe Springs, CA., December 1993.
PB94-964512/REB 94-04 Standing Order

PB94-964513/REB
Superfund Record of Decision (EPA Region 9): George Air Force Base, Operable Unit 1, San Bernardino County, CA., March 1994.
PB94-964513/REB 94-04 Standing Order

PB94-964514/REB
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 2, Phoenix, AZ., December 1992.
PB94-964514/REB 94-04 Standing Order

PB94-964515/REB
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot, Operable Unit 1, Tracy, CA., August 1993.
PB94-964515/REB 94-04 Standing Order

PB94-964516/REB
Superfund Record of Decision (EPA Region 9): Newmark Groundwater Contamination Site, San Bernardino, CA., August 1993.
PB94-964516/REB 94-04 Standing Order

PB94-964517/REB
Superfund Record of Decision (EPA Region 9): Liquid Gold Oil Corporation, Richmond, CA., June 1993.
PB94-964517/REB 94-04 Standing Order

PB94-964518/REB
Superfund Record of Decision (EPA Region 9): Sharpe Army Depot, Operable Unit 1, Lathrop, CA., January 1993.
PB94-964518/REB 94-04 Standing Order

PB94-964519/REB
Superfund Record of Decision (EPA Region 9): Fresno Sanitary Landfill Site, Fresno, CA., September 1993.
PB94-964519/REB 94-04 Standing Order

PB94-964520/REB
Superfund Record of Decision (EPA Region 9): McColl Site, Source Operable Unit, Fullerton, CA., June 1993.
PB94-964520/REB 94-04 Standing Order

PB94-964521/REB
Superfund Record of Decision (EPA Region 9): Sacramento Army Depot, Burn Pits Operable Unit, Sacramento, CA., February 1993.
PB94-964521/REB 94-04 Standing Order

PB94-964522/REB
Superfund Record of Decision (EPA Region 9): Lorentz Barrel and Drum Site, Operable Unit 1, San Jose, CA., August 1993.
PB94-964522/REB 94-04 Standing Order

PB94-964523/REB
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 3, Los Angeles County, CA., June 1993.
PB94-964523/REB 94-04 Standing Order

PB94-964524/REB
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1 through 4, Whittier Narrows Operable Unit, Los Angeles County, CA., March 1993.
PB94-964524/REB 94-04 Standing Order

PB94-964525/REB
Superfund Record of Decision (EPA Region 9): San Gabriel Valley Site, Areas 1-4, Suburban Water Systems/Bartolo Well Field Operable Unit, (Amendment), CA., September 1993.
PB94-964525/REB 94-04 Standing Order

PB94-964526/REB
Superfund Record of Decision (EPA Region 9): McClellan Air Force Base, Operable Unit B1, CA., September 1993.
PB94-964526/REB 94-04 Standing Order

PB94-964527/REB
Superfund Record of Decision (EPA Region 9): San Fernando Valley Area 2, Operable Unit 2, Los Angeles County, CA., June 1993.
PB94-964527/REB 94-04 Standing Order

PB94-964528/REB
Superfund Record of Decision (EPA Region 9): Applied Materials, Inc., Santa Clara, CA., August 1993.
PB94-964528/REB 94-04 Standing Order

PB94-964529/REB
Superfund Record of Decision (EPA Region 9): Motorola 52nd Street, Operable Unit 2, Phoenix, AZ., July 1994.
PB94-964529/REB 94-04 Standing Order

PB94-964530/REB
Superfund Record of Decision (EPA Region 9): Williams Air Force Base, Operable Unit 1, AZ., April 1994.
PB94-964530/REB 94-04 Standing Order

PB94-964531/REB
Superfund Record of Decision (EPA Region 9): Fort Ord, CA., February 1994.
PB94-964531/REB 94-04 Standing Order

PB94-964603/REB
Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island (Operable Unit 1, Areas 5 and 6), Oak Harbor, WA., December 1993.
PB94-964603/REB 94-04 Standing Order

PB94-964604/REB
Superfund Record of Decision (EPA Region 10): Fairchild Air Force Base, Craig Road Landfill Operable Unit, Spokane, WA., February 1993.
PB94-964604/REB 94-04 Standing Order

PB94-964605/REB
Superfund Record of Decision (EPA Region 10): Naval Submarine Base, Operable Unit 3, Bangor, WA., March 1994.
PB94-964605/REB 94-04 Standing Order

PB94-964606/REB
Superfund Record of Decision (EPA Region 10): N.A.S. Whidbey Island, Ault Field, Operable Unit 2, Oak Harbor, WA., June 1994.
PB94-964606/REB 94-04 Standing Order

PB94-964607/REB
Superfund Record of Decision (EPA Region 10): Teledyne Wah Chang Albany Site, Millersburg, OR., June 1994.
PB94-964607/REB 94-04 Standing Order

PB94-964608/REB
Superfund Record of Decision (EPA Region 10): Bangor Naval Submarine Base, Operable Unit 5, Bangor, WA., September 1993.
PB94-964608/REB 94-04 Standing Order

PB94-964609/REB
Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 1, Hermiston, OR., December 1992.
PB94-964609/REB 94-04 Standing Order

PB94-964610/REB
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 12, Idaho Falls, ID., December 1992.
PB94-964610/REB 94-04 Standing Order

PB94-964611/REB
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 4, Idaho Falls, ID., December 1992.
PB94-964611/REB 94-04 Standing Order

PB94-964612/REB
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 9, Idaho Falls, ID., December 1992.
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PB94-964613/REB 94-04 Standing Order

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Superfund Record of Decision (EPA Region 10): Umatilla Army Depot (Lagoons), Operable Unit 8, Hermiston, OR., August 1993.
PB94-964614/REB 94-04 Standing Order

PB94-964615/REB
Superfund Record of Decision (EPA Region 10): U.S. DOE Idaho National Engineering Laboratory, Operable Unit 18, Idaho Falls, ID., September 1993.
PB94-964615/REB 94-04 Standing Order

PB94-964616/REB
Superfund Record of Decision (EPA Region 10): Mountain Home Air Force Base, Landfill No. 2, Operable Unit 2, Mountain Home, ID., May 1993.
PB94-964616/REB 94-04 Standing Order

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Options for Reducing the Costs of Criteria Pollutant Monitoring.
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Guide to Planting Seagrasses in the Gulf of Mexico.
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PB94-116050/REB 94-01 PC **A09**/MF **A02**

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11. REB										
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