

EPA Publications Bibliography

Quarterly Abstract Bulletin



Product Announcement



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New CD-ROM Offers Complete, Current EPA Superfund Information 1997 RODS Now Included in NTIS CD

Researching hazardous waste sites and responsible party issues is costly and time consuming. But, a newly-developed CD-ROM product, $RODcite^{TM}$, is taking the headaches out of locating the Environmental Protection Agency's Records of Decision. These key Superfund documents detail site contamination, cleanup, cost estimates, and EPA's responsiveness to the public comment summary.

EPA's ROD information is assembled by Peterson Consulting LLC in cooperation with The Olewine company and distributed by the National Technical Information Service. *RODcite* is a *complete* and *current* database of the full text of EPA's RODs, and their amendments, and Explanations of Significant Differences. Quarterly updates provide new RODs as they are issued. For example, the Spring 1998 issue of *RODcite*, now available, updates the database with the set of 1997 RODs.

In addition to full text RODs issued since 1982 from the EPA Superfund program, *RODcite* also includes multi-page ROD summaries. Each summary contains the EPA ID and ROD number, dates of site operation, site history, selected remedy, cleanup costs, and enforcement information. The summaries allow the user to review the RODs quickly and easily, saving precious research time and project dollars.

With its powerful search engine, *RODcite* allows both full proximity searching and fixed field searching in the same query, such as by:

- Words or phrases (i.e. contaminates, remedy, etc.)
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- Dates of operation and costs
- Site name, ROD number or ROD date, and EPA ID number

RODcite, Records of Decision (RODs) (Single user) (on CD-ROM) is available as a subscription from NTIS, 1-800-363-2068, \$1,800 for three issues during the year; order number SUB-5437KMP. It is also available in single issues for \$650 each. Most major credit cards accepted. Order via e-mail: subscriptions@ntis.fedworld.gov. Fax orders to: (703) 321-9467. For more information about RODcite, visit http://www.ntis.gov/envirn/rods.htm.

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SAMPLE ENTRY

NTIO Andre Number Madic Andre	
NTIS Order Number/Media Code Price Codes	PB94-100443/REB
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 Quarterly Abstract Bulletin

PB97-963111REB PC A02/MF A01 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): United Heckathom Company, Richmond, CA., No-

Vernicer 29, 1990.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Mar 98, 8p, EPA/541/R-97/035.
See also PB95-964501.

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The United States Environmental Protection Agency The United States Environmental Protection Agency (EPA) is issuing this explanation of significant differences (ESD) for the United Heckathorn Superfund Site located in Richmond, California (the Site). The U.S. National Oceanic and Atmopsheric Administration (NOAA), recommended that the dredging of the Lauritzen Channel and Parr Canal not be conducted during the period from December 1 to March 1 in order to protect the herring spawning season in San Francisco Bay. By this ESD, EPA is now authorizing and allowing marine response actions, including dredging and related activities, in the Lauritzen Channel and Parr Canal to be conducted on and after December 1. Parr Canal, to be conducted on and after December 1.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Water pollution control, DDT, Dieldrin, Pesticide residues, Sediments, Dredging, Capping, Fisheries, Environmental monitoring, Restrictions, Remedial action, California, "ESD(Explanation of Significant Difference), "Explanation of Significant Difference, Record of Decision, Richmond(California), Contral Costa County (California), Cleanus coertions Costa County(California), Cleanup operations.

PB97-963117REB PC A08/MF A02 Superfund Explanation of Significant Difference Superrund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Selma Treating Co., Selma, CA., April 18, 1997. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Nov 97, 132p, EPA/541/R-97/041. See also PB89-204853 and PB95-963122.

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On September 24, 1988, the United States Environmental Protection Agency ("EPA") signed the Record of Decision ("1988 ROD") for the Selma Pressure Treating Superfund Site in Selma, California ("Site"). This Explanation of Significant Differences No. 2 ("ESD2") explains the significant differences between the remedial action selected in the 1988 ROD, as changed by the Explanation of Significant Differences issued in 1993 (1993 ESD), and the remedial action which will be implemented at the Site. This ESD2 explains changes in certain remedial action details pertaining to the return of the treated water to the aquifer as described in the ROD. The 1988 ROD selected a groundwater remedy which would employ a conventional precipitation, co-On September 24, 1988, the United States Environwhich would employ a conventional precipitation, co-agulation, and flocculation extraction and treatment process, with either reinjection or off-site disposal of the treated effluent. Based on reconsideration of certain technical information during the design phase and additional data gathered pursuant to the ROD, EPA proposes to modify the remedy by using percolation ponds to return the treated water to the aquifer.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Pentachlorophenol, Phenols, Wood preservatives, Ground water, Aquifers, Water treatment, Discharge(Water), California, *ESD(Explanation of Significant Difference, *Explanation of Significant Difference, *First Remedial Action, Selma(California), Tenero C., *First Remedial Action, Selma(California), California, Papart of Paradicion, Control (California), California, Cal Fresno County(California), Record of Decision, Cleanup operations.

PB97-963119REB PC A02/MF A01 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Toftdahl Drums, Brush Prairie, WA., June 17,

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Nov 97, 10p, EPA/541/R-97/053. See also PB87-187738 and PB90-119553.

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The purpose of this Explanation of Significant Dif-The purpose of this Explanation of Significant Dif-ferences (ESD) is to discontinue the long-term ground water monitoring at the Tofdahl Drums site. All Reme-dial Investigation and post-ROD data collected by Ecology demonstrate there is no ground water con-tamination problem associated with this site. Contin-ued groundwater monitoring is not needed to ensure protection of human health and the environment.

Keywords: "Superfund, "Hazardous materials, "Waste reywords: "Supertuno, "Hazaroous materials, "Waster pollution monitoring, Remedial action, Washington, "ESD(Explanation of Significant Difference), "Explanation of Significant Difference, Record of Decision, Brush Prairie(Washington), Clark Countification) tv(Washington).

PB97-963120REB PC A07/MF A02 PB97-963120REB PC A07/MF A02
Superfund Explanation of Significant Difference of
the Record of Decision (EPA Region 10): Commencement Bay, Near Shore/Tide Flats, Operable
Unit 01 - Sediments and Operable Unit 05 Source, Pierce County, WA., July 28, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 120p, EPA/541/R-97/059.
See also PB89-225544.
Pager conveniently as a proposing superinting cred-

See also PB09-225544.

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The purpose of this Explanation of Significant Difference ESD is to modify the cleanup level for remediation of marine sediments contaminated with polychlorinated biphenyls (PCBs) at the Commencement Bay Nearshore/Tideflates (CB/NT) Superfund site. EPA's September 30, 1989, Record of Decision (ROD) for the RN/NT Site established deapure levels called for the BN/NT Site established cleanup levels, called Sediment human health and the environment at the CB/NT Site. With this ESD, EPA is modifying the PCB SRAL to 450 micrograms/kg, to be achieved during cleanup, and the PCB SQO 300 micrograms/kg, to be achieved 10 years after cleanup.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Commencement Bay, Poly-chlorinated biphenyls, Sediments, Excavation, Washington, "ESD(Explanation of Significant Difference), "Explanation of Significant Difference, *First Remedial Action, Record of Decision, Natural attenuation, Cleanup operations, Pierce County(Washington).

PB97-963121REB PC A06/MF A01 PB97-963121REB PC A06/MF A01 Superfund Record of Decision Amendment (EPA Region 10): Gould, Inc., Soils Operable Unit, Portland, OR., June 3, 1997.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Nov 97, 78p, EPA/541/R-97/060.
See also PB89-153852.

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This decision document presents the selected amended remedial action for the Soils Operable Unit at the Gould Superfund Site (Site). This decision documents changes to several components of the selected remechanges to several components of the selected remedial action for the Gould Site Soils Operable Unit. The ROD for this operable unit, signed on March 31, 1988, required treatment of contaminated battery casings to remove and recycle lead, and treatment of soil, sediment and matte to reduce the mobility of lead. This ROD Amendment allows treated and untreated contaminated material to be consolidated and contained in an on-site containment facility (OCF) on the Gould

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Land pollution control, Debris, Batteries, Lead(Metal), Leachate, Soil contamination, Sediments, Soil treatment, Containment, Ground water, Water pollution monitoring, Environmental monitoring, Restrictions, Oregon, *Record of Decision Amendment, *First Remedial Action, Portland(Oregon), Multnomah County(Oregon), Cleanup operations.

PB97-963127REB PC A04/MF A01 Superfund Record of Decision (EPA Region 10): Hanford Site - 100 Area (USDOE) 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units, Benton Coun-ty, WA April 4 1007

ty, WA., April 4, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 38p, EPA/541/R-97/044.
See also PB95-964616.

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This decision document changes components of the selected interim remedial action for the Hanford 100 Area radioactive liquid effluent disposal sites and clari-Area radioactive induced enturing disposal sites and carri-fies the roles of revegetation or remediated sites with respect to the completion of the remedial actions. This amendment increases the scope of the selected remedy to include 34 additional sites in the 100 Area that received similar waste discharges and reduces the overall estimated cost for the remedial action to \$194 million for 71 sites. This amendment also recognizes the results of the soil volume reduction treatability studies that indicate soil washing for volume reduction is not cost effective. Therefore, this treatment step will no longer be retained as an option for the 100 Area radioactive liquid effluent disposal sites. This amendment also clarifies that revegetation of remediated wastes sites will be addressed using the guidance provided in the current Mitigation Action Plan.

Keywords: "Superfund, "Hazardous materials, "Land reywords. Superior, Hazaroous materials, Land pollution control, "Radioactive waste management, Hanford Reservation, Radioactive effluents, Liquid wastes, Soil management, Soil treatment, Revegetation, Remedial action, "Record of Decision Amendment, Benton County(Washington), Cleanup operations." ations.

PB97-963128REB PC A03/MF A01 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Teledyne Wah Chang, Albany, OR., October 8,

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 24p, EPA/541/R-97/082. See also PB91-921414.

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This document addresses significant change to the Groundwater and Sediments Remedy described in the

Final Remedial Action of Groundwater and Sediments Operable Unit, Teledyne Wah Chang Albany, June 10, 1994. In the development of that document, Teledyne petitioned EPA to make the modifications to the perimeter containment requirements of the ground-water ROD (described in Section 5). The rationale for the perimeter changes is based on groundwater data collected subsequent to the RI/FS. The additional changes are the logical outgrowth of translating ROD requirements into an implementable Scope of Work based on the newly available data.

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Ammonium compounds, Metals, Polychlorinated biphenyls, Radioisotopes, Thorium, Sludges, Ground water, Sediments, Remedial action, Oregon, "ESD(Explanation of Significant Difference, Record of Deci-Explanation of Significant Difference, Record of Decision, Albany(Oregon), Linn County(Oregon), Volatile organic compounds, Semivolatile organic compounds, Cleanup operations.

PB97-963129REB PC A03/MF A01 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Volney Municipal Landfill, Town of Volney, NY., August 7,

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jul 98, 12p, EPA/541/R-97/086.
See also PB88-126552.

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This ESD modifies the previously-selected remedy, which consists of supplemental capping of he landfill side slopes, installation of a more extensive leachate collection system, installation of a slurry wall, performance of treatability studies of determine if leachate treatment/disposal should be on- or off-site, implementation of the on- or off-site treatment/disposal alternative, and long-term monitoring. Based upon the results of previous of previous the authors promose to native, and long-term monitoring. Based upon the re-sults of pre-design studies, the authors propose to modify the remedy to include supplemental capping of the landfill side slopes, continued leachate collection from the existing leachate collection system, intermit-tent ground water extraction on an as-needed-basis (after initial pumping), off-site leachate and ground-water treatment, and long-term monitoring.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Water pollution control, Landfills, Liquid wastes, Capping, Leachate, Ground water, Extraction, Water treatment, Barriers, Environmental monitoring, water rearrient, barriers, Environmental monitoring, Water pollution monitoring, New York,
"ESD(Explanation of Significant Difference),
"Explanation of Significant Difference, "First Remedial
Action, Record of Decision, Volney(New York), Action, Record of Decision, Volatile organic compounds, Cleanup operations.

PB97-963134REB PC A07/MF A02 PB97-963134REB PC A07/MF A02
Superfund Record of Decision Amendment (EPA
Rgelon 6): South Cavalcade Street Site, Houston,
TX., June 27, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 112p, EPA/541/R-97/121.
See also PB89-206270.

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This decision document presents an amendment to the selected remedial action for the South Cavalcade Street Site. This amendment fundamentally changes the Record of Decision (ROD) executed by the Regional Administrator on September 26, 1988. This amended remedy will seal and contain soils contaminated with greater than 700 ppm carcinogenic polyaromatic hydrocarbons (cPAH) beneath a six inch thick reinforced concrete cap.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Polycyclic aromatic hydrocarbons, Creosote, Wood preservatives, Soil contamination, Capping, Texas, "Record of Decision Amendment, "First Remedial Action, Houston(Texas), Harris County(Texas), Cleanup operations.

PB97-963136REB PC A04/MF A01 Superfund Record of Decision Amendment (EPA Superfund Record of Decision Amendment (EPA Region 10): Hanford Site - 200 Area (USDOE), Benton County, WA., September 25, 1997.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Jan 98, 34p, EPA/541/R-97/101.
See also PB95-964602.

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This ROD Amendment is based on the Administrative Record for the Environmental Restoration Disposal Facility. The ERDF ROD specifies that expansion of the facility would be authorized as-needed through the ROD amendment process. Based on estimated remediation waste volumes presented in the ERDF ROD, additional disposal cells were anticipated. This Amendment authorizes two additional ERDF cells to be constructed and operated for disposal of Hanford Site re-mediation waste. The Phase II construction shall be located entirely within the 4.1 square kilometer (1.6 square miles) area selected for ERDF, as defined in the ERDF ROD.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Waste disposal, Hanford Reservation, Polychlorinated biphenyls, Radioisotopes, Pesticides, Metals, Asbestos, Waste treatment, Containers, Remedial actin, Washington, "Record of Decision Amendment, Benton County(Washington), Volatile organic compounds, Combourds across the service of the country emivolatile organic compounds, Cleanup operations.

PB97-963156REB PC A08/MF A02
Superfund Record of Decision Amendment (EPA
Region 4): Artington Blending and Packaging, Arlington, TN., July 24, 1997.
Errvironmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 132p, EPA/541/R-97/183.
See also PB92-964014.
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This decision document describes a fundamental change to the ground-water restoration approach presented in the June 1991 Record of Decision (ROD) for the Affington Blending and Packaging Site (Site). As the result of information developed since the original ROD was finalized, EPA Region 4 has decided to emrout was inranzed, EPA Region 4 has decided to em-ploy monitored natural attenuation as the new Selected Remedy. Site-specific characterization data indicated that shallow aquifer ground-water plumes flowing be-neath the downgradient of the Site do not pose a realistic threat to human health or the environment.

Keywords: "Superfund, "Hazadous materials, "Waste management, Pesticides, Endrin, Pentachlorophenol, Ground water, Aquifers, Plumes, Site characterization, Tennessee, "Record of Decision Amendment, "First Remedial Action, Arlington(Tennessee), Shelby County(Tennessee), Volatile organic compounds, Natural attenuation.

PB97-963157REB PC A06/MF A01 PB97-96315/REB PC A06/MF A01
Superfund Record of Decision Amendment (EPA
Rgion 4): Coleman-Evand Wood Preserving Co.,
Whitehouse, FL., September 25, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 84p, EPA/541/R-97/184.
See also PB87-188843 and PB91-921560.

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This decision document represents an amendment to the selected remedial action for the Coleman-Evans Wood preserving Site (Site) in Whitehouse, Florida. This amendment is necessary because during design of the remedy that was selected in the 1990 Amended Record of Decision, dioxin was discovered at the Site as a new contaminant of concern. This document selects a new interim remedy to address an estimated 45,000 cubic yards of pentachlorophenol (PCP) and dioxin-contaminated source material (i.e., soil, sediment, and debris) and expands the scope of the groundwater remedy to permanently address PCP-, and potentially dioxin-, contaminated groundwater in the upper surficial aquifer.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, *Water pollution control, Pentachlorophenol, Dioxin, Debris, Soil contamination, Sediments, Ground water, Aquifers, Soil treatment, Water treatment, Florida, *Record of Decision Amendment, *First Remedial Action, Whitehouse(Florida), Duval County(Florida), Cleanup

PB97-963159REB PC A05/MF A01 Superfund Record of Decision Amendment (EPA Region 4): Munisport Landfill, North Miami, FL., September 5, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 62p, EPA/541/R-97/187.

See also PB91-921525.

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This decision document represents an amendment to the Record of Decision (ROD) formerly issued by the United States Environmental Protection Agency on July 26, 1990. This amendment provides for no further remedial action under CERCLA.

Keywords: "Superfund, "Hazardous materials, "Waste management, Landfills, Ammonia, Aquatic biology, Mangrove swamps, Water quality, Florida, "Record of Decision Amendment, "First Remedial Action, North Miami(Florida), Dade County(Florida).

PB97-963701REB PC A06/MF A01
Superfund Record of Decision (EPA Region 1):
Cheshire Groundwater Contamination, Cheshire,
CT., December 31, 1996.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 96p, EPA/541/R-97/001.
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This decision document presents the selected No Action decision for the Chesire Ground Water Contamina-tion Site (the 'Site'), located in Chesire, Connecticut. EPA has determined that its response at this site is complete and no remedial action is necessary to ensure protection of human health and the environment.

Keywords: "Superfund, "Hazardous materials, "Waste management, Ground water, Remedial action, Connecticut, "Record of Decision, Cheshire(Connecticut), New Haven County(Connecticut), Volatile organic compounds.

PC A11/MF A03
Superfund Record of Decision (EPA Region 1):
Loring Air Force Base, Operable Unit 13, Limestone, ME., June 16, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 212p, EPA/541/R-97/002.
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it card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

The former Loring Air Force Base (LAFB), in north-eastern Maine, is bordered on the south and east by the Town of Limestone, on the north by the towns of Caswell and Connor, and on the west by the City of Caribou. This Record of Decision (ROD) relates to OU 13, the basewide surface water and sediment operable

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Air Force facilities, Pesticides, Barium, Metals, Surface waters, Sediments, Installation restoration, Remedial action, Maine, *Record of Decision, Loring Air Force Base, Limestone(Maine), Aroostook County(Maine), Volatile organic compounds, Semivolatile organic compounds, Cleanup operations.

PB97-963707REB PC A08/MF A02 Superfund Record of Decision (EPA Region 1): Fort Devens-Sudbury Training Annex (Areas of Contamination A4, A7, and A9), Middlesex County, MA., September 30, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 150p, EPA/541/R-97/160.

See also PB96-963701.

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The U.S. Army Sudbury Annex (the Annex) is a National Priorities List (NPL) site under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). This Record of Decision addresses past releases of contaminants to all media at Area of Contamination (AOC) A4-Waste Dump, and past releases to groundwater at AOC A7-Old Gravel Pit Lanfill and AOC A9-Petroleum, Oil, and Lubricant (POL) Rury Area (POL) Burn Area.

Keywords: "Superfund, "Hazardous materials, "Waste Reywords: Superfund, Hazaroous materials, Waste management, Army facilities, Petroleum products, Oils, Lubricants, Hydrocarbons, Metals, Soils, Ground water, Instillation restoration, Remedial action, Massachusetts, *Record of Decision, Fort Devens, Sudbury Training Annex, Middlesex County (Massachusetts).

Superfund Record of Decision (EPA Region 1): Gallup's Quarry Superfund Site, Plainfield, CT., September 30, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Jan 98, 152p, EPA/541/R-97/161.

See also PB91-173492.

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The Gallup's Quarry Superfund Site is located at 86 Tarbox Road, in the Town of Plainfield, Windham County, Connecticut. The selected remedy was developed by combining components of different source open by combining components of cultilaters source control and management of migration alternatives to obtain a comprehensive approach for addressing Site contamination. In summary the remedy calls for natural attenuation of contiminants in soil and groundwater, a long-term sampling and analysis program, and institu-tional controls to restrict Site use.

Keywords: "Superfund, "Hazardous materials, "Waste management, Metals, Polychlorinated biphenyls, Pesticides, Ground water, Soil contamination, Restrictions, Sampling, Remedial action, Connecticut, "Record of Decision, Plainfield(Connecticut), Windham County(Connecticut), Volatile organic compounds, Semivolatile organic compounds, Natural attenuation.

PB97-963710REB PC A13/MF A03 Superfund Record of Decison (EPA Region 1): Pease Air Force Base Brooks/Ditches Operable Unit, Portsmouth/Newington, NH., September 30, 1997.

1997.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jan 98, 261p, EPA/541/R-97/163.
See also PB95-963711.
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This Record of Decision (ROD) presents a selected remedial action designed to protect human and ecologi-cal receptors in various brooks and ditches at Pease AFB, NH. The Pease AFB brooks and ditches included in this document are: Flagstone Brook (Zone 1), Pauls Brook (Zone 1), McIntyre Brook (Zone 3), and Lower Newfields Ditch (Zone 3).

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, Air Force facilities, Metals, Polycyclic aromatic hydrocarbons, Pesticides, Bottom sediments, Excavation, Waste treatment, Pauls Brook, McIntyre Brook, Sedimentation, Installation restoration, Remedial action, New Hampshire, *Record of Decision, Pease Air Force Base, Rockingham County(New Hampshire), Semivolatile organic compounds, Cleanup operations.

DR97_963820DER PB97-963820REB PC A99/MF A06 Superfund Record of Decision (EPA Region 2): Grand Street Mercury Site, Hoboken, NJ., September 30, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 668p, EPA/541/R-97/166.

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This Record of Decision presents the selected remedial action for the Grand Street Mercury Site. The major components of the selected remedy include: per-manent relocation of the former residents of the Site; continuation of temporary relocation of the former residents until permanent relocation has been implemented; historic preservation mitigation measures for the buildings at the Site, as appropriate; gross mercury decontamination of the buildings at the Site including recovery of available mercury, whenever possible; identification and abatement of firable asbestos in the buildings at the Site; removal and recovery of reusable fixtures, appliances, and recyclable scrap metal and other building components; demolition of the two build-ings at the Site using measures to minimize releases of mercury into the environment; removal and off-site dis-posal of all demolition debris at EPA-approved facilities; sampling of soils at the Site; excavation and offtes; sampling or sols at the Site; excavation and off-site disposal of contaminated soils at EPA-approved facilities; sampling of soils at off-site adjacent loca-tions; sampling of groundwater at the Site; and assess-ment of off-site soil and groundwater data to evaluate the need for future remedial action.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Land pollution control, Buildings, Mercury(Metal), Asbestos, Demolition, Recovery, Removal, Decontamination, Soil contamination, Excavation, Ground water, Water pollution monitoring, Envi-ronmental monitoring, New Jersey, "Record of Deci-sion, "First Remedial Action, Hoboken(New Jersey), Hudson County(New Jersey), Cleanup operations.

PB97-963903REB PC A08/MF A02 Superfund Record of Decision (EPA Region 3): Berks Landfill, Spring Townshop, PA., July 22, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Nov 97, 136p, EPA/541/R-97/058.

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This decision document presents the final selected re-medial action for the Berks Landfill Superfund Site. This selected remedy addresses on-site ground water contamination with natural containment through institutional controls; natural attenuation and existing site specific hydrogeologic conditions in conjunction with long term monitoring; continued existing leachage management system repair, operation and maintenance; and repairs to the existing landfill caps.

Keywords: *Superfund, *Hazardous materials, *Waste Reywords: Superfund, 'Hazarroous materials, 'Waste management, Landfills, Polychorinated biphenyls, Metals, Capping, Maintenance, Repairs, Leachate, Ground water, Water pollution monitoring, Restrictions, Site characterization, Remedial action, Pennsylvania, 'Record of Decision, Spring Township(Pennsylvania), Berks County(Pennsylvania), Volatile organic compounds, Semivolatile organic compounds.

PB97-963916REB PC A04/MF A01 Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, Warminster Township, PA., September 30,

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 46p, EPA/541/R-97/178. See also PB95-963926.

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This Record of Decision (ROD) presents a selected interim remedial action for Operable Unit Four (OU-4) at the former Naval Air Development Center in Warminister Township, Bucks County, Pennsylvania.

The selected interim remedy for OU-4 is the foruth remedial action addressing the Site. OU-4 consists of contaminated groundwater underlying are D at the

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Naval shore facilities, Solvents, Heavy metals, Paints, Polycyclic aromatic hydrocarbons, Sewage sludge, Waste oils, Debris, Ground water, Aquifers, Water wells, Water supply, Extraction, Pumping, Water treatment, Discharge(Water), Water pollution monitoring, Restrictions, Pennsylvania, "Record of Decision, "Fourth Remedial Action, Naval Air Development Center, Warmister Town-Keywords: *Superfund, *Hazardous materials, *Water Center, Warmister Town-Bucks County(Pennsylvania), ship(Pennsylvania), Cleanup operations.

PB97-964027REB

Superfund Record of Decision (EPA Region 4):
Pensacola Naval Air Station, Operable Unit 10,
Pensacola, FL., September 15, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
May 98, 126p, EPA/541/R-97/209.
See also PB95-964025.
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A record of decision has been prepared from the remedial investigation (RI) report, focused feasibility sutdy (FFS) report, and proposed remedia action plan for Operable Unit (OU) 10 at the Naval Air Station (NAS) Pensacola. The purpose of this Record of Decision is to describe the alternative that the U.S. Navy has selected to address potential groundwater and oil contamination onsite. The final remedy combines two components of the preferred alternative (e.g., leachability study on Areas B-D with excavation as a contingency and groundwater treatment under RCRA) contingency and groundwater treatment under RCRA) and a component of a different alternative (e.g., exca-vation of Area A) presented in the FS report and pro-posed plan. Monitoring will verify compliance with per-formance standards contained in this ROD. This alternative will be protective, cost-effective and will attain all federal and state requirements. The groundwater monitoring program will continue until a five-year review concludes that the alternative has achieved the performance standards and remains protective of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Water Keywords: "Superfund, "Hazardous materials, "Water pollution control, Naval air stations, Leachage, Ground water, Soil contamination, Water treatment, Sampling, Water pollution monitoring, Environmental monitoring, Restrictions, Remedial action, Florida, "Record of Decision, Pensacola Naval Air Station, Pensacola(Florida), Escambia County(Florida), Cleanup operations

PB97-964101REB PC A08/MF A02
Superfund Record of Decision (EPA Region 5):
Reilly Tar and Chemical Company Site, (Dover
Plant), Dover, OH., March 31, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 136p, EPA/541/R-97/028.
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it card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This decision document represents the selected final remedial action for the Reilly Tar and Chemical Company site. The selected remedy, Alternative 3, in-cludes: institutional controls to completely restrict the use of groundwater on-site and to restrict the property to industrial/commercial use; excavation and off-site thermal treatment of drainage ditch and river sedi-ments, surface soils and impacted perched zone mate-rial from the collection trench installation contaminated rial from the collection trench installation contaminated with greater than 100 ppm Benzo(a)Pyrene-Total Equivalent ('B(a)P-Te'), excavation and on-site disposal of surface water drainage ditch and river sediments, surface soils and impacted perched zone material contaminated with less than 100 ppm B(a)P-TE, and greater than 5 ppm B(a)P-TE; construction of an Ohio Subtitle D Solid Waste Cover over on-site disposed materials; a soil cover over the remainder of the site; off-site disposal of solidified tary materials or resite; off-site disposal of solidifed tarry materials, or recycle of tarry materials as a fuel or feedstock; hydraulic control and collection of perched ground water; natural attentuation/long-term monitoring of shallow ground

water; and samling and analysis of sediments in the river to monitor ecological risk at aquatic species.

Keywords: "Superfund, "Hazardous materials, "Land Keywords: "Superfund, "Hazardous materials, "Land pollution control, Polycyclic aromatic hydrocarbons, Metals, Phenols, Soil contamination, Sediments, Excavation, Soil treatment, Capping, Ground water, Water pollution monitoring, Environmental monitoring, Restrictions, Remedial action, Ohio, "Record of Decision, Dover(Ohio), Tuscarawas County(Ohio), Volatile organic compounds, Semivolatile organic compounds, Natural attenuation, Cleanup operations.

PC A06/MF A01 PR97-964102REB PB97-964102REB PC A06/MF A01
Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Mt., February 5, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 82p. EPA/541/R-97/029.

See also PB92-964103.

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The Organic Chemicals Inc. (OCI) property is located at 3291 Chicago Drive, S.W., in the city of Grandville, Kent County, Michigan. A Preliminary Assessment (PA) for the Site was completed by EPA in 1983. The PA documented potential groundwater contamination from the solvent-contaminated seepage lagoon. Soil from the solvent-contaminated seepage tagoon. Soil beneath this pond were also found to be contaminated. A potential for drinking water contamination and endangerment of flora and fauna in nearby potential wetlands was indicated in the PA. Analyses taken from solid waste storage units (rolloffs and 55 gallon drums) located at the Site revealed the presence of various contaminants including methylene chloride, toluene, contaminants including methylene chloride, toluene, ethylbenzene, xylenes and arochlor 1242 polychlorinated bi-phenyls(PCBs). Analyses of soil samples taken from the vicinity of the solid waste storage units revealed the presence of methylene chloride, toluene, xylenes, 1,1,1-trichlorocethne, trichlorocethne, tetrachlorocethene, choroform, 1,1-dichlorocethene, 1,2-dichlorocethene, and Arochlor 1242 (PCBs). Site 3 of OU NO. 3, also known as the Walton Walker Property, encompasses approximately 130 acres of privately-owned property, where three (3) separate municipal landfills were operated by the City of Dallas from the mid-1960s through the later 1970s and early 1980s. The major components of the selected remedy includes: excavation and removal of stag, battery chips, metals contaminated soils and sediments exceeding cleanup goals (up to two feet); off-site disposal of excavated material in an appropriate landfill; no action of the Ground Water Portion, and containment (protective cap) of portions of the landfill where there is exposed cap) of portions of the landfill where there is exposed stag, battery chips, and metals-contaminated soil exceeding cleanup goals.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Polychlorinated biphenyls, Chemical spills, Fires, Storage tanks, Solvents, Soil contamination, Remedial action, Michigan, "Record of Decision Amendment, Grandville(Michigan), Kent County(Michigan), Volatile organic compounds, Semivolatile organic compounds, Cleanup operations.

PB97-964204REB PC A12/MF A03

PB97-964204REB PC A12/MF A03
Superfund Record of Decision (EPA Region 6):
RSR Corp., Operable Unit 3, Dallas, TX., September 30, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 240p, EPA/541/R-97/124.
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Site 3 of OU NO. 3, also known as the Walton Walker Site 3 of OU NO. 3, also known as the Walton Walker Property, encompasses approximately 130 acres of privately-owned property, where three (3) separate municipal landfills were operated by the City of Dalfas from the mid-1960s through the later 1970s and early 1980s. The major components of the selected remedy includes: excavation and removal of slag, battery chips, metals contaminated soils and sediments exceeding cleanup goals (up to two feet); off-site disposal of excavated material in an appropriate landfill; no action of the Ground Water Portion; and containment iprotective cap) of portions of the landfill where there is exposed slag, battery chips, and metals-contaminated soil exceeding cleanup goals.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Waste disposal, Heavy metals, Arsenic, Antimony, Lead(Metal)Slags, Landfills, Soil contamination, Excavation, Removal, Containment, Capping, Remedial action, Texas, "Record of Decision Amendment, Dallas(Texas), Dallas County(Texas), Cleanup operations.

PB97-964403REB PC A04/MF A01 PB97-964403REB PC A04/MF A01 Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 8, Cgehyenne, WY., November 21, 1997. Erwironmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 48p, EPA/541/R-97/193. See also PB97-964404.

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The selected interim action (remedy) for Operable Unit 8 (OU8), Landfill 5A (LF5A), at F. E. Warren Air Force Base(Base), in Cheyenne, Wyoming includes capping and an active gas venting system.

Keywords: *Superfund, *Hazardous materials, *Land Keywords: "Superfund, "Hazzardous materials, "Land pollution control, Air Force facilities, Landfills, Methane, Capping, Venting, Soil gases, Erosion control, Surface drainage, Environmental monitoring, Ground water, Water pollution monitoring, Wyoming, "Record of Decision, "Fifth Remedial Action, F E Warren Air Force Base, Cheyenne(Wyoming), Laramie(Myoming), Volatile organic compounds, Cleanup

PC A11/MF A03
Superfund Record of Decision (EPA Region 9):
Moffett Naval Air Station, Operable Unit 1, Sunnyvale, CA., August 14, 1997.
Environmental Decision

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 206p, EPA/541/R-97/129. See also PB95-964502.

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This decision document presents the selected remedial action for Operable Unit 1 (OU1) at Moffett Field. (OU1 consists of two landfilts Sites 1 and 2); the selected remedial action for Site 2 is consolidation of waste from Site 2 to Site 1 and groundwater monitoring and for Site 1 is capping, gas and groundwater collection trenches, and gas and groundwater monitoring.

Keywords: "Superfund, "Hazardous materials, "Waste management, Naval air stations, Soil gases, Ground water, Capping, Drainage systems, Water pollution monitoring, Installation restoration, Site characterization, Remedial action, California, "Records of Decision, Moffett Naval Air Station, Sunnyvale(California), Mountain View(California), Santa Clara County(California), Volatile organic compounds.

PC A18/MF A04 PB97-964508REB PB97-964508REB PC A18/MF A04
Superfund Record of Decision (EPA Region 9):
Barstow Marine Corps Logistics Base, Operable
Units 3 and 4, Barstow, CA., June 3, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 390p, EPA/541/R-97/130.

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MCLB Barstow (also referred to as the Base) is within the central Mojave Desert in San Bernardino County, California. This report provides a brief overview of the assessments conducted at CAOC 20, analytical results from soil sampling, and a genral summary of water quality risk and uncertainties as related to water quality protection. Potential sources of contamination at this CAOC include the one low-level radiological disposal well and 31 nonradiological waste disposal wells.

Keywords: "Superfund, "Hazardous materials, "Waste management, Marine Corps facilities, Metals, Pes-

ticides, Soils, Site characterization, Remedial action, California, *Record of Decision, Barstow Marine Corps Logistics Base, Barstow(California), San Bernardino County(California), Volatile organic compounds, Semivolatile organic compounds.

PB97-964509REB PC A15/MF A03
Superfund Record of Decision (EPA Region 9):
Del Amo Facility Waste Pits Operable Unit, Los
Angeles, CA., September 5, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 306p, EPA/541/R-97/131.
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This decision document presents the selected remedial action for the Del Amo Waste Pits Operatible Unit (Waste Pits OU) of the Proposed Del Amo Superfund Site (Del Amo Site), in Los Angeles, California. The remedy selected in this ROD addresses the principal threat remaining at the Waste Pits Area by selecting actions that will prevent future releases of hazardous substances from the remaining waste materials present in the waste pits, either upward to the surface, downward into the groundwater, or laterally out from the pits, that would create unacceptable risks to public health or welfare or the environment. The ROD also selects measures intended to prevent additional contamination of groundwater beneath the Waste Pits Area by selecting response actions to clean-up hazard-ous substance contamination that had been previously releases from the waste pits and is currently present in the vadose zone soils.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Waste disposal, Capping, Drainage systems, Operation and maintenance, Environmental monitoring, Water pollution abatement, Restriction, Remedial action, California, "Record of Decision Amendment, Los Angeles (California), Los Angeles County(California), Soil vapor extraction.

PB97-964510REB PC A07/MF A02 Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30,

1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 104p, EPA/541/R-97/132.
See also PB94-964511.
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This decision document presents the selected interim remedial action for control of releases of hazardous substances from widespread area sources in the Slickrock Creek watershed at the Iron Mountain Mine Site. This interim action addresses the most significant source of currently uncontrolled IMM AMD-the Slickrock Creek area sources entering the reach of Slickrock Creek directly below the most heavily disturbed mining area.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Water pollution control, Mine wastes, Acid mine drainage, Heavy metals, Acidity, Seepage, Copper, Arsenic, Cadmium, Zinc, Surface water, Silckrock Creek, Spring Creek, Ground water, Remedial action, California, "Record of Decison, IMM(Iron Mountain Mine), Redding(California), Cleanup operations.

PB97-964512REB PC A12/MF A03 PB97-964512REB PC A12/MF A03
Superfund Record of Decision (EPA Region 9):
Castle Air Force Base, Merced, CA., May 21, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 236p, EPA/541/R-97/134.
See also PB94-964506 and PB92-964508.
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This decision document presents the remedial actions (RAs) selected for the comprehensive cleanup of groundwater at the formerly active Castle Air Force Base (AFB), Merced County, California. The purpose of this Record of Decision (ROD) is to decide the ap-

propriate level of groundwater remediation necessary to protect human health and the environment, and to determine what requirements are applicable or rel evant and appropriate requirements (ARARs) based on the groundwater beneficial use designation and site-specific conditions.

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Air force facilities, Hydrocarbons, Metals, Ground water, Plumes, Aquifers, Remedial action, California, "Record of Decision, Castle Air Force Base, Merced County(California), Volatile organic compounds. Cleanup operations.

PB97-964513REB PC A10/MF A02 Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Units 2A and 3A (No Action Sites), El Toro, CA., September 29, 1997.

29, 1997.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Jan 98, 176p, EPA/541/R-97/135.

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This decision document presents the selected remedial action for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 at MCAS El Toro in Orange County, California. The selected remedy for Sites, 4, 6, 9, 19, 13, 15, 19, 20, 21, 22, and 25 is no action.

Keywords: "Superfund, "Hazardous materials, "Waste management, Marine Corps facilities, Soils, Site characterization, Remedial action, California, "Records of Decision, El Toro Marine Corps Air Station, El Toro(California), Orange County(California), Volatile organic compounds.

PB97-964514REB PC A11/MF A03
Superfund Record of Decision (EPA Region 9): EI
Toro Marine Corps Air Station, Operable Unit 2A
(Site 24-VOC Source Area Vadose Zone), El Toro,
CA., September 29, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Mar 98, 222p, EPA/541/R-97/136.
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This Interim Record of Decision (ROD) presents the selected remedial action for vadose zone soil at Site 24 at Marine Corps Air Station (MACAS) El Toro, located in El Toro, California. The selected remedy for remediation of soil at Site 24 is soil vapor extraction (SVE), the U.S. EPA presumptive remedy for VOC-contaminated soil. The process uses a vacuum to pull VOC-contaminated vapors from the soil through SVE wells.

Keywords: *Superfund, *Hazardous materials, *Land Reywords: "Superfund, "Hazzaroous materials, "Land pollution control, Marine corps facilities, Soil contamination, Soil gases, Soil treatment, Sampling, Environmental monitoring, Remedial action, California, "Record of Decision, El Toro Mainre Corps Air Station, El Toro(California), Orange County(California), Volatile organic compounds, Vadose zone, Soil vapor extraction, Cleanup operations.

PB97-964516REB PC A15/MF A03
Superfund Record of Decision (EPA Region 9):
Camp Pendleton Marine Coprs Base, Operable
Unit 2, San Diego, CA., September 30, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 324p, EPA/541/R-97/191.
See also PB96-964501.
Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image. PB97-964516REB PC A15/MF A03

MCB Camp Pendleton is located along the Pacific coast, about halfway between Los Angeles and San Diego. This decision document sets forth the basis for the no remedial action decisions for Site 2B, 3, 5, 6, 8A, 19, 20, 22, 28, 31, 43, 44, and 45.

Keywords: "Superfund, "Hazardous materials, "Waste management, Marine corps facilities, Petroleum products, Metals, Pesticides, Herbicides, Sediments, Soils,

Ground water, Surface waters, Landfills, Water pollution monitoring, Installation restoration, Site characterization, Remedial action, California, *Record of Decision, Camp Pendleton Marine Corps Base, San Diego County(California).

PB97-964601REB
PC A06/MF A01
Superfund Record of Decision (EPA Region 10):
Harbor Island (Lead), The Shipyard Sediment Operable Unit, Seattle, WA., November 27, 1996.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 88p, EPA/541/R-97/045.
See also PB96-963123.
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The Shipyard Sediment Operable Unit (OU) consists of nearshore sediments at the Todd and Lockheed Shipyards, which contain shipyard hazardous substances and wastes. The Shipyard Sediment OU is within the and wastes. The Shipyard Sediment OU is within the Harbor Island Superfund Site (Site), in Seattle, King County, Washington. The Site was listed on the National Priorities List (NPL) in 1983, due to the release of lead from a secondary lead smelter on the island, as well as the release of other hazardous substances from other industrial operations on the island.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Waste disposal, Harbor Island, Heavy metals, Polycyclic aromatic hydrocarbons, Tin, Lead(Metal), Polychlorinated biphenyls, Shipyards Sediments, Remedial action, Washington, "Record of Decision Amendment, Seattle(Washington), King County(Washington), Cleanup operations.

PB97-964602REB PC A08/MF A02
Superfund Record of Decision (EPA Region 10):
Puget Sound Naval Shipyard Complex, (Operable
Unit A) (aka: Bremerton Naval Complex), Bremerton, WA., January 24, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 148p, EPA/541/R-97/046.
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This decision document presents the selected remedial action for Operable Unit A at Puget Sound Naval Shipyard (PSNS). The major components of the remedial action for OU A are: upgrade the pavement cap by applications of new asphalt and a surface sealant over Zone II of the site (approximately 3.7 acres); install approximately 1,400 linear feet of erosion protection along the perimter of Zone II; Implement, institutional controls that include access restrictions, restrictions on residential use, restrictions on fish and shellfish harvesting, and a Bremerton Naval Complex-wide soil management plan; address the requirements for continued operation, inspection, and maintenance of the pavement cap and erosion protection; and make en-hancements to terrestrial and marine habitats.

Keywords: "Superfund, "Hazardous materials, "Waste management, Shipyards, Naval facilities, Capping, Sealing, Erosion control, Habitat improvement, Ground water, Water pollution monitoring, Restrictions, Site characterization, Remedial action, Washington, "Record of Decision, Puget Sound Naval Shipyard Complex, Bremerton Naval Complex, Bremerton(Washington), Kitsap County(Washington).

PE97-964603REB
PC A07/MF A02
Superfund Record of Decision (EPA Region 10):
Puget Sound Naval Shipyard Complex, (Operable
Unit NSC) (aka: Bremerton Naval Complex), Bremerton, WA., December 13, 1996.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 124p, EPA/541/R-97/047.
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This decision document presents the selected action for Operable Unit NSC (OU NSC) at the Bremerton Naval Complex in Bremerton, Washington. The selected remedy for OU NSC includes: controlling access

to the Bremerton Naval Complex through security measures such as fences and signs; establishing administrative measures to prohibit use of groundwater from site; implementing deed restrictions to limit future usage of the site; developing a management exca-vation plan to limit potential contact with, and assure appropriate handling and disposal of, soils excavated during future excavation connected with any construction activity at the site; upgrading site paving to reduce the possibility of contact with contaminated soil and limit the potential for precipitation to transport contami-nants from soil to the groundwater; collecting and disposing of sediments and debris accumulated in stormdrain lines serving OU NSC; and conducting en-vironmental monitoring to detect any change in the quality of groundwater at the site.

Keywords: "Superfund, "Hazadous materials, "Waste management, Shipyards, Naval facilities, Debris, Pesmanagement, Shipyards, Naval facilities, Deons, Pes-ticides, Polychlorinated biphenyls, Hydrocarbons, Met-als, Sediments, Removal, Environmental monitoring, Site characterization, Restrictions, Remedial action, Washington, "Record of Decision, Puget Sound Naval Shipyard Complex, Bremerton Naval Complex, Brem-erton(Washington), Kitsap County(Washington), Vola-tile organic compounds, Semivolatile organic com-

PC A06/MF A01
Superfund Record of Decision (EPA Region 10):
Hanford 200 Area (USDOE), (200-UP-1 Operable
Unit), Benton County, WA., February 11, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 92p, EPA/541/R-97/048.
See also PB95-964609.
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This decision document presents the selected Interim Remedial Action (IRA) for the U.S. Department of Energy (U.S. DOE) Hanford 200-UP-1 Operable Unit (OU), 200 Area, Hanford Site, Benton County, Washington. The selected remedy consists of pumping the highest concentration zone of the contaminated groundwater plume at 200-UP-1 and treatment using the existing Effluent Treatment Facility (ETF) located in the 200 East Area. The selected remedy is intended to reduce contaminant mass within the plume and minimize migration of uranium and technetium-99 from the 200 West Area. The selected remedy will remove and treat these two contaminants of concern, in addition to the specific co-contaminants of nitrate and carbon tetrachloride which exist within the groundwater.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Hanford Reservation, Uranium, Tech-netium 99, Nitrates, Carbon tetrachloride, Ground water, Aquifers, Plumes, Pumping, Water treatment, Remedial action, Washington, *Record of Decision, Benton County(Washington), Cleanup operations.

PB97-964605REB PC A07/MF A02 Superfund Record of Decision (EPA Region 10): Monsanto Chemical Co. (Soda Springs), Soda Springs, ID., April 30, 1997. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Nov 97, 114p. EPA/541/R-97/049. Paper copy available as an opposite the state of the state

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The Monsanto Chemical Company Superfund Site is located in Caribou County, Idaho, approximately one mile north of the City of Soda Springs. After screening using conservative human health and ecological using conservative human heart and excoording screening values, the contaminants of potential concern in soils and on-Plant source piles include, radio-nuclides (radium-226, lead-210, and uranium-238) and chemicals (arsenic, beryllium, selenium and zinc). The groundwater contaminants of potential concern include those substances detected at concentrations above primary MCLs, i.e., cadmium, fluoride, nitrate, and selenium, and manganese, which is present above a secondary MCLs.

Keywords: *Superfund, *Hazardous materials, *Waste management, Metals, Arsenic, Selenium, Beryllium, Lead 210, Radium 226, Uranium 238, Radioisotopes, Cadmium, Ground water, Soil contamination, Water

pollution monitoring, Site characterization, Remedial action, Idaho, "Record of Decision, Soda Springs(Idaho), Caribou County(Idaho), Fugitive dust.

PB97-964606REB PC A05/MF A01
Superfund Record of Decision (EPA Region 10):
Elmendorf Air Force Base, Operable Unit 3, Greater Anchorage Borough, AK., December 5, 1998.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 74p, EPA/541/R-97/050.
See also PB95-964607.
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This Record of Decision (ROD) presents the selected remedial action for OU 3 at Elmendorf AFB. The selected remedy was chosen from many alternatives as the best method of addressing the PCB contaminated soil at site SS21. The selected remedy is excavation and off-site disposal of soil at SS21 containing PCBs oreater than 5 pom.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Land pollution control, Air Force facilities, Polychlorinated biphenyls, Soil contamination, Excavation, Sampling, Environmental monitoring, Restricvaluri, Samplang, Environmental infontoring, restrictions, Installation restoration, Remedial action, Alaska, "Record of Decision, Elmendorf Air Force Base, Anchorage(Alaska), South Central Region(Alaska), Cleanup operations.

PB97-964607REB PC A12/MF A03 PB97-964607REB PC A12/MF A03
Superfund Record of Decision (EPA Region 10):
Elmendorf Air Force Base, Operable Unit 6 and
Source Area SS 19, Greater Anchorage Borough,
AK, December 4, 1996.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 238p, EPA/541/R-97/051.

Nov 97, 23 op. EPW3417N-97/031.
See also PB95-964603.
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This Record of Decision (ROD) presents the selected remedial action for OU 6 at Elemendorf AFB. Specific hazardous substances include constituents such as benzene, toluene, trichloroethene, and tetrachioroethane. The selected remedies were chosen from many alternatives as the best methods of ad-dressing contaminated groundwater and soil within the various source areas in OU 6. The selected remedies address the associated risks by a combination of ac-tions to reduce contamination below cleanup levels for OU 6 established in this ROD and institutional controls to prevent exposure to contamination above those

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Water pollution control, Air Force facilities, Fuels, Petroleum products, Soil contamination, Ground water, Restrictions, Remedial action, Installation restoration, Alaska, "Record of Decision, Elmended Air Enter Decision, Santo, Carendon (Alaska, "Control (Alaska, "Control (Alaska, Santo, Carendon), South Control (Alaska, Santo, Carendon), Santo, Carendon, Alaska, "Control (Alaska, Santo, Carendon), Santo, Carendon, Santo, Santo, Carendon, Santo, Sant dorf Air Force Base, Anchorage(Alaska), South Central Region(Alaska), Volatile organic compounds, Cleanup operations

Supertund Record of Decision (EPA Region 10): Fort Walmwright, Operable Unit 1, Fairbanks North Star Borough, AK., June 27, 1997.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Nov 97, 160p, EPA/541/R-97/054.

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This Record of Decision (ROD) presents the selected remedial action for 801 Drum Burial Site Operable Unit 1 (OU-1) at Fort Wainwright in Fairbanks, Alaska. Pesticides and petroleum-related compounds are contaminants of concern in the soil; and benzene, pesticides, solvents, and other petroleum-related compounds are contaminants of concern of groundwater at the 801 Qrug Burial Site. This ROD addresses soil and groundwater contamination at OU-1.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Water pollution control, Army facili-ties, Pesticides, Benzene, Solvents, Petroleum prod-ucts, Soil contamination, Ground water, Alaska, 'Record of Decision, *Fourth Remedial Action, Fort Wainwright, Fairbanks(Alaska), North Star Borough(Alaska), Central Region(Alaska), Cleanup oper-

PC A10/MF A03
Superfund Record of Decision (EPA Region 10):
Fort Wainwright, Operable Unit 2, Fairbanks North
Star Borough, AK., March 31, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Nov 97, 196p, EPA/541/R-97/061.
See also PB96-964614.
Paper copy available as an opposite subsection.

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This Record of Decision (ROD) presents the selected Inis record of Decision (HOD) presents the selected remedial actions for Operable Unit 2 (OU-2) at Fort Wainwright in Fairbanks, Alaska. OU-2 originally consisted in eight source areas: the defense Reutilization and Marketing Office (DRMO) Yard, the Building 1168 Leach Well, the North Post Site, the 801 Drum Burial Site, the Engineers Park Drum Site, the Drum Site South of the Landfill, Building 3477, and the Tar Sites. The major components of the remedies at source areas are: in situ soil vapor extraction and air sparging of the groundwater to reduce volatile organic com-pounds to a level that meets state and federal MCLs; institutional controls that would include restrictions on groundwater well installations, site access restrictions, groundwater well installations, site access restrictions, and maintenance of fencing at the DRMO Yard until state and federal MCLs are met; additional institutional controls, including a limitation on refilling the DRMO Yard fire suppression water tank from the existing potable water supply well, until state and federal MCLs are met (except in emergency situations); and natural attenuation to attain Alaska Water Quality Standards after reaching state and federal MCLs.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Water pollution control, Army facilities, Benzene, Petroleum products, Soil contamination, Ground water, Soil treatment, Water treatment, Restrictions, Alaska, "Record of Decision, "Fifth Remedial Action, Fort Wainwright, Fairbanks(Alaska), North Star Borough(Alaska), Central Region(Alaska), Volatile organic compounds, Natural attenuation, Cleanup operations

PB97-964610REB PC A08/MF A02 Superfund Record of Decision (EPA Region 10): East Multnomah County Groundwater Contamina-tion, Operable Unit 1, Multnomah County, OR., December 31, 1996.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 132p, EPA/541/R-97/072. See also PB95-239570.

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The East Multinomah County (EMC) project area refers to all areas in the EMC project area where the Troutdale Sandstone Aquifer (TSA) contains concentrations of halogenated volatile organic compounds at concentrations requiring remediation. The selected remedial action for the Troudale Sandstone Aquifer (TSA) contaminant olympic includes: treatment of experimental plane. (TSA) contaminant plume includes: treatment of ex-tracted groundwater using air-stripping treatment tech-nology; discharge of treated groundwater to Fairview Lake and the Columbia Slough directly or via Multinomah County storm water drainage ways; abandonment of six private Sand and Gravel Aquifer (SGA) water supply wells located within the area of the TSA contaminant plume and a provision to replace the abandoned wells with an alternative source of water; institu-tional controls to restrict groundwater use of the TSA and SGA to prevent exposure to contaminated groundand scale to be event exposure to contain rated groundwater and the spread of groundwater monitoring to assess compliance with performance criteria established for the remedy; and hydraulic containment of those areas of the TSA for which it may be technically impractical to restor to MCL cleanup levels within 20 years.

Keywords: "Superfund, "Hazardous materials, "Water Reywords: "Superfund, "Hazardous materials, "Water pollution control, Plumes, Ground water, Aquifers, Extraction, Water treatment, Containment, Water wells, Water pollution monitoring, Restrictions, Remedial action, Oregon, "Record of Decision, Multnomah County(Oregon), Troutdale Sandstone, Volatile organic compounds, Cleanup operations.

PC A07/MF A02 PB97-964611REB PC A07/MF A02
Superfund Record of Decision (EPA Region 10):
East Multnomah County Ground Water Contamination, Operable Unit 2, Multnomah County, OR.,
December 31, 1996.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 1029, EPA/541/R-97/199. PB97-964611REB

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This document presents the selected remedial action for soil and shallow groundwater contamination within the Troutdale Gravel Aquifer (TGA) at the Cascade Corporation (Cascade) site, in Gresham, Oregon.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, *Water pollution control, Hydrocarbons, Solvents, Soil contamination, Ground water, Aquifers, Plumes, Soil treatment, Soil gases, Extraction, Water treatment, Restrictions, Remedial action, Oregon, *Record of Decision, Gresham(Oregon), Multnomah County(Oregon), Volatile organic compounds, Light nonaqueous phase liquids, Cleanup operations.

PB97-964612REB PC A09/MF A02
Superfund Record of Decision (EPA Region 10):
Boomsnub/Airco Site-Wide Ground Water Operable Unit, Vancouver, WA., September 29, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Apr 98, 152p, EPA/541/R-97/200.
See also PB95-249728.
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This decision document presents the selected interim This decision document presents the selected interim remedial action for the Boomsnub/Airco Superfund Site (the Site), located north of Vancouver in Hazel Dell, Washington. The selected remedy is to continue operation and maintenance of the existing groundwater for Clark County. The remedy includes: operation and maintenance (O & M) of the existing extraction and maintenance installation of additional montrolled and the least seates of the behavior and the controlled and the least seates of the behavior and the controlled and the least seates of the behavior and the controlled and the least seates of the behavior and the controlled and the least seates of the behavior and the controlled and the least seates of the behavior and the controlled and the least seates of the least itoring wells near the leading edge of the plume to de-termine the need for more extraction wells, and con-nection of additional wells to the extraction network, if necessary; upgrading some extraction wells and vaults as necessary to prevent infiltration of water during storm events; and acquisition or construction of office and storage space for the extraction/treatment and telemetry systems, new and used resin, as well as for tools, parts and equipment needed for O & M of the system.

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Chromium, Metalls, Ground water, Aquifers, Extraction, Water treatment, Water wells, Drainage systems, Water pollution monitoring, Remedial action, Washington, "Record of Decision, Vancouver(Washington), Clark County(Washington), Volatile organic compounds, Cleanup operations.

PR97-984813RFR PC ANT/ME AND PB97-964613REB PC A07/MF A02
Superfund Record of Decision (EPA Region 10):
Old Navy Dump Manchester Laboratory (USEPA/
NOAA), Manchester, WA., September 30, 1997.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Jan 98, 116p, EPA/541/R-97/201.

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This decision document presents the selected remedial action for the Old Navy Dump/Manchester Annex Superfund Site (Site) in Manchester, Washignton. The selected remedy is the only response action planned for the Site.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Land pollution control, Landfills, Dioxins, Polychlorinated biphenyls, Hydrocarbons, Metals, Soil contamination, Sediments, Clam Bay, Debris, Excavation, Backfilling, Shorelines, Capping, Drainage systems, Storage tanks, Underground storage, Restriction, Remedial action, Washington, "Record of Decision, Old Navy Dump, Manchester Laboratory, Manchester (Washington), Kitsap County (Washington), Volatile organic compounds, Semivolatile organic compounds, Cleanup operations.

PB97-964614REB PC A09/MF A02 Superfund Record of Decision (EPA Region 10): Fort Richardson (USArmy), Operable Units A and B, Anchorage, AK., September 15, 1997. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 98, 158p, EPA/541/R-97/202. See also PB96-195417. Paper copy available as an operation

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A remedy was chosen from many alternatives as the best means of addressing contaminated soil and groundwater at OU-B. The major components of the preferred remedy for OU-B are: high-vacuum extraction (HVE) to remove contaminated vapors and groundwater from the 'hot spot.' The 'hot spot' is defined as the subsurface area containing greater than 1.0 milligrams per liter of 1,1,2,2-tetrachloroethane in comunicater and/or free-phase sovients: an air strippin groundwater and/or free-phase sovients; an air strippin system to treat extracted grondwater to meed State of Alaska and federal maximum contaminant levels (MCLs) before being reinjected into the deep aquifer; institutional controls that will include restrictions on groundwater well installations, site access restrictions. and maintenance of fencing until state and federal MCLs for drinking water are met; natural attenuation of groundwater contamination in areas outside the 'hot spot; and long-term monitoring to assess whether groundwater contamination is approaching Eagle River and to ensure that contamination levels in the groundwater are decreasing through natural attenuation.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Water pollution control, Army facilities, Solvents, Hydrocarbons, Soil contamination, Soil gases, Ground water, Soil treatment, Extraction, Water treatment, Water pollution monitoring, Restrictions, Remedial action, Alaska, "Record of Decision, Fort Richardson, Anchorage(Alaska), South Central Region(Alaska), Volatile organic compounds, Tetrachloroethane, Natural attenuation, Cleanup operations

PB98-101967REB PC A99/MF A06
Health Effects Test Guidelines. OPPTS Series
870.1000 Acute Toxicity Testing: Background.
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Aug 98, 598p, EPA/712/C-98/189.
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(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Agency considers the evaluation of toxicity following short term exposure to a chemical to be an integral step in the assessment of its toxic potential under the regulatory framework of its pesticide and toxic substances programs. In the assessment and evaluation of the toxic characteristics of a substance, acute toxic characteristics of a substance, acute toxic characteristics. icity is generally performed by the probable route of ex-posure in order to provide information on health hazards likely to arise from short-term exposure by that route. For pesticides, the short-term toxicity testing battery consists of acute toxicity tests by the oral, dermal, tery consists of acute toxicity tests by the oral, dermal, and inhalation routes; skin and eye irritation testing and testing for dermal sensitization. Data from an acute study may serve as a basis for hazard categorization, labeling, or child-resistant packaging and may also serve to designate pesticides which may be applied only by certified applicators. It is also an initial step in establishing a dosage regimen in subchronic and other studies and may provide information on absorption and the mode of toxic action of a substance.

Keywords: *Health effects, *Acute exposure, *Testing, *Toxicity, *Toxic Substances Control Act, *Pesticides,

Registration, Sample preparation, Materials handling, Analytical methods, Rejection, Environmental exposure pathway, Dermal absorption, Oral intake, Inhalation, Irritation, Guidelines, "Federal Insecticide Funcicide and Rodenticide Act, Reregistration, OPPTS(Office of Prevention Pesticides and Toxic Substances) stances).

PB98-101975REB PC A03/MF A01 Spray Drift Test Guidelines. OPPTS 840.1000 Background for Pesticide Aerial Drift Evaluation. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Mar 98, 30p, EPA/712/C-98/319. Supersedes PB84-189216.

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The guidelines in this series deal with data submittal to support the registration of all outdoor use pesticides that are to be applied by aerial application methods (fixed- or rotary-wing), air carrier (mist blowers), overhead sprinkler irrigation devices, or other ground application equipment. Data required to evaluate pesticide spray drift may be derived from studies of droplet size spray will may be derived from studies of droplet size spectrum and spray drift field evaluations. These data can contribute to development of the overall exposure estimate for use in assessing the potential hazard of pesticides to humans, fish and wildlife, or plants.

Keywords: *Pesticides, *Application methods, *Drift, *Spraying, *Blowing, *Toxic Substances Control Act, *Testing, Environmental transport, Mist, Sprays, Droplets, Sprinklers, Irrigation systems, Environmental exposure, Environmental impacts, Guidelines, "Federal Insecticide Fungicide and Rodenticide Act, Insecticide Fungicide and Rodenticide Act, OPPTS(Office of Prevention Pesticides and Toxic Sub-

PB98-140379REB PC A03/MF A01
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Lessons Learned-Controlling VOCs from Three
Paint Booths at Marine Corps Depot Facilities.
Rept. for Oct 95-May 97.
Acurex Environmental Corp., Research Triangle Park,
NC.

NC. D. Proffitt, C. H. Darvin, and J. Ayer. Jun 97, 16p, EPA/

600/A-98/018.

Contract EPA-68-D4-0111

Presented at the Joint Depot Environmental Panel Workshop (6th), San Diego, CA., May 19-22, 1997. Prepared in cooperation with Air Quality Specialists, Newport Beach, CA. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

tion Prevention and Control DIV.

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The paper describes the demonstration of an advanced control technology cost reduction strategy at the U.S. Marine Corps maintenance facility in Barstow, CA. One drive-through truck booth was modified and two small-parts boothes were built to use the floor rate reduction strategy, partitioned recirculation.

Keywords: *Air pollution control equipment, Emissions, Air pollution abatement, Air circulation, Air flow, Flow rates, Painting, Lessons learned, Costs, Marine corps facilities, Supply depots, "Volatile organic compounds, "Paint booths, "Partitioned recirculation, Pollution pre-

PB98-142011REB PC A12/MF A03 PD88-142U11HEB PC A12/MF A03 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Results of a Pilot Field Study to Evaluate the Effectiveness of Cleaning Residential Heating and Air Conditioning Systems and the Impact on Indoor Air Quality and System Performance. Final rept. 1995-96.

Acurex Environmental Corp., Research Triangle Park,

R. Fortmann, C. Gentry, K. Foarde, and D. VanOsdell. Dec 97, 238p, EPA/600/R-97/137.

Contract EPA-68-D4-0005/2-030

Prepared in cooperation with Research Triangle Inst., Research Triangle Park, NC. Sponsored by Environ-mental Protection Agency, Research Triangle Park, mental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. and National Air Duct Cleaners Association, Washington, DC. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The report discusses and gives results of a pilot field study to evaluate the effectiveness of air duct cleaning (ADC) as a source removal technique in residential heating and air-conditioning (HAC) systems and its impact on airborne particle, fiber and bioaerosol conimpact on airborne particle, fiber and bioaerosol con-centrations. Data were also collected to assess the po-tential impact to cleaning on performance of the air handler and cooling system. Week-long studies at each home involved background air monitoring and sampling, cleaning of the HAC system, and post-clean-ing monitoring and sampling. Measurement param-eters included airborne particle, fiber, and fungi con-centrations; microbiological and dust deposition sam-pling in the sunply and return air dusts various system centrations; microbiological and dust deposition sam-pling in the supply and return air ducts; various system related parameters including air flow, static pressure, temperature, and relative humidity; and environmental parameters indoors and outdoors. Study results are presented on the effectiveness of ADC, its impact on selected indoor air quality parameters, and an assess-ment of its impact on system performance. Rec-ommendations are provided on future research needs.

Keywords: *Indoor air quality, *Residential buildings, *Heating equipment, *Air conditioning equipment, *Cleaning, *Effectiveness, Space HVAC systems, Heating systems, Cooling systems, Performance evaluation, Ducts, Air flow, Temperature, Relative humidity, Static pressure, Microorganism, Dust, Aerosols, Fig. 2014. bers, Particles.

PB98-142037REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. Fuel Cell Bus Demonstration in Mexico City. Final rept. Jun-Nov 97.

Ballard Power Systems, Inc., Burnaby (British Colum-

T. Gilchrist. Apr 98, 30p, EPA/600/R-98/039. Sponsored by Environmental Protection Agency, Re-search Triangle Park, NC. National Risk Management

Research Lab.
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The report discusses the performance of a full-size, The report discusses the performance of a full-size, zero-emission, Proton Exchange Membrane (PEM) fuel-cell-powered transit bus in the atmospheric environment of Mexico City. To address the air quality problems caused by vehicle emissions in Mexico City, a seminar on clean vehicles was held in the Mexico City area in June 1997. The seminar addressed the state of the art of several clean vehicle technologies, one of which involved PEM fuel cells.

Keywords: *Fuel cells, *Buses, *Air pollution abatement, *Demonstration programs, Vehicle air pollution, Low emission vehicles, Fleet management, Public transportation, Urban transportation, Performance evaluation, Meetings, *Mexico City(Mexico), Proton exchange membranes, Pollution prevention.

PB98-145311REB PC A11/MF A03 PB98-145311HEB PC A11/MF A03
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Demonstration of the Environmental and DemandSide Management Benefits of Grid-Connected
Photovoltaic Power Systems, 1994-1997. Final rept. Apr 94-Nov 97.

Ascension Technology, Inc., Lincoln Center, MA. D. L. Greenberg, E. C. Kern, M. C. Russell, and P. D. Kern, May 98, 206p, EPA/600/R-98-056, EPA/600/R-

Contract EPA-68-D3-0144

See also PB97-117618. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The report gives results of an investigation into the pollutant emission reduction and demand-side management potential of 13 photovoltaic (PV) systems that began operation between June 1994 and July 1996 invarious locations in the U.S. The report documents the project and gives results of analyses of each system's ability to offset emissions of sulfur clioxide, nitrogen oxability to offset emissions of sulfur dioxide, nitrogen oxides, and carbon dioxide, and to provide power during peak load hours for the host building and the participating utilities. The analyses indicate a broad range in emission offsets resulting from PV system operation due to variation in the solar resource available to each system and variation in the marginal emission rates of the perticipating utilities. Each system's ability to provide power during peak load periods is investigated using gross and net (of PV generation) load during curves. Differences between these curves provide insight into each PV system's ability to reduce the highest loads experienced by the host building or utility. One set of such curves is presented for each system and for each month of a 12-month performance monitoring period. itoring period.

Keywords: "Photovoltaic power plants, "Electric power generation, "Air pollution abatement, "Energy demand, Electric utilities, Peak load, Photovoltaic conversion, Carbon dioxide, Sulfur dioxide, Nitrogen oxides, Particulates, Photovoltaic cells, Buildings, Energy efficiency, Emissions, Emission factors, Irradiance, Cost analysis, Performance evaluation, Case studies.

PB98-145485REB PC A09/MF A02 Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Total Risk Integrated Methodology. Implementation of the TRIM Conceptual Design through the TRIM.FaTE Module. A Status Report. Lawrence Berkeley National Lab., CA. Mar 98, 156p, EPA/452/R-98/001. Contract EPA-68-D-30094 See also PB98-145527. Prepared in cooperation with Oak Ridge National Lab., TN. and IT Corp., Cak Ridge, TN. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. PC A09/MF A02 PB98-145485REB

ning and Standards.

ning and Standards.

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The Office of Air Quality Planning and Standards (OAQPS) of the U.S. Environmental Protection Agency (EPA) is developing the Total Risk Integrated Methodology (TRIM), a multimedia, time-series simulation modeling system for the assessment of human and ecological risks resulting from hazardous and criteria air pollutants. The purpose of this report is to summarize the work performed during the first developmental phase of TRIM. The first phase included the conceptualization of TRIM and the implementation of the TRIM conceptual approach through the developmental phase. the TRIM conceptual approach through the develop-ment of the first TRIM module, the environmental fate, transport, and exposure module, called TRIM.FaTE. TRIM.FaTE development focused on defining the mathematical shucture of the module and initial testing and evaluation of these concepts. This report provides detailed information about the overall structure of TRIM and the development of the TRIM.FaTE module.

Keywords: *Environmental transport, *Risk assess-Keywords: "Environmental transport, "Risk assess-ment, Health hazards, Public health, Environmental exposure pathway, Dose-response relationships, Bio-trinetic models, Mass balance, Air pollution ef-fects(Humans), Implementation, Requirements, Com-puterized simulation, Mathematical models, "TRIM(Total Risk Integrated Methodology), "Total Risk Integrated Methodology, "Environmental fate, Hazard-ous air pollutants, Clean Air Act Amendments of 1990.

PB98-145568REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Thermodynamic, Energy-Efficient and Economic Criteria for Evaluation of Alternative Refrigerants for Heat Pumps. Rept. for Jun-Aug 97. Acurex Environmental Corp., Research Triangle Park, G. Kazachki, and C. L. Gage, 1998, 12p, EPA/600/A-

Contract FPA-68-D4-0005

Contract EPA-68-D4-0005
Presented at the IIR Conference, Heat Pump Systems, Energy Efficiency and Global Warming, Linz, Austria, September 28-October 1, 1997. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses thermodynamic, energy-efficient, and a economic criteria for evaluting alternative refrigerants for heat pumps. (NOTE: Thermodynamic properties have traditionally played a major role in evaluating a fluid as a potential refrigerant).

Keywords: *Refrigerant, *Heat pumps, Chlorofluorocarbons, Alternatives, Air conditioners, Thermodynamic CFC(Chlorofluorocarbons). properties.

PC A02/MF A01 PB98-147143REB PC A02/MF A01
Environmental Protection Agency, Research Triangle
Park, NC. Air and Energy Engineering Research Lab.
Greenhouse Gases from Anserobic Decomposition of Waste. Rept. for Oct 92-Oct 94.
Pechan (E.H.) and Associates, Inc., Durham, NC.
M. R. J. Doom, S. A. Thorneloe, B. Eklund, and J.
LaCosse. 1998, 8p. EPA/600/A-98/079.
Contracts EPA-68-D1-0146, EPA-68-D1-0031
Presented at the Environmental Protection Agency/Air
and Waste Management Association Emission Inven-PB98-147143REB Presented at the Environmental Protection Agency/Air and Waste Management Association Emission Inventory Conference, Raleigh, NC., October 30-November 3, 1994. Prepared in cooperation with Radian Corp., Austin, TX. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air and Energy Engineering Research Lab.

Engineering Research Lab.

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This paper gives an overview of EPA/Air and Energy Engineering Research Laboratory's (AEERL's) programs to characterized emissions of greenhouse gases GHGs from wastewater treatment and disposal (WWT/D) sources in industrialized and developing

countries

Keywords: *Greenhouse gases, *Anaerobic processes, *Agricultural wastes, Biodegration, Wastewater, Waste water, Emissions, Lagoons(Ponds).

PB96-148273REB PC A15/MF A03
Environmental Protection Agency, Washington, DC.
Office of Pollution, Prevention, and Toxics,
National Directory of AHERA Accredited Courses,
May 29, 1998 Edition.
VISTA Computer Services, Inc., Bethesda, MD.
29 May 98, 3240.
Contract EPA-68-W-98-004
Supersedes PB97-135842

Supersedes PB97-135842. Sponsored by Environ-mental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

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The National Directory of AHERA Accredited Courses is intended primarily for use by federal and state agencies involved in the training and accreditation of asbescies involved in the training and accreditation of asbes-tos control professionals under the Asbestos Hazard Emergency Response Act of 1986 (AHERA), as amended by the Asbestos School Hazard Abatement Reauthorization Act of 1990 (ASHARA), under which the EPA Model Acreditation plan was issued. It con-tains information about training providers approved courses nationwide and is meant to serve as a com-prehensive reference and resource document. It should also be useful for those training providers who offer accredited asbestos courses and to all consum-ers of these training services. ers of these training services.

Keywords: *Asbestos, *Inspection, *Removal, *Training, *Directories, Courses(Education), US EPA, Keywords:

Accreditation, Data bases, Personnel development, Education, Federal government, State government, Local government, *AHERA(Asbestos Hazards Emergency Response Act), *Asbestos Nazards Emergency Response Act.

PB98-150121REB PC A06/MF A01 RCRA Implementation Plan (RIP): Fiscal Years 1996-97.

1996-97.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response. May 95, 82p, EPA/530/R-95/006.
See also PB96-163381.
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The report defines the national policy and strategic goals and priority activities for the RCRA solid and hazgoats and priority activities for the HCHA soild and naz-ardous waste program. Includes both changes and clarifications to the fiscal year 1994 RCRA implemen-tation plan and the fiscal year 1995 addendum. It pro-vides additional guidance in waste minimization, cor-rective action, state grants, beginning of the year plans, Indian programs, environmental justice, infor-mation management, state authorization, permitting/ closure, and subtitle D activities.

Keywords: "Hazardous materials, "Program manage-Keywords: "Hazardous materials, "Program management, "Data management, Pollution abatement, Pollution control, Remediation, Municipal wastes, Industrial wastes, Incineration, Solid waste management, Ground disposal, Reporting, Implementation, Planning, Priorities, Ranking, Permits, Enforcement, State government, "RCRA(Resource Conservation and Recovery Act), "Resource Conservation and Recovery Act, Environmental justice, Waste minimization.

PB98-150253REB PC A08/MF A02 Environmental Protection Agency, Washington, DC.

Operator's Guide to Eliminating Bias in CEM Sys-

Source Technology Associates, Research Triangle

Park, NC.

J. A. Jahnke. Nov 94, 126p, EPA/430/R-94/016.

Contract EPA-68-D2-0168

See also PB92-224369, and PB98-112931. Prepared in cooperation with Cadmus Group, Inc., Raleigh, NC. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.

Washington, DC. Acid Hain Div.
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The inclusion of the t-test for bias in the Acid Rain Recutations, 40 CFR Part 75, signaled a marked improve-ment in the capability to detect a significant source of measurement error that had previously remained hid-den. The capability to detect bias left environmental technicians and instrument operators with the often daunting job of, first, diagnosing the cause of the measurement bias, and, then, taking steps to correct it. This publication is intended to make that job easier. A Pull-out chart, entitled Eliminating Bias in CEMS — A Checklist, provides a comprehensive listing of the monitoring system problems that can cause systematic error. A brief description and potential corrective actions are shown for each problem. Finally, the Checklist directs users to the appropriate pages in the ac-companying Operator's Guide, where fuller descrip-tions of problems and remedies can be found. The actions of problems and remedies can be found. The ac-companying Operator's Guide to Eliminating Bias in Monitoring Systems is organized into eight chapters. The problem areas covered are: Probe Location and Stratification (Chapter 2), Extractive Sampling Sys-tems (Chapter 3), In-Situ Gas Monitoring Systems and Opacity Monitors (Chapter 4), Flow Monitors (Chapter 5), Gas Analyzers (Chapter 6), and Data Acquisition and Handling Systems (Chapter 7). Chapter 8, the last chapter in the Operator's Guide, discusses elements that should be incompated into oppoing Ouslity Assurthat should be incorporated into ongoing Quality Assur-ance Programs to detect and prevent the problems that produce systematic error in monitor measurements.

Keywords: *Air pollution monitoring, *Bias, *Statistical analysis, *Operators, Air pollution monitors, Facilities management, Operation and maintenance, Air pollu-

tion sampling, Data acquisition, Gas acquisition, Gas analysis, Data quality, Quality assurance, Continuous sampling, Error analysis, Guides, *CEM(Continuous Emission Monitoring), *Continuous Emission Monitoring, *T tests, Acid Rain Program.

PB98-151244REB PC A03/MF A01 Corvallis Environmental Research Lab., OR.

Texture Analysis Riparian Coniferous Forest ADAR Imagery to Identify Potential Ecological Indicators for Monitoring.

Dynamac Corp., Corvallis, OR.

J. R. Barker, M. Bollman, M. Fiorella, G. Bradshaw,

and P. L. Ringold. 1998, 14p, EPA/600/A-98/061. Contract EPA-68-C6-0005 Presented at the International Conference on

Geospatial Information in Agriculture and Forestry (1st), Lake Buena Vista, FL., June 1-3, 1998. Prepared in cooperation with Forest Service, Corvallis, OR. Pacific Northwest Research Station. and Oregon State Univ., Corvellis. Sponsored by Corvallis Environmental Research Lab., OR.

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Airborne Data Acquisition and Registration (ADAR) remote sensing system captured one-meter resolution imagery of 25 different riparian sites in drift Creek Basin of coastal northwestern Oregon, USA. The multispectral, digital data characterized riparian areas with the intent to develop ecological indicators for long-term monitoring.

Keywords: *Riparian plants, *Forests, *Canopies(Vegetation), *Environmental monitoring, *Biological indicators, *Remote sensing, Drift Creek, River basines, Riparian land, Coniferous trees, Deciduous trees, Pattern recognition, Spatial resolution, Image analysis, Image processing, Regression analy-sis, Ecological indicators, ADAR(Airborne Data Acqui-Registration), Northwestern sition and gion(Oregon).

PB98-151251REB PC A03/MF A01 National Risk Management Research Lab., Cincinnati,

UH.
Enhanced Remediation Demonstrations at Hill
AFB: Introduction. Chapter 20. Book chapter.
Rice Univ., Houston, TX. Dept. of Environmental
Science and Engineering.
P. B. Bedient, A. W. Holder, C. G. Enfield, and A. L.
Wood. 1998, 20p. EPA/600/A-98/060.
Grant EPA-R-82/02/4
Sconneyed by Melant Pick Management Property

Grant EPA-R-822024

Sponsored by National Risk Management Research Lab., Cincinnati, OH., Strategic Environmental Research and Development Program, Arlington, VA. and Ogden Air Logistics Center, Hill AFB, UT. Environmental Restoration and Management Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Nine enhanced aquifer remediation technologies were demonstrated side-by-side at a Hill Air Force Base Chemical Disposal Pit/Fire Training Area site. The demonstrations were performed inside 3 x 5 m cells isolated from the surrounding shallow aquifer by steel sheet piling.

Keywords: "Air froce facilities, "Aquifers, "Ground water, "Remediation, "Water pollution control, Fuels, Hydrocarbons, Aeration, Mobilization, Surfactants, Steam injection, Demonstration programs, "Hill Air Force Base, Davis County(Utah), Light nonaqueous phase liquids, Chlorinated solvents, Solubilization, Microemulsion, Soil flushing.

PR98-151343REB PC A99/MF A06 Seminar Publication: National Conference on San-Seminar Publication: National Conference on Santary Sewer Overflows (SSOs). Held in Washington, DC. on April 24-26, 1995.

Environmental Protection Agency, Washington, DC. Office of Research and Development.

Sep 96, 610p, EPA/625/R-96/007.
Details in illustrations may not be fully legible in microfiche.

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The National Conference on Sanitary Sewer Overflows (SSO) was held in Washington DC on April 24-26, 1995. The conferences was a forum for nearly 500 environmental professionals to exchange technical information and experiences relating to the complex issues of sanitary sewer overflows (SSOs).

Keywords: "Sanitary sewers, "Sewer systems, "Overflow, "Meetings, Peak discharge, Surface runoff, Sewage disposal, Storm water runoff, Inflow, Outflow, Pipes(Tubes), Maintenance management, Public sector, Public utilities, Private sector, Communities, Water quality, Monitoring, Watersheds, Case studies.

PB98-151467REB PC A02/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Small Scale Biomass Fueled Gas Turbine Engine. Rept. for Feb 92-Oct 97.

Cratech, Inc., Tahoka, TX. J. D. Craig, and C. R. Purvis. 1998, 8p, EPA/600/A-98/

Presented at the ASME IGII, Turbo Expo '98, Stock-holm, Sweden, June 2-5, 1998. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div., Ten-

NC. Air Pollution Prevention and Control Div., Tennessee Valley Authority, Chattanooga, Strategic Environmental Research and Development Program, Arlington, VA. and Department of Energy, Golden, CO. Western Region Biomass Energy Program.

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The paper discusses a new-generation, small-scale (< 20 MWe) biomass-fueled pwoer plant that is being developed based on a gas turbine (Brayton Cycle) prime mover. The new power plants are also expected to economically utilize annual plant growth materials (e.g., straw, grass, rice hulls, animal manure, cotton gin trash, and nut shells) that are not normally considered as fuel for power plants. The paper summarizes the new power generation concept with emphasis on the engineering challenges presented by the gas tur-

Keywords: *Biomass conversion, *Gas turbine engines, *Electric power generation, Wood fuels, Wood wastes, Combustion efficiency, Brayton cycle, Fuel combustion, Fuel control, Air pollution abatement, Pollution prevention.

PB98-151475REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Mechanistic Implications of Polychlorinated Dibenzodioxin and Dibenzofuran Homologue Profiles from Municipal Waste and Coal Co-Combustion. Rept. for Oct 94-Mar 98.

ARCADIS Geraghty and Miller, Inc., Research Triangle

Park, NC.

Park, NC.

B. K. Gullett, J. E. Dunn, S. K. Bae, and K.
Raghunathan. 1998, 16p, EPA/600/A-98/074.

Contract EPA-68-D4-0005

Presented at the International Conference on Incineration and Thermal Treatment Technologies (17th), Salt ation and Thermal Treatment Lechnologies (17th), Sait Lake City, UT., May 11-15, 1998. Prepared in cooperation with Arkansas Univ., Fayetteville. Dept. of Mathematical Sciences. and Changwon National Univ. (Republic of Korea). Dept. of Environmental Engineering. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at ATM 1500-56000. and email orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses the mechanistic implications of polychlorinated dibenzodioxin and dibenzofuran (PCDD and PCDF) homologue profiles from municipal waste and coal co-combustion. Variation in PCDD and PCDF homologue profiles from a pilot-scale, co-fired-fuel combustion program was used to provide insights into postcombustion PCDD and PCDF pollution formation mechanisms. The molar quantities of the mono- to octa-chlorinated homologues were determined as a function of sampling temperature and residence time, function of sampling temperature and residence time, combustor operating conditions, and fuel type mixtures from a research program designed to determine the effect of co-firing coal with municipal solid waste on emissions of PCDDs and PCDFs. A 24-run, statistically designed test matrix varied dRDF and/or coal firing rates (at a constant targeted energy release rate) along with a range of process variables including calcium hydroxide injection, hydrogen chloride concentration, flue cas temperature, guench, and residence time such gas temperature, quench, and residence time such that the results would be relatable to a wide variety of waste combustors.

Keywords: *Polychlorinated dibenzodioxins, *Polychlorinated dibenzofurans, *Air pollution sampling, *Combustion products, Municipal wastes, Combustors, Coal combustion, Cocombustion, Incinerators, Dioxins, Furans, Halohydrocarbons, Combustion kinetics, Exhaust emissions, Air pollution sources, Homologues.

PB98-151483REB PC A03/MF A01 PB98-151483REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. Mercury Control Research: Effects of Fly Ash and Flue Gas Parameters on Mercury Speciation. Rept. for Apr-Sep 97.

ARCADIS Geraghty and Miller, Inc., Research Triangle

Park, NC.

C. W. Lee, J. D. Kilgroe, and S. B. Ghorishi. 1998, 22p, EPA/600/A-98/075.

Contract EPA-68-D4-0005

Contract EPA-68-D4-0005
Presented at the Annual Waste-to-Energy Conference (6th), Miami, FL., May 11-13, 1998. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses results of bench-scale experiments to study the effects of flue gas and fly ash parameter on the oxdation of elementary mercury (Hgo) in simulated flue gases containing hydrogen chloride

Keywords: "Mercury(Metal), "Fly ash, "Flue gases, "Air pollution monitoring, "Combustion chemistry, Combustion products, Chemical reactivity, Catalysis, Oxidation, Hydrogen chloride, Mercuric chloride, Water vapor, Sulfur dioxide, Fixed bed reactors.

PB98-151491REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Enhanced Formation of Dioxins and Furans from Combustion Devices by Addition of Trace Quantities of Bromine. Rept. for Jan-Mar 98.
ARCADIS Geraghty and Miller, Inc., Research Triangle

Park, NC.

P. M. Lemieux, and J. V. Ryan. 1998, 26p, EPA/600/A-

Contract EPA-68-D4-0005

Presented at the 1998 International Conference on Incineration and Thermal Treatment Technologies, Salt Lake City, UT., May 11-15, 1998. Sponsored by Environmental Protection Agency, Research Triangle Park, ronmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fectworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses enhancing the formation of dioxins and furans from combustion devices by adding trace quantities of bromine (Br). Emissions of trichloro-ethylene and tetrachloroethylene, generated as PICs from the fuel-lean combustion of methylene chloride, were enhanced by up to 3 orders of magnitude by introducing Br in the form of methylene bromide at a constant halogen molar input rate with a 1:10 Br/chlorine (CI) molar ratio. The two chlorinated PICs in question are both potential ring growth precursors, which could lead to enhanced formation of polychlorinated dibenzop-dioxins and polychlorinated dibenzofurans (PCDDs/ PCDFs). The experiments described in this paper ex-pand on the earlier work by examining the effect of

trace amounts of Br on the formation of PCDDs/ PCDFs, in addition to other chlorinated, brominated, and mixed bromochlooro organic PICs.

Keywords: "Dioxins, "Furans, "Incinerators, "Air pollution monitoring, "Combustion products, Bromine, Trace amounts, Combustion chemistry, Chemical reactivity, Polychlorinated dibenzodurans, Polychlorinated dibenzodioxins, Methylene chloride, Methylene bromide, Trichloroethylene, Tetrachloroethylene, Halohydrocarbons, Air pollution sources, ylene bromius, included by the Halohydrocarbons, Air pollution PICs(Products of Incomplete Combustion).

PB98-151509REB PC A03/MF A01 PB98-151509REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. Results of the September 1997 DOE/EPA Demonstration of Multimetal Continuous Emission Monitoring Technologies. Rept. for Jul-Oct 97. Sky (Plus), Oakland, CA. P. M. Lemieux, J. V. Ryan, N. B. French, D. B. Burns, W. J. Haas, and S. J. Priebe. 1998, 16p, EPA/600/A-98/073.

98/073.

Contract EPA-68-D4-0005
Presented at the 1998 International Conference on In-

Presented at the 1998 International Conference on Incineration and Thermal Treatment Technologies, Salt Lake City, UT., May 11-15, 1998. Prepared in cooperation with Ames Lab., IA., Idaho National Engineering and Environmental Lab., Idaho Falls. and Westinghouse Savannah River Co., Alien, SC. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at orders@ntis.ledworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper gives results of a September 1997 DOE/ The paper gives results of a September 1997 EPA demonstration multimetal continuous emission monitoring (CEM) technologies. The demonstration at EPA's combustion laboratory in Research Triangle Park, NC, involved side-by-side testing of seven multimetal CEMs at various stages of commercializa-

Keywords: *Air pollution monitors, *Metals, *Combustion products, Air pollution sampling, Particulates, Flue gases, Fly ash, Particles, Toxic substances, Incinerators, Exhaust emissions, Continuous sampling.

PB98-151517REB PC A03/MF A01 PB98-151517REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Near-Real-Time Measurement of Trace Volatile Or-ganic Compounds from Combustion Processes Using an On-Line Gas Chromatograph. Rept. for Aug 97-Apr 98. Acurex Environmental Corp., Research Triangle Park,

NC. J. V. Ryan, P. M. Lemieux, and W. T. Preston. 1998, 18p, EPA/600/A-98/072.

Contract EPA-68-D4-0005
Presented at the International Conference on Incineration and Thermal Treatment Technologies, Salt Lake
City, UT., May 11-15, 1998. Prepared in cooperation
with ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution
Prevention and Control Div.

Prevention and Control UV.

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The paper discusses the near-real-time measurement of trace volatile organic compounds (VOCs) from comor late volatile organic compounts (VCCs) from compounts (VCCs) from compounts (VCC). The EPA-development near-real-time volatile organic compound (VOC) CEM, using an OLGC, is capable of measuring more than 20 VCCs at concentrapainte of measuring more than 20 VOCs at cortical ristions typically found in well-operated combustion systems. The OLGC system consists of a sample delivery system, a sample concentrator, and a GC equipped with both flame ionization and electron capture detecwith both famile inflization and electron capture described to the control of the CDM performance criteria, specifically calibrated error, calibration drift error, and system bias.

Keywords: "Air pollution sampling, "Gas chromatography, "Combustion products, "Trace amounts, Chromatographs, Flue gases, Flame ionization, Eleccomponency raphs, riue gases, Flame ionization, Electron capture, Detectors, Continuous sampling, Air pollution sources, Air pollution monitoring, "Volatile organic compounds, CEM(Continuous Emission Monitors).

PB98-151632REB PC A02/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Demonstration of Liquid CO2 as an Alternative for Metal Parts Cleaning, Rept. for Aug 94-Apr 96. Research Triangle Inst., Research Triangle Park, NC. C. H. Darvin, and E. A. Hill. 1998, 10p, EPA/600/A-98/ DAG.

Grant EPA-R-818419

Presented at Precision Cleaning '97, Cincinnati, OH., April 15-17, 1997. See also PB97-121149. Sponsored by Environmental Protection Agency, Research Tri-angle Park, NC. Air Pollution Prevention and Control

Div.

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The paper discusses the demonstration of a non-sol-vent liquid carbon dioxide (LCO2) alternative for metal verti tiquid carbon dictate (CCC2) alternative for metal the Warner Robins Air Logistics Center, Robins Air Force Base, Georgia, in August 1995 to show the feasibility and capability of the LCC2 process. Actual aircraft parts, including scrap parts and non-flight tools, were cleaned during the demonstration. A great variety of part were selected for cleaning, including bearings. or part were selected for cleaning, including bearings, teel system tubing, filters, bolts and other mechanical and structural aircraft parts. The demonstration incorporated hot oil process oil and ultrasonics to enhance and maximize the efficiency of the process. The LCO2 process was shown to be equivalent to 1,1-1richlorosthess descript for the paste are tracted defining the ethane cleaning for the parts evaluated during the

Keywords: "Degreasing, "Surface cleaning, "Metal cleaning, "Alternatives, Cleaners, Solvents, Environmental chemical substitutes, Material substitution, Air pollution abatement, Performance evaluation, Arr onstration programs, "Liquid carbon dioxide, "Metal parts, Pollution prevention.

PB98-151640REB PC A03/MF A01 Past 1904 Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Sampling and Analysis of VOCs for Indoor Air Source Characterization. Acurex Environmental Corp., Research Triangle Park,

NC.

R. Fortmann, K. Krebs, S. Marfiak, and M. Mason.
1998, 16p, EPA/600/A-98/087.

Contract EPA-68-D4-0005

Presented at the EPA/AWMA Conference, "Engineering Solutions to Indoor Air Quality Problems", Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses issues related to sampling and analysis that should be addressed in the design and performance of source characterization testing, wheth-er performed in small chambers, large chambers, test er performed in small chambers, large chambers, test houses or in the field. Selection of the sampling method (e.g., whole air samples, on-line sampling, or sorbent media) and design of the sampling protocol, for example, are important factors that are a function of votatile organic compounds (VOCs) in the emissions and the emissions profile. The applicability of different sorbent media or whole air methods depends on collection efficiency, recovery efficiency, and storage stability. Changing VOC concentrations and the often large differences in concentration between individual compounds may make sampling difficult. Several factors (e.g., water vapor concentration) affect the selection of thermal desorbers (for sorbents), the concentration method, gas chromatography columns, and detection method, gas chromatography columns, and detec-tors. The paper also highlights quality assurance

issues and reporting of measurement methods and re-

Keywords: *Indoor air pollution, *Air pollution sources, *Air pollution sampling, *Emissions, *Test chambers, Stationary pollutant sources, Emission factors, Air pollution detection, Ecological concentration, Testing, Design criteria, Performance evaluation, Sample preparation, Collecting methods, Sorbents, Air pollution control, "Volatile organic compounds.

PB98-151657REB PC A03/MF A01 PB96-13103/PEB PC AUSMIF AUTE Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Sampling and Analytical Strategies for Organic Emissions Testing of Wet Sources in Small Chambers. Rept. for 1996-97.

Acurex Environmental Corp., Research Triangle Park,

K. Krebs, J. Chang, M. Mason, H. C. Lao, S. Marfiak, R. Fortmann, and Z. Guo. 1998, 14p, EPA/600/A-98/

Contract EPA-68-D4-0005

Presented at the Air and Waste Management Associa-tion International Symposium on Measurement of Toxics and Related Air Pollutants, Durham, NC., April 29-May 1, 1997. Sponsored by Environmental Protec-tion Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Prevention and Control Div.

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The paper discusses some sampling and analytical issues involve with small environmental chamber test-ing of wet sources. Tests measuring emissions from latex paints and alkyd-based paints will be used to illustrate these issues. Sampling issues are discussed, such as the selection of sampling methods, prepara-tion of sorbents, and sampling frequency and size. An-alytical issues described include the choice of instru-mentation and detectors for different types of com-

Keywords: "Latex, "Paints, "Test chambers, "Air pollu-tion sampling, "Emissions, Air pollution sources, Air pollution detection, Detectors, Testing, Organic com-pounds, Sorbents, Indoor air pollution, Analytical meth-ods, Mathematical models, Wet sources.

PB98-151665REB PC A03/MF A01 PB98-151665REB PC A03/MF A01
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Study of the Structures of Spray Cones Utilizing
Digital Particle Image Velocimetry.
Illinois Univ. at Urbana-Champaign. Bioenvironmental
Engineering Research Lab.
M. M. Cui, L. L. Christianson, M. E. Tumbleson, and K.
W. Leovic. 1998, 16p, EPA/600/A-98/089.
Grant EPA-R-822007
Presented at the EPA/AWMA Conference "Engineering Presented at the EPA/AWMA Conference"

Grant EPA-H-622007

Presented at the EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Park, NC. Air Pollution Prevention and Control Div.
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(703)605-6900; and email at
orders@ntis.fedworld.gov. NTIS is located at 5285
Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses a study of the structures of spray patterns, utilizing digital particle-imaging techniques and laser Doppler velocimetery. To provide sufficient data for reliable statistics, measurements included 5 types of aerosols and 120 to 240 replications for each types of aerosols and 120 to 240 replications for each set of parameters. An engineering model has been developed to predict the behavior of aerosol sprays. The experimental results and model can be used to optimize the design and to improve the efficacy of aerosol consumer products.

Keywords: *Aerosols, *Sprayers, *Laser doppler velocimeters, *Particle image velocimetry, *Velocity measurement, Particles, Atomizers, Consumer products, Environmental transport, Air pollution abatement, Pollution prevention.

PC A03/MF A01 PR98-151673RFR Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Park, NC. Air Pollution Prevention and Control Div.
Novel, Whole-Field, Non-Intrusive Diagnostic
Technique for Improvement of Indoor Air Quality.
Illinois Univ. at Urbana-Champaign.
M. M. Cui, L. L. Christianson, and M. E. Tumbleson.
1998, 16p, EPA/600/A-98/090.
Grant EPA-R-822007

Grant EPA-H-8:22007
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

NC. Air Pollution Prevention and Control Div.

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The paper discusses the development of a novel, whole-field, non-intrusive diagnostic technique and associated instrumentation and their application to study full-scale room air flows. The system is designed to study local field quantities in occupied zones (microclimate), ventilation effectiveness, and airborne pollutant transport in the indoor environment. The system can be applied to evaluate the fate and transport of aerosol consumer products in typical commercial and residential settings. The technique and instrumentation have been applied successfully to study localized air flow patterns and particle concentration distribution in the indoor environment. The results of this research can be used to develop more efficacious aerosol consumer

Keywords: *Indoor air quality, *Air flow, *Environmental transport, *Aerosols, *Space HAVAC systems, Indoor air pollution, Air pollution monitoring, Ventilation, Commercial buildings, Residential buildings, Particles, Consumer products, Flow patterns, Diagnostic routines, Air pollution abatement, Pollution prevention, Environmental feta. mental fate.

PC A03/MF A01 PB98-151681REB Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Measurement of Indoor Air Emissions from Office

Research Triangle Inst., Research Triangle Park, NC. K. W. Leovic, J. A. Calcagni, R. G. Hetes, D. Whitaker C. M. Northeim, and L. Sheldon. 1998, 16p, EPA/600/ A-98/091

Grant EPA-R-822025

See also PB95-191375. Presented at EPA/AWMA See also Poso-1913.5. Presented at EPAAVMIA-Conference 'Engineering Solutions to Indoor Air Qual-ity Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

r-revention and Control Div.

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The paper discusses the development of a standardized test method for measuring in door air emissions from office equipment. It is intended to be generally applicable to all types of office equipment and to be anytically sensitive in order to identify the entire range of emissions, including those that may be problematic at lower concentrations. The method is intended to promote uniform testing and research of collation present. mote uniform testing and research of pollution preven-tion opportunities rather than to determine regulatory compliance (i.e., if occupational exposure standards are met). Flow-through dynamic test chambers were selected because they are generally applicable to all types of equipment and provide the most versatile data. The paper provides background information on the project and describes the test protocol in detail, including: chamber specifications, sample collection, and analytical equipment. Preliminary results of a validation study of the test method-using dry-process photocopy machines -are also presented.

Keywords: "Office equipment, "Emissions, "Air pollution monitoring, Office machines, Printers, Ozone, Particulates, Test methods, Test chambers, Indoor air quality, Air pollution abatement, Indoor air pollution, "Copiers, "Photocopiers, Volatile organic compounds, Pollution prevention.

PR98-151723REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Review of Concentration Standards and Guidelines for Fungi In Indoor Air.

Harvard School of Public Health, Boston, MA. Dept. of

Environmental Health. C. Rao, H. Burge, and J. Chang. 1998, 18p, EPA/600/

Grant EPA-R-822641

Presented at EPA/AWMA Conference, 'Engineering Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at 1-800-553-NTIS (U.S. Customers); (703)605-6900; and email at 1-800-553-NTIS (U.S. Cust orders@rtis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper reviews and compares existing guidelines for indoor airborne fungi, discusses limitations of exist-ing guidelines, and identifies research needs that should contribute to the development of realistic and useful guidelines for these important air pollutants. Existing guidelines are based exclusively on baseline data (rather than on health effects data), and are either data (rather than on hearth effects data), and are either absolute (listing numbers) or relative (comoaring indoors to outdoors), or a combination of the two. Regulations controlling fungal aerosols have been published only by the Russian Federation. The U.S. Occupational Safety and Health Administration (OSHA) has pro-posed a standard that is being reviewed. Other guide-lines have been proposed or sponsored by North American and European government agencies. Fi-nally, some of the most often quoted guidelines have been proposed by individuals based on either prospective sampling studies or personal experience. Guidelines specify from < 100 to > 1000 colony forming units/ cu m (total fungi) as the upper limit for non-contaminated indoor environments.

Keywords: *Fungi, *Ecological concentration, *Standards, *Guidelines, *Indoor air quality, Microorganisms, Colonies(Biology), Aerosols, Air pollution sampling, Indoor air pollution, Bioaerosols.

PB98-151731REB PC A03/MF A01 PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Ongoing Evaluation of Sources and Factors Af-fecting Emissions from Engineered Wood Products.

Research Triangle Inst., Research Triangle Park, NC. S. L. Turner, C. B. Martin, L. S. Sheldon, J. N. Baskir, and E. M. Howard. 1998, 20p, EPA/600/A-98/102.

and E. M. Howard. 1998, 20p, EPA/600/A-98/102.
Grant EPA-R-822002
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper describes an ongoing evaluation of sources and factors affecting emissions from engineered wood and ractors affecting emissions from engineered wood products. It summarizes early results from emissions testing of engineered wood products. These tests have shown the emissions of volatile organic compounds (VOCs) from the alcohol, aldehyde/ketone, ester, aromatic and aliphatic hydrocarbon, monoterpene, sesquiterpene, indene, and alkyl ether chemical families from engineered wood samples. This information will be used to target pollution prevention approaches, such as alternate materials and production technologies for raw board and engineered wood products, for reducing VOC emissions.

Keywords: *Air pollution sources, *Emission factors, "Wood products, "Indoor air quality, Emissions, Alco-hols, Aldehydes, Ketones, Indoor air pollution, Air pol-lution sampling, Quantitative analysis, Materials substi-tution, Test chambers, Air pollution abatement, Volatile organic compounds, Pollution prevention.

PB98-151749REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Air Exchange Rate Measurements in an IAQ Test

Acurex Environmental Corp., Research Triangle Park,

Z. Guo, L. E. Sparks, and M. R. Bero. 1998, 20p, EPA/ 600/A-98/101.

Contract EPA-68-D4-0005
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at 1703)605-6000. (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

in the past 6 years, over 1,000 tracer gas measurements have been made to determine the air exchange rates in the EPA Indoor Air Quality Test House. The major factors that affected the air exchange rate include: weather conditions, operation of the heating and air-conditioning (HAC) system, and closing or opening the interior doors. An empirical model that correlates air infiltration rate to indoor/outdoor temperature difair imitration rate to incoor/outdoor temperature di-ference and outdoor wind speed can predict the air ex-change rate with an average predictive error of 10%. The model also makes it possible to construct a contin-uous air exchange profile, with which the diurnal and annual patterns can be examined. With the HAC system on, the air exchange rate showed diurnal and an-nual patterns can be examined. With the HAC system on, the air exchange rate showed a moderate increase as compared to that with the system off. In a striking contrast, the interior doors had much greater impact on contrast, the interior doors had much greater impact on air exchange; under similar weather conditions, closing all interior doors doubled the air exchange rate when the HAC system was on. Type III mixing difficulty was observed in the test house. Results from extensive computer simulations showed that, for tracer decay method, air exchange rate calculated by using the data in the first hour and after 4 or 5 hours contained much greater error than that calculated by using the data in between. Recommendations are made for minimizing such error

Keywords: *Air pollution monitoring, *Houses, *Indoor air quality, Air flow, Air infiltration, Doors, Flow rates, Indoor air pollution, Heating equipment, Air conditioning equipment, Ventilation systems, Space HVAC systems, Environmental tests, Computerized simulation, Mathematical models, *Air exchange rates.

PB98-151756REB PC A07/MF A02 Toxicological Review of Beryllium and Compounds (CAS No. 7440-41-7).

Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.

R. M. Bruce. Apr 98, 102p, EPA/635/R-98/008, NCEA-S-0420.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may re sult from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS pertinent to Beryllium and Compounds (CAS No. 7440-41-7).

Keywords: "Beryllium, "Toxicity, "Environmental expo-sure, "Health hazards, "Dose-response relationships, *Risk assessment, Beryllium compounds, Toxicology, Inhalation, Oral dosage, Reproduction(Biology), Dermal absorption, Gastrointestinal diseases, Parenteral infusioins, Lung neoplasms, Carcinogenecity tests, Chronic disease, Chronic exposure, Carcinogens, Bioassay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, CAS 7440-41-7, IRIS(Integrated Risk Information System), Tovicalization Toxicokinetics.

PR98-151784REB EB PC A04/MF A01 Review of Bentazon (CAS No. Toxicological 25057-89-0\L

Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment. H. W. Spencer. Feb 98, 40p, EPA/635/R-98/005, NCEA-S-0414.

NCEA-S-0414.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may result from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS pertinent to Bentazon (CAS No. 25057-89-0).

Keywords: "Toxicity, "Environmental exposure, "Health hazards, "Dose-response relationships, "Risk assessment, Pesticides, Toxicology, Inhalation, Oral dosage, Reproduction(Biology), Dermal absoption, Carcinogenicity tests, Chronic disease, Chronic exposure, Carcinogenicity tests, Chronic disease, Chronic expocarcinogenical tests, Caronic assesse, Caronic expo-sure, Carcinogens, Bioassay, Dose rates, Factor anal-ysis, Epidemiology, Chemical properties, Physical properties, "Bentazon, CAS 25057-89-0, IRIS(Integrated Risk Information System), Toxicokinetics.

PC A03/MF A01 PB98-151772REB PESS-1917/ZRES PC AUS/MF AU1
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Effect of Relative Humidity on Gaseous Air Cleaner Media Performance: Toluene Adsorption by Activated Carbon.

tryated Cardon.
Research Triangle Inst., Research Triangle Park, NC.
M. K. Owen, D. W. VanOsdell, L. B. Jaffe, and L. E.
Sparks. 1998, 18p, EPA/600/A-98/096.
Grant EPA-R-822870-01

Grant EPA-H-822870-01
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Environmental Protection Agency, Research Triangle Park, NC, Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper gives results of an examination of the per-formance characteristics of activated carbon as a gas-phase air cleaner medium under various levels of re-ative humidity (RiH) and a range of toluene concentra-tions. Toluene breakthrough curves at levels of humid-ity from below 5 to 80% were obtained. The concentra-tion of the toluene shellenge waited from 0.4 to 72.8 ity from below 5 to 80% were obtained. The concentra-tion of the toluene challenge varied from 0.4 to 72.8 ppm. The experiments were performed in a small-scale test rig with temperature, flowrate, and humidity con-trots. These experiments provided data to explore the relationship of useful lifetime to RH. Below 50% RH, RH appears to have negligible influence on the adsorp-tion of toluene but, by 75% RH, the toluene adsorption is decreased. Above the inflection point in the relation-thip between the capton water containt and the RH of ss occressed. According innection point all the relationship between the cabon water content and the RH of the challenge air, the water interferes with the adsorption of toluene. Thus, the water adsorption curve supports the toluene adsorption data. The lineagrity of the relationship between the concentration and the 10% breakthrough time indicates that high concentration breakthrough data can be used to predict the breakthrough time for lower concentration challenges

Keywords: *Toluene, *Adsorption, *Activated carbon Reywords: "following, "Ausorphion, "Activated Catholic treatment, "Emissions, "Air pollution control equip-ment, "Air cleaners, Gases, Granular activated filters, Test chambers, Flow rates, Air flow, Ecological con-centration, Relative humidity, Performance evaluation, Indoor air pollution.

PB96-151780REB PC A03/MF A01 PRIME-131/BUNGED PC AUSTIFF AND Emvironmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Developing Guidance for Considering Cost-Effectiveness When Selecting and Designing IAQ Conarch Triangle Inst., Research Triangle Park, NC.

D. B. Henschei, and P. R. Peterson. 1998, 20p, EPA/ 600/A-98/105.

Grant EPA-R-822870-01

Grant EPA-H-0220/0-01
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses the development of guidance for considering cost-effectiveness when selecting and de-signing indoor air quality (IAQ) control approaches. A program has been initiated to develop technical guidance that will assist the user in selecting and designing the most cost-effective combination of IAQ control options in any specific circumstances. The initial guidtions in any specific circumstances. The initial guid-ance will be general guidance for commercial and insti-tutional buildings, based on a series of case studies. The initial effort has focussed on defining the meth-odology for developing this guidance. The on-going methodology development efforts described here in-clude definition of: the scenarios for which alternative IAQ control approaches might be considered as com-petitive options; the methods for calculating cost and effectiveness; and the methods for presenting, in a user-friendly manner, cost-effectiveness as a function user-friendly manner, cost-effectiveness as a function of effectiveness in reducing occupant exposure. The case studies that will be conducted, using the methodology, will involve detailed definition of all key building; heating, ventitation, and air-conditioning; source occupancy; and IAQ-related parameters for the given case (e.g., a particular new small office building). A sensitivity analysis will then be conducted.

Keywords: "Indoor air quality, "Cost effectiveness, "Air pollution control, "Design analysis, "Selection, Indoor air pollution, Air cleaners, Ventilation systems, Space HVAC systems, Heating equipment, Air conditioning equipment, Air conditioning equipment, Alternatives, Scenarios, Commercial buildings, Office buildings, Public buildings, Guidance.

PB98-151798REB PC A05/MF A01 Toxicological Review of Methylene Diphenyl Disocyanate (MDI) (CAS No. 101-68-8 and 9016-

Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment. M. M. Greenberg. Feb 98, 62p, EPA/635/R-98/006, NCEA-S-0418.

NCEA-S-0418.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may result from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS pertinent to Methylene Diphenyl Disocyanate (MDI) (CAS No. 101-68-8 and 9016-87-

Keywords: *Toxicity, *Environmental exposure, *Health hazards, *Dose-response relationships, *Risk assessment, Diisocyanates, Toxicology, Inhalation, Oral dosage, Chronic exposure, Carcinogy, Innaianon, Oral dosage, Chronic exposure, Carcinogens, Bio-assay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, "Methylene diphenyl disocyanate, CAS 101-68-8, CAS 9016-87-9, IRIS(Integrated Risk Information System), Testablished Research (CAS) 101-68-8, CAS 9016-87-9, IRIS(Integrated Risk Information System), Toxicokinetics.

PC A05/MF A01 PB98-152655REB Glossary of Terms from Federal Air Programs. Glossary of Terms from Federal Air Programs.
Environmental Protection Agency, Research Triangle
Park, NC. Office of Air Quality Planning and Standards.
May 95, 66p, EPA/456/B-95/002.
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7773/805-8000: and email at

(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Contained in this this glossary are terms found in the various Federal air programs under the Clean Air Act. A matrix summarizing all terms found in Clean Air Act programs and the specific documents in which terms are defined was developed to assist in the compilation of this document and is found in Appendix A.

Keywords: *Glossaries, *Terms, *Federal programs, Federal goernment, US EPA, Pollution regulations, Environmental law, Environmental policies, Air pollution standards, Terminology, *Clean Air Act Amendments of 1990, State Implementation Plans, New Source Performance Standards, New Source Review, Title V Operating Permits, National Emission Standards for Hazardous Air Pollutants.

PB98-152663REB PC A06/MF A01 Basis and Purpose Document for the Develop-ment of Final National Emission Standards for Hazardous Air Pollutants for Off-Site Waste and Recovery Operations.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. May 96, 82p, EPA/453/R-96/010B.

See also PB95-110151.

See also PB95-110151.

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The U.S. Environmental Protection Agency (EPA) is developing National Emission Standards for Hazardous Air Pollutants (NESHAP) under the authority of Section 112 of the Clean Air Act for off-site waste and Section 112 of the Clean Air Act for orf-site waste and recovery operations that emit hazardous air pollutants (HAP). The NESHAP applies to specific types of facilities that are determined to be major sources of HAP emissions and receive certain wastes, used oil and used solvents from off-site locations for storage, treatment, recovery, or disposal at the facility. The purpose of this document is to present the EPA's response to major public comments on the proposed Off-Site Waste and Recovery Operations NESHAP.

Keywords: "Air pollution control, "Waste treatment, Waste processing plants, Waste water treatment, Waste recycling plants, Waste storage, Solid waste Waste recycling plants, Waste storage, Solid waste disposal, Hazardous materials, Exhaust emissions, Emission factors, Air pollution monitoring, Air pollution standards, Pollution regulations, Requirements, Standards compliance, Environmental impacts, Economic impact, Cost analysis, "NESHAP(National Emission Standards for Hazardous Air Pollutants), "National Emission Standards for Hazardous Air Pollutants, "Offsite waste operations, Energy impact, Clean Air Act Amendments of 1990, Public comments, Responses.

PB98-152689REB PC A06/MF A02 Supplement C to Compilation of Air Pollutant Emission Factors. Volume 1. Stationary Point and Area Sources (Fifth Edition).
Environmental Protection Agency, Research Triangle Park, NC. Emission Factor and Inventory Group.
Nov 97, 100p, EPA/454/F-98/005.
See also Supplement B, PB97-155113.

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Contents:

Meat Packing Plants; Natural and Processed Cheese; Read Baking; Cane Sugar Processing; Sugarbeet Processing; Distilled Spirits; Leather Tanning; Brick and Structural Clay Product Manufacturing; Frit Manufacturing; and Taconite Ore Processing.

Keywords: "Air pollution sources, "Stationary pollutant sources, "Emission factors, Area sources, Point sources, "Emission factors, Area sources, Point sources, Sampling, Hazardous materials, Toxic substances, Food industry, Meat packing industry, Cheeses, Bread, Baking, Sugar cane, Sugar beets, Sugar industry, Alcoholic beverages, Beverage industry, Tanning, Leather industry, Bricks, Structural clay products, Manufacturing, Frit, Taconite, Ore processing Dietilled spirits ing, Distilled spirits.

PB98-152705REB PC A16/MF A03
Wetland and Riparian Restoration: Taking a
Broader View. Contributed Papers and Selected
Abstracts, Society for Ecological Restoration
International Conference. Held in Seattle, Washington on September 14-16, 1995.
Environmental Protection Agency, Seattle, WA. Re-

gion X. K. B. Macdonald, and F. Weinmann. Dec 97, 330p, EPA/910/R-97/007.

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The 1995 International Conference of the Society for Ecological Restoration was held on the University of Washington, Seattle Campus in September 1995. The papers and abstracts included in this Proceedings volume have been divided among three groups: Taking a Broader View, Taking a Closer Look, and Works in Progress. These first 14 contributions are generally broad in scope and context. They consider the role of broad in scope and context. They consider the role of wetland and riparian habitats on a landscape or watershed scale, emphasizing regional approaches to wetlands restoration planning. The 11 contributions in 'Taking a Closer Look', cover a broad range of topics but generally focus in greater depth on individual restoration sites: Jetty Island, the Salmon River, Battiquitos Lagoon, an Illinois Kettle marsh, and South Carolina bottomland hardwoods. 'Works in Progress', include 38 extended and short abstracts. The first 17 of these are extended abstracts—modified and expanded by the authors following the SFR 95 Conference. The by the authors following the SER 95 Conference. The remaining 21 short abstracts are reprinted just as they appeared in the SER 95 Conference Program. They are included here to illustrate the tremendous breadth of studies being pursued by wetland and riparian habitat restorationists

Keywords: "Riparian waters, "Wetlands, "Restoration, "Meetings, Habitat improvement, Riparian land, Ecosystems, Environmental planning, Watersheds, Case studies, Pacific Northwest(US), United States.

PB98-152879REB PC A07/MF A02 Economic Analysis and Cost-Effectiveness Analysis of Proposed Effluent Limitations Guidelines and Standards for Industrial Waste Combustors.

and Standards for Industrial Waste Combustors. Environmental Protection Agency, Washington, DC. Engineering and Analysis Div.
W. Anderson, Jan 98, 106p, EPA/821/B-97/010.
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This document discusses in detail how effluent sampling data for selected pollutants and facilities were used to develop the proposed BPT effluent limitations. The document provides an overview of the statistical analyses; describes the sources of data; describes the modified delta-lognormal distribution which was used to derive the proposed limitations; and evaluates an al-ternative statistical model which was considered in developing the limitations.

Keywords: *Industrial wastes, *Combustors, *Economic analysis, *Cost effectiveness, *Point sources, *Water pollution control, *Water quality stand-*Combustors, sources, "Water pollution control, "Water quality standards, Incinerators, Water pollution sources, Water pollutions, Sectoral analysis, Water pollution economics, Chemical effluents, Erwironmental impacts, Economic impact, Social impact, Guidelines, POTW(Publicly-Owned Treatment Works), Regulatory Flexibility Analysis, BPT(Best Practicable Control Technology), BAT(Best Available Technology).

PB98-152887REB PC A05/MF A01

PB98-152887REB PC A05/MF A01
Statistical Support Document for Proposed Effluent Limitations Guidelines and Standards for the Landfills Point Source Category.
Environmental Protection Agency, Washington, DC. Engineering and Analysis Div.
Jan 98, 68p, EPA/821/8-97/006.
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The document discusses in detail how effluent sampling data for selected pollutants and facilities were used to develop the proposed BPT effluent limitations. The document provides an overview of the statistical analyses; describes the sources of data; describes the modified delta-lognormal distribution which was used to derive the proposed limitations; and evaluates an al-ternative statistical model which was considered in developing the limitations.

Keywords: *Landfills, *Point sources, *Chemical effluents, *Water pollution control, *Water quality standards, *Guidelines, *Statistical data, Earth fills, Water pollution sources, Water pollution sampling, Waste streams, Water treatment, Hazardous materials, Data acquisition, Data analysis, Statistical analysis, BPT(Best Practicable Control Technology), Nonhazardous wastes.

PB98-152895REB PC A12/MF A03
Reregistration Eligibility Decision (RED):
Thiobencarb. (Includes RED Facts: Thiobencarb) Fact Sheet.

Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Dec 97, 248p, EPA/738/R-97/013.

For Fact Sheet only, see PB98-153018.

For Fact Sheet only, see PB98-153018.

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This Reregistration Eligibility document (RED) adrnis Reregistration Eigibility document (RED) ad-dresses the eligibility for reregistration of pesticide products containing the active ingredient thiobencarb S-((4-chlorophenyl)methyl) diethylcarbamothioate. This document presents the Agency's decision regarding the reregistration eligibility of the registered used of

Keywords: "Pesticides, Herbicides, Thiocarbamates, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Thiobencarb, "Reregistration, Use patterns, CAS 28249-77-6.

PB98-152903REB PC A11/MF A03 Reregistration Eligibility Decision (RED): Terbacil.

(Includes RED Facts: Terbacil Fact Sheet).
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Jan 98, 216p, EPA/738/R-97/011.
For Fact Sheet only, see PB98-153000. See also
PB85-120186.

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This Reregistration Eligibility Decision Document (RED) addresses the reregistration eligibility of the pesticide terbacil, which includes the active ingredient 3-tert-butyl-5-chloro-6-methyluracil. This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of terbacil including the right to infants and children for any extential distance. the risk to infants and children for any potential dietary, drinking water, dermal or oral exposures, and cumulative effects as stipulated under the FQPA.

Keywords: *Pesticides, Uracils, Herbicides, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environ-mental impacts, Pollution regulations, Administrative procedures, Requirements, "Terbacil, "Reregistration, 3-tert-butyl-5- chloro-6-methyluracil, Use patterns, Cas 5902-51-2.

PB98-152911REB PC A05/MF A01 Environmental Protection Agency, Arlington, VA. Special Review and Reregistration Div. Feb 98, 62p, EPA/738/R-98/001.
See also PB90-185414.

See also PB9U-185414.

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Table of Contents: Introduction; (Management Directory; General Information); General Information);
Special Review (The Special Review Process;
Special Review Decision Dates at a Glance;
Reference Lists of Pesticides in Special Review;
Status of Individual Pesticide Reviews; Special Reviews in Process: Special Reviews Completed; Final Determinations on Pre-Special Reviews/
Deferred to Reregistration;

Final Actions/Voluntary Cancellations and Cancellations Issued Prior to RPAR/Special

Review Process).

Keywords: "Pesticides, "Reviewing, Chemical compounds, Toxicity, Helath hazards, Biological effects, Listings, Reregistration, Registration status, Special review processing, FIFRA(Federal Insecticide Fungicide and Rodenticide Act), RPAR(Rebuttable Presumetrics) sumption Against Registration).

PB98-152937REB PC A02/MF A01 National Estuary Program: A Ten-Year Perspec-tive. Demonstrating Practical Tools for Watershed Management through the National Estuary Pro-

gram. Environmental Protection Agency, Washington, DC. Office of Water

Jan 98, 6p, EPA/842/F-98/002K. See also PB92-233154.

See also PB92-233154. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

1997 marked the 10th anniversary of the US EPA's flagship watershed effort, the National Estuary Program (NEP). What began as a demonstration of an alternative to traditional command-and-control regulatory approaches to water quality problems has evolved into a model for integrated, watershed-based, stakeholder-oriented, water resource management.

Keywords: "Watershed management, "Water quality management, "Environmental protection, "Aquatic ecosystems, Watershed, Estuaries, Wetlands, Beaches, Aquatic biology, Environmental planning, Environmental monitoring, Habitat improvement, Environmental issues, US EPA, Citizen participation, States(United States), "National Estuary Program, CCMP(Comprehensive Conservation and Management Plan) ment Plan).

PB98-152994REB PC A03/MF A01 National BEACH Conference. Held in Annapolis, Maryland on October 15-16, 1997. Report on Action Items.
Environmental Protection Agency, Washington, DC.

Office of Water

May 98, 26p, EPA/823/R-98/004. See also PB98-154032.

See also PB98-154032.
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The purpose of this report is to present a list of potential 'action items' related to beach health. The U.S. Environmental Protection Agency (EPA) and the Association of State and Territorial Health Officials (ASTHO) cosponsored the first national BEACH conference on October 15-16, 1997, in Annapolis, Maryland. Numerous topics related to beach health were presented and discussed at the conference. Participants were asked to identify needs for technical assistance, assign priorto identify needs for technical assistance, assign priorities for short- and long-term actions, and, where pos-sible, recommend protocols and procedures to encourage greater consistency among jurisdictions in beach health issues.

Keywords: *Beaches, *Environmental health, *Water quality, *Meetings, Coastal areas, Coastal waters, Water pollution effects, Marine pollution, Monitoring, Risk assessment, Methodology, Recreation, Communications nications management, Long term planning, Standards, BEACH program.

PC A02/MF A01 PB98-153000REB

RED Facts: Terbacil. Fact sheet. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Jan 98, 8p. EPA/738/F-97/011. See also PB98-152903.

See also P1994-1329U3.

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This fact sheet summarizes the information in the RED document for reregistration case 0039, Terbacil. Terbacil is a selective herbicide used to control broadleaf weeds on terrestrial food/feed crops, and terres-

Keywords: "Pesticides, Uracils, Herbicides, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Terbacil, "Reregistration, 3-tert-buty1-5- chloro-6-methyluracil, Use patterns, CAS 5902-51-2.

PC A03/MF A01 PB98-153018REB RED Facts: Thiobencarb. Fact sheet.
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Sep 97, 16p, EPA/738/F-97/013.
See also P898-152895.

See also PB98-152895.

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This fact sheet summarizes the information in the RED document for reregistration case 2665, Thiobencarb. Thiobencarb is a systemic, pre-emergency herbicide that acts by inhibiting shooting of emerging seedlings.

Keywords: *Pesticides, Herbicides, Thiocarbamates, Toxicity, Risk assessment, Humans, Animals, Expo-sure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Thiobencarb, "Reregistration, Use patterns, CAS 28249-77-6.

PB96-153026REB PC A04/MF A01 Drinking Water Advisory: Consumer Acceptability
Advice and Health Effects Analysis on Methyl Tertlary-Butyl Ether (MBE). Environmental Protection Agency, Washington, DC.

Office of Water.

Dec 97, 46p, EPA/822/F-97/008. See also PB98-126667.

See also PB98-126667.

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EPA's Human Health and Criteria Division (HECD) of the Office of Water developed an Advisory document for methyl tertiary-butyl ether (MBE). This document is a non-regulatory document that analyses the currently available cancer and non-cancer data on this contaminant, as well as studies on its organoleptic (taste and

Keywords: "Drinking water, "Health hazards, "Ethers, Toxicity substances, Water pollution effects(Humans), Risk assessment, Biological effects, Exposure, Car-cinogens, Ecological concentration, Public health, Potable water, Oxygen organic compounds, Toxity, Water quality, "MtBe(Methyl Tertiary Butyl Ether), "Methyl tertiary butyl ether, "Health advisories.

PB98-153034REB PC A13/MF A03 Reregistration Eligibility Decision (RED): Metribuzin. (Includes RED Facts: Metribuzin Fact Reregistration

Steet, Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Feb 98, 258p, EPA/738/R-97/006.

For Fact Sheet only, see PB98-125644.

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customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of metribuzin including the risk to infants and children for any potential dietary, drinking water, dermal, inhalation or other oral exposures, and cumulative effects as stipulated under the FOPA.

Keywords: "Pesticides, Herbicides, Triazines, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Metribuzin, "Reregistration, Dimethylethylmethylthiotriazine, Use patterns, CAS 21087-64-9.

PB98-153042REB PC A02/MF A01

RED Facts: Diphenylamine. Fact sheet.
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Apr 98, 8p. EPA/738F-97/010.

See also PB98-153083.

See also PB98-153083.

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This fact sheet summarizes the information in the RED document for reregistration case 2210, dipheylamine. Diphenylamine (DPA) is a plant growth regulatory used post-harvest to control storage scald in apples.

Keywords: *Diphenylamine, *Pesticides, Amines, Plant growth regulators, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements *Reregistration, n-Phenylbenzeneamine Storage scald, Storage acald, Use patterns, CAS 122-39-4.

PB98-153059REB PC A05/MF A01 Method 1622: 'Cryptosporidium' in Water by Filtration/IMS/FA. Draft rept. Environmental Protection Agency, Washington, DC.

Dec 97, 60p, EPA/821/R-97/023. Dec 97, 60p, EPA/821/R-97/023.

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This method is for determination of the identity and concentration of Cryptosporidium (CAS Registry number 137259-50-8) in untreated and treated drinking water and in other waters by filtrations, immunographic separation (IMS) and (iMS), immunomagnetic separation immunofragrieuc separation (MS), and immunofluorescence assay microscopy (FA). Cryptosporidium may be confirmed using 4'6-diamidino-2-phenytindole (DAPI) vital dye staining and differential interference contrast (D.I.C.) microscopy.

Keywords: *Cryptosporidium, *Filtration, *Immunomagnetic separation, *Fluoroimmunoassay, *Staining, Microorganisms, Cysts, Pathogens, Parasitic diseases, Waterborne diseases, Membranes, Low sinc diseases, Waterborne diseases, Memoranes, Low concentrations, Qualitative analysis, Water pollution sampling, Water pollution detection, Test methods, Water analysis, Drinking water, Laboratory proce-dures, Quality control, *EPA Methods 1622, Immunofluorescence, Oocysts, Differential interference contrast microscopy, Detection levels.

PB98-153067REB PC A07/MF A02 Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water.

Environmental Protection Agency, Washington, DC. Office of Water.

Office of Water.
Sep 96, 112p, EPA/820/B-96/001.
See also PB95-187282.
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The purpose of these updates is to apply the methodology and datasets used in the derivation of the GLI aquatic life criteria to the national aquatic life criteria for these pollutants in fresh water.

Keywords: *Water quality data, *Aquatic biology, *Chemical compounds, *Test methods, *Ecological concentration, Aquatic animals, Aquatic insects, Water pollution effects(Animals), Chronic exposure, Acute exposure, Metals, Pesticides, Insecticides, GLI(Great Lakes Initiative).

PB98-153075REB PC A04/MF A01 Bacterial Water Quality Standards for Recreational Waters (Freshwater and Marine Waters). Status Report. Environmental Protection Agency, Washington, DC.

Standards and Applied Science Div. May 98, 40p, EPA/823/R-98/003. See also PB98-152994.

See also PB98-152994.

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On May 23, 1997, EPA Administrator Carol Browner announced the U.S. Environmental Protection Agency's new Beaches Environmental Assessment, Closure, and Health (BEACH) Program. The goal of the BEACH program is to significantly reduce the risk of infection to users of the nation's recreational waters through improvements in recreational water programs, communication, and scientific advances. The purpose communication, and scientific advances. The purpose of the Status Report is to provide a brief overview of the bacterial water quality standards that have been adopted by states for their marine and fresh recreational waters in the United States. Tables contain updated information on the bacterial water quality standards that have been adopted by states, territories and tribes. The standards are also described in more detail. The summary is organized first by EPA region, and then by state, territory, and tribe within each region.

Keywords: "Bacteria, "Water quality standards, "Sea water, "Fresh water, "States(United States), Microorganisms, Water pollution effects, Pathogens, Regional analysis, Environmental health, Public health, Outdoor recreation, Guidelines, BEACH program.

PB98-153083REB PC A08/MF A02 PB98-153083REB PC AUBMR AUZ Reregistration Eligibility Decision (RED): Diphenylamine. (Includes RED Facts: Diphenylamine Fact Sheet). Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.

Apr 98, 148p, EPA/738/R-97/010. See also PB98-153042.

See also PB98-153042.
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This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of diphenylamine (DPA). Section I is the introduction. Section II describes diphenylamine, its uses, data re-Section II describes diphenylamine, 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 diphenylamine. Section V discusses the reregistration requirements for diphenylamine. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision.

Keywords: *Diphenylamine, *Pesticides, Amines, Plant growth regulators, Toxicity, Risk assessment, Hu-mans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Reregistration, n-Phenylbenzeneamine, Storage scald, Storage acald, Use patterns, CAS 122-39-4.

PC A02/MF A01 PB98-153091REB Red Facts: Butralin. Fact sheet. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. May 98, 8p, EPA/738/F-98/009. See also PB98-153109.

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This fact sheet summarizes the information in the RED document for registration case 2075, Butralin. Butralin. is a dinitroaniline herbicide used as a plant growth regulator on flue-cured and air-cured tobacco.

Keywords: *Pesticides, Plant growth regulators, Herbicides, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Butralin, *Reregistration, Dinitroanilines, USe patterns, CAS 33629-47-9.

PB98-153109REB PC A09/MF A02 PB98-153109HEB PC A09/MF A02
Reregistration Eligibility Decision (RED): Butralin.
(Includes RED Facts: Butralin Fact Sheet).
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
May 98, 154p, EPA/738/R-98/009.

May 98, 1549, EPA/738/H-98/009.
For Fact Sheet only, see PB98-153091.
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The U.S. Enviornmental Protection Agency (referred to as the 'the Agency') has completed its reregistration eligibility decision of the pesticide active ingredient 4-(1,1-dimethylethyl) -N-(1-methylpropyl) -2,6-dinitrobenzenenamine, also known as butralin.

Keywords: *Pesticides, Plant growth regulators, Herbicides, Toxicity, Risk assessment, Humans, Animals, cases, 10xxxy, Hisk assessment, Humans, Animais, Exposure, Environmental transport, Chemical prop-erties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Butralin, "Reregistration, Dinitroanilines, USe patterns, CAS 33629-47-9.

PB98-153117REB PC A02/MF A01 PESP-13311/HEB PC AUZ/MF A01
RED Facts: 'Bacillus thuringlensis'. Fact sheet.
Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Mar 98, 6p. EPA/738/F-98/001.
See also PB98-153125.

See also PB98-133125.

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This fact sheet summarizes the information in the RED document for reregistration case 0247, Bacillus occurrent for reregization case 0.247, bacilius thuringiensis is a group of similar bacteria that act as insecticides wich are used on gorwing agricultural corps, harvested crops in storage, ornamentals, bodies of water, and around the home to control various groups of insects, depending on the particular toxins, known as delta-endotoxins, produced by the specific isolate of Bacillus thuringiensis

Keywords: "Bacillus thuringiensis, "Pesticides, Bacteria, Microorganisms, Insecticides, Bilogical pest control, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Reregistration, Use patterns.

PC A10/MF A02 PB98-153125REB PC A10MF A02
Reregistration Eligibility Decicion (RED): 'Bacillus thuringlensis'. (Includes RED Facts: 'Bacillus thuringlensis').
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Mar 98, 180p, EPA/738/R-98/004.
See also PB98-153117.

See also PB98-1331T/.
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This document presents the Agency's decision regarding the registration eligibility of the registered uses of the microbial pesticide, Bacillus thuringiensis. Section I is the introduction. Section II describes Bacillus thuringiensis, its uses, data requirements and regulatory history.

Keywords: "Bacillus thuringiensis, "Pesticides, Bacteria, Microorganisms, Insecticides, Bilogical pest control, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, "Reregistration, Use patterns.

PC A06/MF A01 PB98-153133REB Environmental Protection Agency's White Paper on 'Bacillus thuringiensis' Plant-Pesticide Resist-

Environmental Protection Agency, Washington, DC. Office of Pesticides and Toxic Substances.

May 98, 92p, EPA/739/S-98/001. See also PB98-153117 and PB98-153125.

See also PB98-153117 and PB98-153125.

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The purpose of this paper is to analyze data generated The purpose of this paper is to analyze data generated in the 1996 gorwing season for current resistance management plans for Bacillus thuringiensis plant-pesticides for Bt potato, Bt corn and Bt cotton, identify technical modifications that might improve approaches to resistance management, identify areas of ongoing research, and determine what might be required in the future for successful implementation of long-term (sustainable) resistance management for Bt plant-pesticides in these and other crops.

Keywords: "Bacillus thuringiensis, "Potatoes, "Com, "Maize, "Cotton plants, "Resistance, Plant physiology, Plant breeding, Bacteria, Biological pest control, Integrated pest management.

PB98-153141REB PC A17/MF A03 PC A17/MF A03
National Sediment Bioaccumulation Conference.
Proceedings. Held in Bethesda, Maryland on September 11-13, 1996.
Environmental Protection Agency, Washington, DC.
Office of Water.

Feb 98, 360p, EPA/823/R-98/002.
Details in illustrations may not be fully legible in micro-

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During September 11-13, 1996, the U.S. Environmental Protection Agency (EPA) sponsored the National Sediment Bioaccumulation Conference in Bethesda, Maryland. The purpose of this conference was to present the current state of our knowledge of assessment of bioaccumulative sediment contaminants and to discuss how bioaccumulation data are integrated into EPA's decision-making processes.

Keywords: *Bottom sediments, *Bioaccumulation, *Water pollution effects, *Meetings, Biological accumulation, Contaminants, Environmental health, Aquatic biology, Aquatic ecosystems, Biological communities, Food chains, Public health, Risk assessment, Sampling, Field tests, Laboratory tests, *Bioenergetics.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. National Air Pollutant Emission Trends, 1900-1996. Technical rept.

Pechan (E.H.) and Associates, Inc., Durham, NC. S. V. Nizich, T. Pierce, A. A. Pope, P. Carlson, and B. Barnhard. Dec 97, 210p, EPA/454/R-97/011.
Contract EPA-68-D7-0067

Available in original stock only. See also PB97-155329. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

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tries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document presents the most recent estimates of national emissions of the criteria air pollutants. The emissions of each pollutant are estimated for many different source categories, which collectively account for all anthropogenic emissions. The report presents the total emissions from all 50 States and from each EPA region in the country.

Keywords: "United States, "Air pollution monitoring,
"Trends, Air pollution sources, Air pollution sampling,
Carbon monoxide, Nitrogen oxides, Sulfur dioxide,
Lead(Metal), Particulates, Emission factors, Regional
analysis, Sectoral analysis, Natural sources, Anthropogenic sources, Toxic substances, Hazardous mateand Study estimates. Greenburge ages Metals polrials, Study estimates, Greenhouse gases, Mobile pollutant sources, Stationary pollutant sources, bles(Data), Graphs(Charts).

PC A22/MF A04 PB98-153166REB PISS-153166REB PC A22/MF A04
Development Document for Proposed Effluent
Limitations Guidelines and Standards for the
Landfills Point Source Category.
Environmental Protection Agency, Washington, DC.
Engineering and Analysis Div.
Jan 98, 490p, EPA/821/R-97/022.
See also PB98-152887 and PB98-154040.
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The proposed regulations for the Landfills industry include effluent limitation guidelines and standards for the control of wastewater pollutants. This document presents the information and rationale supporting these proposed effluent limitations guidelines and

Keywords: *Landfills, *Water quality standards, *Water pollution control, *Point sources, *Chemical effluents, Earth fills, Ground disposal, Solid waste disposal, Mu-Earth fills, Ground disposal, Solid waste disposal, Municipal wastes, Water water treatment, Waste streams, Clean Water Act, Best technology, Operating procedures, Environmental impacts, Economic analysis, Pollution regulations, Requirements, Guidelines, Treatment technology, POTW(Publicly Owned Treatment Works), RCRA(Resource Conservation and Recovery Act), Conditionally exempt small quantity generators, BPT(Best Practicable Control Technology Currently Available), BCT(Best Conventianl Pollutant Control Technology), BAT(Best Available Technology Economically Achievable), NSPS(New Source Performance Standards), PSES(Pretreatment Standards for New Sources). for New Sources).

PB98-153174REB PC A02/MF A01 Update: Listing of Fish and Wildlife and Advisories, March 1998. Fact Sheet.

Environmental Protection Agency, Washington, DC.

Office of Water

Mar 98, 8p, EPA/823/F-98/009. See also PB98-102932.

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The 1997 update for the database, includes all available information describing state, tribal, and federally issued fish consumption advisories in the United States for the 50 states, the District of Columbia, and for US territories and has been expanded to include the 13 Canadian provinces and territories. 12 Canadian provinces and territories.

Keywords: *Fish, *Wildlife, *Food consumption, *Databases, Bioaccumulation, Trends, Terrestrial ecosystems, Aquatic ecosystems, Water pollution effects, Food chains, Public health, Health hazards, Risk, Mercury(Metal), Polychlorinated biphenyls, Chlordan, Dioxins, DDT, Pesticides, United States, Canada, *Health advisories.

PB98-153182REB PC A12/MF A03 Development Document for Proposed Effluent Limitations Guidelines and Standards for Indus-trial Waste Combustor Subcategory of the Waste Combustors Point Source Category.

Environmental Protection Agency, Washington, DC.

Office of Water.

Jan 98, 232p, EPA/821/B-97/011. See also PB98-152879.

See also PB98-152879.

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EPA has proposed technology-based limits for the dis-EPA has proposed technology-based limits for the dis-charge of pollutants into navigable waters of the United States and into publicly-owned treatment works by ex-isting and new facilities that are engaged in combus-tion of industrial waste from off-site facilities - the In-dustrial Waste Combustor Subcategory of the Waste Combustors Point Source Category.

Keywords: *Industrial wastes, *Combustors, *Water quality standards. *Water pollution control. *Points regwords: industrial wastes, community standards, "Water pollution control, "Points sources, "Chemical effluents, Incinerators, Furnaces, Boilers, industrial waste treatement, Waste water treat-ment, Waste streams, Clean Water Act, Best tech-nology, Operating procedures, Environmental impacts, Economic analysis, Pollution regulations, Requirements, Guidelines, Treatment technology, POTW(Publicly Owned Treatment Works), Economic analysis, Pollution regulations, Trequitements, Guidelines, Treatment technology, POTW(Publicly Owned Treatment Works), RCRA(Resource Conservation and Recovery Act), Conditionally exempt small quantity generators, BPT(Best Practicable Control Technology Currently Available), BCT(Best Corriventiant Pollutant Control Technology), BAT(Best Available Technology Economically Achievable), NSPS(New Source Performance Standards), PSES(Pretreatment Standards for New Sources), PSNS(Pretreatment Standards for New Sources). New Sources).

PB98-153190REB PC A06/MF A02

PB96-153190REB PC A06/MF A02
Environmental Assessment of Proposed Effluent
Limitations Guidelines and Standards for Industrial Waste Combustors. Volume 1.
Environmental Protection Agency, Washington, DC.
Standards and Applied Science Div.
Jan 98, 100p, EPA/821/B-97/009.
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Port Royal Road, Springfield, VA, 22161, USA.

This environmental assessment quantifies the water quality-related benefits associated with achievement of the proposed BAT (Best Available Technology) and PSES (Pretreatment Standards for Existing Sources) PSES (Pretreatment Standards for Existing Sources) controls for commercial industrial waste combustors (IWCs). Based on site-specific analyses of current conditions and changes in discharges associated with the proposal, the U.S. Environmental Protection Agency (EPA) estimated instream pollutant concentrations for 17 priority and nonconventional pollutants from direct and indirect discharges using stream dilution modeling. The potential impacts and benefits to aquatic life are projected by comparing the modeled instream pollutant concentrations to published EPA aquatic life criteria guidance or to toxic effect levels. Potential adverse human health effects and benefits are projected by: (1) comparing estimated instream concentrations to numan neatin effects and benefits are projected by: (1) comparing estimated instream concentrations to health-based water quality toxic effect levels or criteria; and (2) estimating the potential reduction of carcnogenic risk and noncarcinogenic hazard (systemic) from consuming contaminated fish or christing water. Upper-bound individual cancer risks, population risks, and systemic hazards are estimated using modeled instrument published. eled instream pollutant concentrations and standards EPA assumptions. Modeled pollutant concentrations in EPA assumptions. Modeled pollutarit concentrations in fish and drinking water are used to estimate cancer risk and systemic hazards among the general population, sport anglers and their families, and subsistence an-glers and their families.

Keywords: "Industrial wastes, "Combustors, "Point sources, "Water pollution control, "Water quality standards, "Environmental impact assessments, "Chemical effluents, "Guidelines, Incinerators, Bollers, Furnaces, Industrial waste treatment, Environmental impacts, Aquatic biology, Public health, Risk assessment, Toxicity, Water pollutants, Discharge(Water), Pretreatment, Statistical analysis, POTW(Public)

Owned Treatment Works), BAT(Best Available Technology Achievable), PSES(Pretreatment Standards for Existing Sources).

PB98-153208REB PC A08/MF A02 **EPA's Contaminated Sediment Management Strat-**

egy.
Environmental Protection Agency, Washington, DC.
Office of Water.

Apr 98, 136p, EPA/823/R-98/001. See also PB94-214657.

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Contaminated sediments are a significant source of fish contamination, causing a human health risk, par-ticularly to children and the recreational and subsistence fishers that consume fish. The contaminated sediments are a significant source of fish contamina-tion, causing a human health risk, particularly to chil-dren and the recreational and subsistence fishers that consume fish. The contaminated sediment may also adversely effect aquatic life living in and around the sediment.

Keywords: "Bottom sediments, "Contamination, "Water pollution control, "Water pollution abatement, US EPA, Environmental policy, Government policies, Water pollution effects, Dredging, Dredged materials, Environmental health, Aquatic ecosystems, Biological communities, Food chains, Watershed, Public health, Monitoring, Pollution prevention, Source reduction.

PB98-154016REB PC A08/MF A02 Environmental Assessment for the Proposed Effluent Guidelines for the Landfills Point Source Category, Volume 1.

Environmental Protection Agency, Washington, DC. Standards and Applied Science Div.

Jan 98, 126p. See also PB98-152887 and PB98-153166. See also PB98-152887 and PB98-153166. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This environmental assessment quantifies the water-quality-related benefits associated with achievement of quanty-related beneats associated with achievement of the proposed BAT (Best Available Technology) and PSES (Pregtreatment Standards for Existing Sources) controls for hazardous and nonhazardous landfills. Based on site-specific analyses of current conditions and changes in discharges associated with the proposal, the U.S. Environmental Protection Agency (EPA) estimated in-stream pollutant concentrations for 65 priority and nonconventional pollutants from direct 65 priority and nonconventional pollutants from direct and indirect discharges using stream dilution modeling. EPA assessed the potential impacts and benefits to aquatic life by comparing the modeled in-stream pollutarit concentrations to published EPA aquatic life criteria guidance or to toxic effect levels. EPA projected potential adverse human health effects and benefits by: (1) comparing estimated in-stream concentrations to health-based water quality toxic effect levels or criteria; and (2) estimation the potential protuction of carteria; teria; and (2) estimating the potential reduction of car-cinogenic risk and noncarcinogenic hazard (systemic) from consuming contaminated fish or drinking water. Estimates of upper-bound individual cancer risks, population risks, and systemic hazards result from mod-eled in-stream pollutant concentrations and standard EPA assumptions. The assessment evaluates modeled pollutant concentrations in fish and drinking water to estimate cancer risk and systemic hazards among the general population, sport anglers and their families, and subsistence anglers and their families.

Keywords: "Landfills, "Point sources, "Water pollution control, "Water quality standards, "Environmental impact assessments, "Chemical effluents, "Guidelines, Earth fills, Ground disposal, Municipal wastes, Solid waste disposal, Environmental impacts, Aquatic biology, Public health, Risk assessment, Toxicity, Water pollutants, Discharge(Water), Pretreatment, Statistical analysis, POTW(Publicly Owned Treatment Works), BAT(Best Available Technology Achievable), PSES(Pretreatment Standards for Existing Sources).

PB98-154024REB PC A12/MF A03

Environmental Protection Agency, Washington, DC.
Multimedia Risk Assessment Branch.
Investigation of Alternative Means for Demonstrating Sewage Sludge Incinerator Compliance with Total Hydrocarbon Emission Standards. Draft rept. Pacific Environmental Services, Inc., Herndon, VA. Feb 97, 236p, EPA/822/R-98/001. Contract EPA-68-D2-0162

Sponsored by Environmental Protection Agency, Washington, DC. Multimedia Risk Assessment Branch.

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The purposes of this study were: (1) to determine if there is a relationship between the concentrations of carbon monoxide (CO) and unburned organic matter (THC) in the exit gas from sewage sludge incinerators; (2) To measure the concentration of THC in the exit (2) To measure the concentration of THC in the exit gas from 'well operated' sewage sludge incinerators; (3) To measure the concentrations of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDD) in the exit gas from sewage sludge incinerators; and (4) To study the relationship between incinerator operating conditions (including final hearth temperature) and exit THC concentrations.

Keywords: "Sewage sludge, "Hydrocarbons, "Incinerators, "Air pollution control equipment, "Emissions, Furnaces, Carbon monoxide, Polychlorinated dibenzofurans, Polychlorinated dibenzodioxins, Dioxins, Furans, Air pollution sampling, Stack gases, Scrubbers, Standards compliance, Sludge treatment, Sewage treatment plants, Waste water treatment, Emission rates, THC (Total Hydrocarbons).

PB98-154040REB PC A06/MF A02 Economic and Cost-Effectiveness Analysis of Pro-posed Effluent Limitations Guidelines and Stand-ards for the Landfills Point Source Category.

Environmental Protection Agency, Washington, DC. Engineering and Analysis Div. Jan 98, 100p, EPA/821/8-97/005. See also PB98-152887, PB98-153166 and PB98-153190.

153190.

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This Economic Analysis (EA) Assesses the economic This Economic Analysis (EA) Assesses the economic impact of the proposed effluent limitation guidelines and standards for the Landfills Industry Category. This rulemaking proposes limitations of each type, but PSES and PSNS limitations are proposed only for hazardous waste landfills.

Keywords: "Landfills, "Point sources, "Economic analysis, "Cost effectiveness, "Water pollution control, "Water quality standards, Earth fills, Ground disposal, Hazardous materials, Municipal wastes, Solid waste disposal, Water pollution sources, Water pollutants, Water pollution economics, Environmental impacts, Economic Impact, Social impact, Guidelines, Nonhazardous wastes, POTW(Publicty Owned Treatment Works), BPT(Best Practicable Control Technology Currently Available), BCT(Best Conventional Pollutant Control Technology), BAT (Best Available Technology Economically Achievable), NSPS(New Source Performance Standards), PSES(Pretreatment Standards for Existing Sources), PSNS(Pretreatment Standards for New Sources), Regulatory Flexibility Analysis.

PB98-155005REB PC A04/MF A01 PB98-155005REB PC A04/MF A01
SAB Report: Review of ORD'S Pollution Prevention Research Strategy. Review of the Office of Research and Development's Draft Pollution Prevention Research Strategy by the Environmental Engineering Committee.

Environmental Protection Agency, Washington, DC.

Science Advisory Board. Jul 98, 50p, EPA/SAB/EEC-98/008. See also PB96-175385.

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(703)605-6900; and email orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

At the request of the Office of Research and Develop ment (ORD), the Environmental Engineering Committee (EEC) of the Science Advisory Board (SAB) reviewed the draft Pollution Prevention Research Stratviewed the draft Foliation Freehald Research Strategy. In general, implementation of the strategy is likely to produce results that will improve the Agency's capacity in pollution prevention and reduce risks to human health and the environment. The programs and projects highlighted in the draft strategy are reasonable and largely justifiable. The long-term goals developed for the research strategy are consistent with the mission statement. The strategy could be strengthened by documenting the decision process as well as the prod-uct of those decisions, including the translation of longterm goals into specific projects

Keywords: "Strategic planning, "US EPA, "Research programs, "Program administration, Research management, Program management, Mission analysis, Goals, Decision, *Office of Research and Development, *Pollution prevention.

PB98-155047REB PC A03/MF A01 Evaluation of an IAQ Source Management Strat-

evaluation of an IAQ Source management Strategy for a Large Building.

Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. M. A. Mason, B. A. Tichenor, L. E. Sparks, M. Black, D. B. Henschel, and R. N. Kulp. 1998, 14p.

Prepared in cooperation with Air Quality Sciences, Atlanta GA.

lanta, GA.

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EPA conducted a pilot study to evaluate source management and control strategies used in the design, construction, and commissioning of a new large building. Strategies employed to minimize volatile organic compound (VOC) contamination in the occupied building. ing included selection of low emitting materials, staged construction and installation of materials and furnishings, and a 90-day 100% outdoor air flush prior to occupancy. Air Quality Science (AQS) collected both the source emission rate data generated in product compli-ance testing and those to characterize building ventila-tion rates and VOC concentrations before, during, and after the flush out. The source loading and emis rate data, building characteristics, and ventilation data were input into an indoor air model. Predicted VOC were input into an indoor air model. Predicted VOC concentrations were compared with those observed which remained above predicted for at least 30 days beyond the 90-day flush out. Predominant VOC emissions were characteristic of a carpet tile installed on four of six floors. It is concluded that long term product emissions tests may be necessary to characterize some products and that a strategy is needed to ensure that installed products are representative of products tested for compliance.

Keywords: "Commercial buildings, "Indoor air quality, "Air pollution control, "Air pollution abatement, Office buildings, Indoor air pollution, Design analysis, Con-struction materials, Building materials, Air pollution sources, Ventilation systems, Air flow, Flow rates, Emissions, Air infiltration, Mathematical models, Volatile organic compounds.

PB98-155054REB PC A03/MF A01 Proceedings of the Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Test Methods for Determining Short and Long Term VOC Emissions from Latex Paint. Acurex Environmental Corp., Research Triangle Park,

K. Krebs, H. C. Lao, R. Fortmann, and B. Tichenor.

K. Krebs, H. C. Lao, R. Fortmann, and B. Ikmenor. 1998, 14p, EPA/600/A-98/093.
Contract EPA-68-D4-0005
Presented at EPA/AWMA Conference 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at

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The paper discusses an evaluation of latex paint (interior, water based) as a source of indoor pollution. A major objective of the research is the development of methods for predicting emissions of volatile organic compounds (VOCs) over time. Test specimens of painted gypsumboard are placed in dynamic flow-through test chambers. Samples of the outlet air are collected on Tenax sorbents and thermally desorbed for analysis by gas chromatography/flame ionization detection. These tests produce short- and long-term data for latex paint emissions of Texanol, 2-2(-butoxyethoxy)-ethanol, and glycols. Evaluation of the data shows that most of the Texanol emissions occur within the first few days, and emissions of th glycols occur over several months. This behavior may be described by an evaporative mass transfer process that dominates the short-term emissions, while long-term emissions are limited by diffusion processes within the dry paint-gypsumboard.

Keywords: *Latex, *Paints, *Emissions, *Test methods *Air pollution sampling, Test chambers, Environmental tests, Air pollution detection, Sorbents, Gypsum, Glycols, Indoor air pollution, Flame ionization, Gas chromatography, *Volatile organic compounds,

PB98-155062REB PC A03/MF A01
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Effervescent Atomization at Low Air/Liquid Ratios.
Purdue Univ., West Lafayette, IN. Thermal Sciences
and Propulsion Center.
J. Sutherland, M. Panchagnula, P. E. Sojka, M. W.
Plesniak, and J. P. Gore. 1998, 14p, EPA/600/A-98/

Grant FPA-R-822618

Details in illustrations may not be fully legible in micro-Details in illustrations may not be fully legible in micro-fiche. Presented at the Environmental Protection Agency/Air and Waste Management Association Con-ference, Engineering Solutions to Indoor Air Quality Problems, Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Coetral Div. and Control Div.

and Control UN.

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The paper discusses the performance of a new type of The paper discusses the performance of a new type of consumer product aerosol dispenser that allows the substitution of water for volatile organic compound solvents and air for hydrocarbon propellants. A key result is the production of sprays whose Sauter mean diameters are 70 micrometers and below for air/liquid ratios by mass of < 1%. High speed photographic and three-dimensional focused holographic images clearly demostrate a difference in the near nozzle when compared to an earlier design. Both designs exhibit a tree-like breakup regime, but a larger number of smaller lignered are present in the current nozzle. In addition aments are present in the current nozzel. In addition, the unstable ligaments appear to break up at much shorter wavelengths, resulting in smaller drops being

Keywords: "Aerosols, "Atomizers, "Material substi-tution, Consumer products, Sprayers, Nozzles, Propel-lants, Aerosol generators, Water, Air, Environmental chemical substitutes, Atomizing, Spraying, Design analysis, Surface tensions, Viscosity, Air pollution abatement, Pollution prevention, Effervescence, Air/ lies id setion. liquid ratios.

PB98-155070REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Susceptibility of Fiberglass Duct Liner to Fungal ("Penicillium chrysogenum") Growth.
Research Triangle Inst., Research Triangle Park, NC.
K. K. Foarde, D. W. VanOsdell, and J. C. S. Chang.
1998, 14p, EPA/600/A-98/104.
Grant EPA-R-822642

Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses the susceptibility of fiberglass The paper discusses the susceptibility of fiberglass duct liner to fungal (Penicillium chrysogenum) growth. Three fiberglass duct liners, one of which contained a bound biocide. Were tested using a recently developed method for evaluating fungal resistance. Each sample was inoculated with P. chrysogenum and incubated in a static chamber controlled at 97% relative humidity (PLI) and 21 Controlled at 97% relative humidity (RH) and 21 C for 6 weeks. Culturable spores on each sample were enumerated before and after incubation to determine the extent of fungal growth. The results indicated that newly purchased fiberglass duct liner samples, as received from local vendors, have different fungal resistances. No amplification of the P. chrysogenum was detected on two of the three liners carrysogenum was detected on two of the tirree liners tested; however, significant fungal growth was detected on the third. Wetting the samples with sterile water enhanced the susceptibility of two of the liners to fungal growth, but not the third. However, soiling the samples with dust collected from residential heating and air-conditioning systems significantly enhanced the susceptibility of all three liners to fungal growth. Even the fiberglass duct liner containing blocide supported fungal growth after soiling.

Keywords: "Fiberglass reinforced plastics, "Fungi, "Penicillium chrysogenum, "Space HVAC systems, "Indoor air pollution, Ducts, Liners, Ventilation systems, Heating equipment, Air conditioning equipment, Air pollution sampling, Test chambers, Spores, Biocides, Fungal resistance.

PB98-155088REB PC A03/MF A01 Ground Water Remediation of Chromium Using Zero-Valent iron in a Permeable Reactive Barrier. National Risk Management Research Lab., Ada, OK. R. W. Puls, R. M. Powell, C. J. Paul, and D. Blowes.

R. W. Puls, R. M. Powell, C. J. Paul, and D. Blowes. 1998, 16p, EPA/600/A-98/108.
Pub. in Book Chapter. American Chemical Society, San Francisco, CA., April 13-17, 1997. Presented at 'Field Testing of Innovative Subsurface Remediation Technologies' Symposium. Prepared in cooperation with Powell and Associates Science Services, Las

with Powell and Associates Science Services, Las Vegas, NV. and Waterloo Univ. (Ontario). Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

A series of laboratory experiments were performed to elucidate the chromium transformation and precipitation reactions caused by the corrosion of zero-valent iron in water-based systems. Reaction rates were determined for chromate reduction in the presence of different types of iron and in systems with iron mixed with aquifer materials. Various geochemical parameters were measured to confirm the proposed reactions. Laboratory experiments were scaled up to pilot and full-scale field demonstrations. Intensive geochemical sampling in the field tests corroborate laboratory resairbing in the field rests consolrate laboratory results and successfully demonstrate the effectiveness of this innovative in situ approach to remediate chromate-contaminated ground water using a permeable reactive barrier composed of zero-valent iron.

Keywords: *Ground water, *Permeability, *Barriers, *Chemical reactivity, *Chromium, *Water pollution control, Water treatment, Corrosion tests, Laboratory tests, Performance evaluation, Reaction kinetics, Heavy metals, Aquifers, Geochemistry, Remediation, *Zero-valent iron.

PC A03/MF A01 Park, NC. Air Pollution Prevention and Control Div.
Characterization of Aerosol Consumer Products.
Georgia Inst. of Tech., Atlanta.
C. W. Bayer, and R. F. Browner. May 95, 14p, EPA/
600/A-98/107.

Grant EPA-R-822007

Presented at the Environmental Protection Agency/Air and Waste Management Association Conference, Engineering Solutions to Indoor Air Quality Problems, Re-search Triangle Park, NC., July 24-26, 1995. Spon-sored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control

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customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses the development of a mass spectral interface that will allow for the characterization of both the particulate and gaseous phases of an aerosol consumer product by interfacing an electron mobility analyzer with an atmospheric triple quadrupole mass arrayzer with an arricspheric triple quadrupole mass spectrometer. The ultimate goal is to apply this technology to the development of lower-emitting aerosol consumer products—furthering the quest for maximum pollution prevention. The paper presents the progress of the interface under development and the data collected to date.

Keywords: "Consumer products, "Aerosols, "Mass spectra, 'Spraying, Particles, Gases, Particulates, Atomizing, Characterization, Volatility, Spectral analy-sis, Mass spectrometers, Electron mobility, Air pollution abatement, Pollution prevention.

PC A03/MF A01 PR98-155104REB Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Characterization of the Usefulness of the Field and Laboratory Emission Cell (FLEC) for the Evaluation of Emissions from Engineered Wood Prod-

Acurex Environmental Corp., Research Triangle Park,

N. F. Roache, and E. M. Howard. 1998, 14p, EPA/600/ A-98/106. Contract EPA-68-D4-0005

Presented at EPA/AWMA Conference 'Engineering

Presented at EPA/AWMA Conference 'Engineering Solutions to Indoor Air Quality Problems, Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper characterizes the usefulness of the Field and Laboratory Emission Cell (FLEC), a small portable microchamber used to evaluate emissions from planar surfaces. The FLEC is a stainless steel disk with a surfaces. The FLEC is a stamess steel cisk with a lathed cavity that is sealed onto the surface to be tested, making the source an integral part of the microchamber. Primary goals of this project were to collect information to specify test parameters for future laboratory testing and to identify the needs of this method for the field use of the FLEC on engineered wood products. ucts. Secondary goals were to identify compounds emitted and determined emission rates from several engineered wood cabinet components. Tests were conducted to evaluate the performance of the FLEC as a tool for determining emmissions from engineered wood products under field conditions. The paper presents initial test results for two commercially available series initial test results for two commercially available (titchen cabinets, constructed from different types of engineered wood with various laminates and coatings. Classes of compounds that were identified as emis-sions include alcohols, aldehydes, aromatics, caroxylic

Keywords: "Wood products, "Laminates, "Test chambers, "Emissions, "Air pollution sampling, Coatings, Formaldelryde, Alcohols, Aldehydes, Aromatics, Ketones, Carboxylic acids, Portable equipment, Utilization, Characterization, Indoor air pollution, Field and Laboratory Emission Cell.

PB98-155112REB PC A03/MF A01

PB98-155112REB PC A03/MF A01 Increases in Levels of Breathable Fine Particulates Due to the Application of Carpet Fresheners in a Suburban Home.

Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. R. S. Steiber. 1998, 26p. EPA/600/A-98/100.

Presented at EPA/AWMA Conference, "Engineering Solutions to Indoor Air Quality Problems", Research Triangle Park, NC., July 24-26, 1995.

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The paper gives results of a study in which two carpet fresheners were applied to the carpet of a suburban home. Data are presented on increases in background concentrations of breathable fine particulates 1.0 micrometer in diameter and smaller, both before and after vacumming. Information on particulate buildup due to periodic reapplications is also presented, and the build-up patterns are tracked over a period of months. The data show that there is a measurable increase in breathable fines after each application, but that the increase is transitory, lasting from 24 to 48 hours.

Keywords: "Residential buildings, "Carpets, "Fines, "Particulates, Indoor air pollution, Ecological concentration, Particle size, Vacuum systems, Air pollution control, Airborne particles, Deodorizers.

PB98-155120REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Microbiological Screening of the Indoor Air Qual-

ity in a Large Building.
Research Triangle Inst., Research Triangle Park, NC.
D. W. VanOsdell, K. K. Foarde, K. E. Leese, and R. N.

D. W. VanOsdell, K. K. Foarde, K. E. Leese, and R. N. Kulp. 1998, 14p, EPA/600/A-98/099.

Grant EPA-R-822870

See also PB95-243085. Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Prevention and Control Div.

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The paper gives results from a microbiological screening study of noncomplaint five-story office building in Florida, conducted to generate baseline data that could Florida, conducted to generate baseline data that could be used as part of a study of the impact of ventilation system design and operation on microbiological contamination. The study was part of a research program into the impact of increased outdoor air rates. The field study was conducted over a 2-day period in the spring of 1994. Microbiological sampling included bioaerosol, bulk material, heating, ventilation, and air-conditioning condensate, and floor dust measurements. The overall impression of the building was that of a clean well-maintained structure. Although most of the sampling results were consistent with those of a non-problem results were consistent with those of a non-problem building, the analyses demonstrated possibly elevated with those of non-problem building, the analyses dem-onstrated possibly elevated level of Penicitium at two sites within the building.

Keywords: "Microorganisms, "Air pollution sampling, "Indoor air quality, "Office buildings, Commercial build-ings, Ventilation systems, Heating equipment, Air con-ditioning equipment, Space HVAC systems, Design analysis, Aerosols, Penicillium, Bulk materials, Dust, Indoor air pollution, Bioaerosols.

PC A03/MF A01 PB98-155138REB Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. VOC Removal at Low Contaminant Concentra-

VOC Removal at Low Contaminant Concentra-tions Using Granular Activated Carbon. Research Triangle Inst., Research Triangle Park, NC. D. W. VanOsdell, M. K. Owen, L. B. Jaffe, and L. E. Sparks. 1998, 14p, EPA/600/A-98/098. Grant EPA-R-817083-01 Presented at EPA/AWMA Conference 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency. Research Triangle Environmental Protection Agency, Research Triangle crivronmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper reports results of research involving tests of small-scale beds of granular activated carbon (GAC), using challenges of volatile organic compounds (VOCs) in air at concentrations ranging from approximately 0.5 to 100 ppm. The research linked the performance of GAC from birth-concentration cuickly formance of GAC from high-concentration quickly completed tests to performance at low concentrations near those encountered indoors. For all tests, the carbon

bed was approximately 2.54 cm thick and operated with a residence time of 0.11 s. The tests were conducted at 25 C and 50% relative humidity. The measured 10% breakthrough times ranges from about 0.5 to several hundred hours. For the individual compounds, the relationship between the logarithms of break-through time and concentration was approximately lin-ear over the experimental range, with different compounds producing lines having different slopes. The measured breakthrough times compared favorably to published data and models. The results suggest that higher-concentration single-component breakthrough tests, which are short and easily obtained, may be cautiously extrapolated to indoor concentrations for these compounds.

Keywords: "Air pollution control, "Removal, "Indoor air pollution, "Low concentrations, Activated carbon treatment, Granular bed filters, Air cleaners, Ecological concentration, Ventilation systems, Space HVAC systems, "Volatile organic compounds, "Granular activated extrop vated carbon.

PC A03/MF A01 PB98-155146REB Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Comparison of Design Specifications for Three Large Environmental Chambers.
National Research Council of Canada, Ottawa (On-

tario).

E. M. Howard, M. A. Mason, J. Zhang, and S. Brown.
1998, 12p, EPA/600/A-98/097.

Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Prepared in cooperation with Commonwealth Scientific and Industrial Research Organization, Victoria (Australia). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div

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The paper compares design specifications for three large (room-sized) environmental chambers. The targe (100m-sized) environmental citaliness. In chambers, while intended for similar purposes (for use in characterizing sources of indoor air pollution), have been designed and constructed by Australian, Canadian, and U.S. government research organizations to different specifications. The first phase of the interlab-oratory comparison study consists of a comparison of the design specifications and construction of the three systems. The three systems show many characteris-tics in common. Each has a sealed room-sized polishd stainless steel chamber, with an air supply that is filtered, dehumidified, passed through activated carbon to remove volatile organic compounds, and condi-tioned to an appropriate temperature and relative hu-midity. There is built-in capability to sample for indoor air emissions, and sense temperature and relative hu-midity. Construction materials and components were selected for their ease of disassembly and re-assembly for cleaning.

Keywords: "Test chambers, "Environmental tests, "Design criteria, "Specifications, "Air pollution sampling, Emissions, Indoor air pollution, Temperatue control, Relative humidity, Interlaboratory comparisons, Construction, Indoor air quality, Volatile organic compounds.

PB98-155153REB PC A03/MF A01 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Aerosol Filtration Efficiency of In-Duct Air Clean-

Research Triangle Inst., Research Triangle Park, NC. J. T. Hanley, D. S. Ensor, and L. E. Sparks. 1998, 14p, EPA/600/A-98/095.
Grant EPA-R-817083-01

Grant EPA-H-817083-01
Presented at EPA/AWMA Conference, 'Engineering Solutions to Indoor Air Quality Problems', Research Triangle Park, NC., July 24-26, 1995. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Park, NC. Air Pollution Prevention and Control Dv. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fectworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The paper discusses the evaluation of the fractional ef-The paper discusses the evaluation of the fractional efficiency of several common ventilation air cleaners. The air cleaners included fiberglass furnace filters, paper-media filters, and electrostatically charged fiber cleaners. Results showed that filtration efficiency is cleaners. Results showed that initiation enticetry is highly particle size dependent over a 0.01-10 micrometer size range. Filtration efficiency was also seen to be dependent upon flow rate and the dust load condition of the air cleaner.

Keywords: *Air cleaners, *Aerosols, *Filtration, *Efficiency, Filter, Membranes, Air pollution control, Fiberglass reinforced plastics, Ducts, Space HVAC systems, Ventilation systems, Electrostatic charge, Paper, Dust, Particle size, Flow rates, Indoor air pollution.

PC A24/MF A04 Environmental Protection Agency, Las Vegas, NV. Na-

Environmental Protection Agency, Las Vegas, NV. National Exposure Research Lab.

Descriptive Statistics Tables from a Detailed Analysis of the National Human Activity Pattern Survey (NHAPS) Data.

Lockheed Martin Environmental Systems and Technologies, Las Vegas, NV.

A. M. Tsang, and N. E. Klepeis. Jul 96, 534p, EPA/600/ R-96/148.

R-96/148.

Contract EPA-68-01-7325

Sponsored by Environmental Protection Agency, Las Vegas, NV. National Exposure Research Lab.

Vegas, NV. National Exposure Research Lab.
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Port Royal Road, Springfield, VA, 22161, USA.

Detailed results tables are presented from an unweighted statistical analysis of selected portions of the 1992-94 National Human Activity Pattern Survey (NHAPS) data base. This survey collected data on the potential exposure of Americans to important houshold pollutants. Randomly selected individuals (9,386) supplied minute-by-minute diaries spanning a 24-hour day as well as follow-up questions on specific exposure types. Selected 24-hour diary locations and activities, selected regroupings of the 24-hour diary locations, activities, and smoker-present categories, and most of the follow-up question variables in the NHAPS data base were statistically analyzed across 12 subgroups (gender, age, Hispanic, education, employment, census region, day-of-week, season, asthma, angina and bronchitis/emphysema). Overall statistics were also generated for the 9,386 total respondents. Tables show descriptive statistics (including frequency distributions) of time spent and frequency of occurrence in each of 39 locations and for 22 activities (that were experienced by more than 50 respondents), along with equivalent tables for 10 regrouped locations (Residence-Indoors, Residence-Outdoors, Inside Vehicle, Near Vehicle, Other Outdoor, Office/Factory, Mall/Store, Public Building, Bar/Restaurant, Other Indoor), seven regrouped activities (No Exposure, Food Preparation, Laundry/Dishes, Housekeeping, Bathing/Washing, Yardwork/Maintenance, Sports/Exercise, Eating/ ration, Laundry/Dishes, Housekeeping, Bathing/Washing, Yardwork/Maintenance, Sports/Exercise, Eating/ Dinking), and Smoker Present. Tables of frequency distributions of time spent in exposure activities, or the distributions of time spent in exposure activities, or the frequency of occurrence of exposure activities, as determined from the follow up questions that were analyzed are also presented. Detailed indices provide page numbers for each table. An Appendix contains a condensed listing of the questionnaires (Versions A and B for adults, child-direct and child-proxy interview types), including the question number, the NHAPS data base variable name, and the verbatim question text.

Keywords: "Environmental exposure, "Indoor air pollution, "Human activities, "Statistical data, "Surveys, Air pollution monitoring, Public health, Health hazards, Risk assessment, Factor analysis, Statistical analysis, Tables(Data), "NHAPS(National Human Activity Pattern Survey), "National Human Activity Pattern Survey.

PC A04/MF A01 PC A04/MF A01
Toxicological Review of Cumene (CAS No. 98-82-8) in Support of Summary Information on the Integrated Risk Information System.
Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.
G. L. Foureman. Jun 97, 40p, NCEA-S-0032, EPA/835/R-98/N01 PB98-155211REB

635/R-98/001.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may re sult from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS petinent to Cumene, CAS No. 98-82-8.

Keywords: *Cumene, *Toxicity, *Environmental expo-sure, *Health hazards, *Dose-response relationships, *Risk assessment, Alkylated aromatics, Toxicity, Inha-lation, Oral dosage, Chronic exposure, Carcinogens, lation, Oral oosage, Chronic exposure, Carcinogens, Bioassay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, Isopropyl benzene, 1-(methylethyl)-benzene, 2-phenylpropane, CAS 98-82-8, IRIS(Integrated Risk Information System). Toxicokinetics.

PB98-155229REB PC A06/MF A01 Toxicological Review of Chiordane (Technical) (CAS No. 12789-03-6) in Support of Summary Information on Integrated Risk Information System

Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.

R. E. McGaughy. Dec 97, 80p, NCEA-S-0327, EPA/635/R-98/003.

635/R-98/003.

See also PB90-168709 and PB95-100111.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency

database of U.S. Environmental Protection Agency consensus positions on the health effects that may result from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS pertinent to Chlordane (Technical)(CAS No. 12789-03-6).

Keywords: "Chlordan, "Toxicity, "Environmental exposure, "Health hazards, "Dose-response relationships, "Risk assessment, Insecticides, Toxicology, Inhalation, Oral dosage, Reproduction(Biology), Chronic expoure, Carcinogen, Bioassay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, CAS 56-35-9, IRIS (Integrated Risk Information System), Toxicokinetics System), Toxicokinetics.

PB98-155237REB PC A05/MF A01 Toxicological Review of Tributyttin Oxide (CAS No. 56-35-9). In Support of Summary Information on the Integrated Risk Information System (IRIS). Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment. R. Benson. Jul 97, 56p, NCEA-S-0170, EPA/635/R-98/

002.

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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may result from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS petinent to Tributyltin Oxide (CAS No. 56-35-9).

Keywords: "Tributyltin, "Oxides, "Toxicity, "Environmental exposure, "Health hazards, "Dose-re-sponse relationships, "Risk assessment, Organotins, Wood preservatives, Biocides, Toxicology, Inhalation, Oral dosage, Immune system, Neurotoxins, Chronic exposure, Carcinogens, Bioassay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, CAS 56-35-9, IRIS(Integrated Risk Infor-mation System), Toxicokinetics.

PB98-155245REB PC A06/MF A01
Toxicological Review of Methyl Methacrylate (CAS
No. 80-62-6) in Support of Summary Information
on the Integrated Risk Information System (IRIS). Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.
J. S. Gift. Jan 98, 86p, NCEA-S-0413, EPA/635/R-98/ 004.

004.
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The Integrated Risk Information System (IRIS) is a database of U.S. Environmental Protection Agency consensus positions on the health effects that may result from chronic exposure to various chemicals found in the environment. The purpose of this Toxicological Review is to provide scientific support and rationale for the hazard identification and dose-response information in IRIS petinent to Methyl Methacrylate (CAS No. 80-62-6).

Keywords: *Methyl methacrylate, *Toxicity, *Environmental exposure, 'Health hazards, *Dose-response relationships, *Risk assessment, Toxicology, Inhalation, Oral dosage, Chronic exposure, Metabolism, Excretion, Carcinogens, Bioassay, Dose rates, Factor analysis, Epidemiology, Chemical properties, Physical properties, CAS 56-35-9, IRIS(Integrated Risk Information System), Toxicokinetics.

PB98-155666REB PC A10/MF A02 Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

Risk Analysis to Support Standards for Lead in Paint, Dust, and Soil. Volume 2. Appendices B to

G.

Battelle, Columbus, OH.

Jun 98, 190p, EPA/747/R-97/006.

See also Volume 1, Appendix A, PB98-155674. Sponsored by Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

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orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

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Appendix C1-Characterizing Baseline Environmental-Lead Levels in the Nation's

Housing Stock;
Appendix C-2 Method for Computing Confidence
Intervals Associated with Estimates in the Exposure Assessment and Risk Characterization:

Appendix D1-Assumptions and Scientific Evidence to Account for the Effect of Pica for Paint;
Appendix D2-Results of Three Published MetaAnalyses on the Relationship Between IQ Point
Loss and Childhood Blood-Lead Levels;
Appendix E1-Methodology for Estimating Health
Effects From Blood-Lead Distrubtion;

Appendix E2-Generating Distribution of Blood-Lead Concentrations Based on Model-Predicted Geometric Mean and Geometric Standard Deviation:

Appendix F1-Methodology for Estimating Post-Intervention Distribution of Children's Blood-Lead Concentrations Resulting from Proposed Section 402 Rules:

Appendix F2-Estimation of Primary Prevention Efficacy Using Model of Bone-Lead Mobilization:

and Appendix G-Health Effects Associated with Exposure to Lead and Internal Lead Doses in

Keywords: *Risk analysis, *Lead(Metal), *Paints, *Dust, *Soil contamination, *Health hazards, *Standards, Lead poisoning, Public health, Children, Risk assessment, Toxicity, Biological availability, Bio-accumulation, Environmental exposure pathway, Dose-response relationships, Health effects, Ecological concentration, Blood chemical analysis, Residential buildings, Mathematical models, Toxic Substances Control Act Residential Lead-Based Paint Hazard Re-Control Act, Residential Lead-Based Paint Hazard Reduction Act of 1992, IEUBK(Integrated Exposure Uptake Biokinetic)

PB98-155674REB PC A17/MF A03 Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Risk Analysis to Support Standards for Lead in Paint, Dust, and Soil. Volume 1. Chapters 1 to 7. Appendix A.
Battelle, Columbus, OH.

battene, Columbus, OH.
Jun 98, 364p, EPA/747/R-97/006.
See also Volume 2, Appendices B to G, PB98-155666.
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This report presents the methods and findings of a risk analysis, which provides a scientific foundation for the regulatory standards that the Agency will establish in response to section 403. This risk analysis consists of two parts. Part I (Chapters 2 through 5) constitutes the risk assessment, or EPA's assessment of the health risks to young children from exposures to lead-based paint hazards, lead-contaminated dust, and lead-contaminated soil in the nation's housing. Part II (Chapter 6) constitutes an analysis of risk management options, which includes the Agency's approach to estimating how these risks are reduced following promulgation of the section 403 rule and illustrates use of this methodology for a broad range of example options for the odology for a broad range of example options for the section 403 standards.

Keywords: "Risk analysis, "Lead(Metal), "Paints, "Dust, "Soil contamination, "Health hazards, "Standards, Lead poisoning, Public health, Children, Risk assessment, Toxicity, Biological availability, Bioaccumulation, Environmental exposure pathway, Dose-response relationships, Health effects, Ecological concentration, Blood chemical analysis, Residential buildings. Mattheratical mediate. Toxics: Subtraces car contentation, Broot of Princial analysis, Trestrented buildings, Mathematical models, Toxic Substances Control Act, Residential Lead-Based Paint Hazard Reduction Act of 1992, IEUBK(Integrated Exposure Uptake Biokinetic).

PR98-156516REB PC A15/MF A03

PB98-156516REB PC A15/MF A03
Electric Power Research Inst., Palo Alto, CA.
Consequence Analysis for ISC-PRIME. Final rept.
ENSR Corp., Acton, MA.
R. J. Paine, and F. Lew. cNov 97, 318p.
See also PB98-156524. Sponsored by Electric Power
Research Inst., Palo Alto, CA. and Environmental Protection Agency, Research Triangle Park, NC.
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product from NTIS by: phone at 1-800-553-NTIS (U.S.
customers); (703)605-6000 (other countries); fax at
(703)605-6900; and email at
orders@ntis.fedworld.gov. NTIS is located at 5285
Port Royal Road, Springfield, VA, 22161, USA.

Aerodynamic building downwash is a phenomenon Aerodynamic building downwash is a phenomenon caused by eddies created by air movement around building obstacles. Through the use of the Industrial Source Complex (ISCST3) model, EPA modeling guidelines have incorporated these effects in ground-level concentration calculations. In 1992, the Electric Power Research Institute (EPRI) decided to embark upon a program (project PRIME: Plume Rise Model Enhancements) to design a new downwash model to correct the deficiencies in the ISCST3 model. The resulting downwash module, PRIME, has been installed in the ISCST3 model as a replacement for the current algorithm; the resulting model is referred to as "ISC-PRIME". This report describes the design of the model test runs involved and provides a summary of the retest runs involved and provides a summary of the re-sults with comments on the differences between the

Keywords: "Air pollution dispersion, "Air pollution sources, "Plumes, "Computer models, Diffusion modeling, Atmospheric diffusion, Atmospheric transport, Stack gases, Buildings, Ecological concentration, Flow characteristics, Aerodynamics, Ground level, Point sources, Mixing height, Urban areas, Rural areas, "ISCST3 model, "ISC-PRIME model, ISCST(Industrial Source Complex Short Term), PRIME(Plume Rise Model Enhancements), Downwash. Model Enhancements), Downwash,

PB98-156524REB PC A99/MF E08 Electric Power Research Inst., Palo Alto, CA.
Results of the Independent Evaluation of ISCST3
and ISC-PRIME. Final rept. ENSR Corp., Acton, MA.

ENSR Corp., Acton, MA.

R. J. Paine, and F. Lew. cNov 97, 844p.

See also PB98-156516. Sponsored by Electric Power Research Inst., Palo Alto, CA. and Environmental Protection Agency, Research Triangle Park, NC.

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Aerodynamic building downwash is an important part of air quality dispersion modeling. The Electric Power Research Institute (EPRI) initiated a development program to address deficiencies in the downwash algorithms in the Industrial Source Complex (ISCST3) air dispersion model. The result of the project is a set of algorithms called PRIME (Plume Rise Model Enhancements) which were added to ISCST3. The new model was called ISC-PRIME. As part of the project, EPRI contracted with ENSR to prepare an independent evaluation of ISC-PRIME using a model evaluation protocol negotiated with the U.S. EPA. This report describes the databases used in the evaluation and the results of the model performance evaluation. the model performance evaluation.

Keywords: "Air pollution dispersion, "Gaussian plume models, "Computer models, "Performance evaluation, Atmospheric diffusion, Diffusion modeling, Atmospheric transport, Stack gases, Plumes, Turbulence, Wakes, Flow characteristics, Wind velocity, Aerodynamics, Air pollution sources, Tracer studies, Algorithms, Data bases, "ISCST3 model, "ISC-PRIME model, ISCST(Industrial Source Complex Short Term), PRIME(Plume Rise Model Enhancements),

PB98-157813REB PC A05/MF A01 Guideline for Selecting and Modifying the Ozone Monitoring Season Based on an 8-Hour Ozone Standard.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Jun 98, 54p, EPA/454/R-98/001.

Jun 98, 54p, EPA/454/R-98/001.

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This document provides guidance for the EPA Regional Offices to select and modify the ozone monitoring seasons designated for each State in the Code of Federal Regulations (40 CFR 58, Appendix D). Modifications to the original ozone monitoring seasons have been made periodically as new data and information became available; each of these changes has been incorporated into existing ambient air monitoring regulations. These seasons are important because they play a significant role in the estimation of annual ozone NAACS exceedances and provide the basis for cal-NAAQS exceedances and provide the basis for cal-culations in the Aerometric Information Retrieval Sys-tem (AIRS) summary files. The monitoring seasons tem (AIRS) summary lies. The monitoring seasons may also be tied to certain State emission regulations. With the 1997 revisions to the National Ambient Air Quality Standards (NAAQS) for ozone (i.e., the addition of a maximum 8-hour average ozone concentration of 0.08 ppm), it has become necessary to redefine tion of U.0s ppm), it has become necessary to receiming the come monitoring season for purposes demonstrating attainment. The principal motivation is to develop an understanding of the characteristics of the ozone monitoring season based on the new standard. Another motivation for this guideline document is that reductions in required monitoring can result in considerable cert equipme. able cost savinos.

Keywords: *Ozone, *Air pollution monitoring, *Seasons, *Air pollution standards, Pollution regulacoasurs, Air polition standards, Politition regula-tions, Selection, Modification, Data collection, Stand-ards, Compliance, States(United States), Cost reduc-tion, Guidelines, National Ambient Air Quality Stand-ards, Attainment.

PC A11/MF A03 Assessment of Thyrold Follicular Cell Tumors.
Environmental Protection Agency, Washington, DC.
Risk Assessment Forum. Mar 98, 220p, EPA/630/R-97/002.

Supersedes PB98-133118. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at

(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Report presents science policy guidance that describes the procedures the Agency will use in the evaluation of potential human cancer hazard and dose-reuation of potential human cancer hazard and dose-re-sponse assessments from chemicals that are animal thyroid carcinogens. The Forum Report describes when, under clearly specified conditions, chemical car-cinogenesis in thyroid follicular cells can be analyzed as a nonlinear phenomenon, rather than assuming low dose linearity as EPA customarily does for carcino-genic compounds. Four hypothetical cases are sum-marized which illustrate how to evaluate toxicological data and make hazard and dose-response estimation choices. The procedures and considerations devel-oned in the Forum Report embody currenty scientific oped in the Forum Report embody currenty scientific knowledge of thyroid carcinogenesis and evolving science policy.

Keywords: "Thyroid neoplasms, "Dose-response relationships, "Risk assessment, "Infants, "Children, Folicular phase, Carcinogens, Hazardous materials, Health hazards, Turnors, Cells(Biology), Toxicology.

PB98-158264REB PC A03/MF A01
Pesticide Registration (PR) Notice 98-5. Notice to
Manufacturers, Producers, Formulators and Registrants of Pesticide Products. New Forms for the
Certification with Respect to Citation of Data. Environmental Protection Agency, Washington, DC.

Office of Pesticide Programs. 12 Jun 98, 16p, EPA/730/N-98/004.

12 Jun 98, 16p, EPA/730/N-98/004.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Office of Pesticide Programs (OPP) of the Environmental Protection Agency (EPA) announces new forms for citation of data to support the registration or reregistration of pesticide products, EPA Forms 8570-34 ('Certification with Respect to Citation of Data') and 8570-35 ('Data Matrix'). Form 8570-34 replaces Forms 8570-29 and 8570-29 and 8570-35 replaces Forms 8570-20 and the 'Blue Book Sample Matrix Format.' The same forms will be used for the registration, reregistration and special review of pesticides.

Keywords: "Pesticides, "Certification, "Forms(Paper), Registration, Data collection, Regulations, Administrative procedures, US EPA, Reregistration, FIFRA(Federal Instecticide Fungicide and Rodenticide Act).

PB98-158470REB PC A18/MF A03 Environmental Protection Agency, Washington, DC. Indian River Lagoon Comprehensive Conservation and Management Plan.

Indian River Lagoon National Estuary Program, Melbourne, FL. Nov 96, 380o.

Nov 96, 36Up.
See also PB97-198360. Sponsored by Environmental Protection Agency, Washington, DC., Saint Johns River Water Management District, Palatka, FL. and South Florida Water Management District, West Palm

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With the publication of the Indian River Lagoon Comprehensive Conservation and Management Plan (IRLCCMP), more than 100 agencies and local governments with management responsibilities for the Lagoon have agreed on a united strategy to preserve the fragile balance between man and nature which has lured so many of us to this special and beautiful place. The IRLCCMP contains 68 recommended actions addressing critical problems, such as the preservation of wetlands, seagrass restoration, endangered species protection, water and sediment quality improvement, land acquisition needs, and the means of funding preservation and restoration activities. All of these actions

have the express purpose of protecting the integrity, diversity and productivity of the unique resource the authors know as the Indian River Lagoon.

Keywords: *Indian River, *Lagoons, *Watershed management, *Resource management, Water quality, Resource conservation, Environmental protection, Species diversity, Planning, Citizen participation, Florida, East Central Coast(Florida), National Estuary Pro-

PB98-158538REB PC A05/MF A01
National Emission Standards for Hazardous Air
Pollutants (NESHAP) for the Aerospace Manufacturing and Rework Industry: Background Information for Promulgated Standards. Addendum.
Environmental Protection Agency, Research Triangle
Park, NC. Office of Air Quality Planning and Standards.
Jan 98, 70p.
See also PB07-172470

See also PB97-172472.

See also PB9/-1/24/22.

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On September 1, 1995, the U.S. Environmental Protection Agency (EPA) promulgated national emission standards for hazardous air pollutant (HAP) emissions from major sources in the aerospace industry (60 FR 45948). There were 18 comment letters (see Table 1-1) submitted by 19 different commenters, which competed primarily of trarte especiations. Ty submitted by 19 different commenters, which con-sisted primarily of trade associations, component sup-pliers and State and local air pollution control agencies. Summaries of the comments, and the EPA's re-sponses, are presented in this document. This comment summary and the Agency's responses served as the basis for the revisions (amendments) made to the final NESHAP. This report also includes a discussion of the changes made to the draft CTG in finalizing the CTG document

Keywords: "Air pollution standards, "Air pollution control, "Aerospace industry, "Pollution regulations, Surface coating, Painting, Cleaning, Solvents, Air pollution monitoring, Air pollution sources, Waste management, Record keeping, Reporting, Notification procedures, Requirements, Clean Air Acts, Environmental impacts, Expendical in the Computation of Administration Economic impact, Standards compliance, Administra-tive procedures. Comments. Responses. Economic impact, Standards compiliance, Administra-tive procedures, Comments, Responses, "NESHAP (National Emission Standards for Hazardous Air Pollutants), "National Emission Standards for Hazardous Air Pollutants, Rework facilities, Best Available Technology, New Source Performance Standards, Fu-gitive emissions, Volatile organic compounds, MACT (Maximum Achievable Control Technology), CTG/Control Technology (Audelines). CTG(Control Technology Guidelines).

PC A07/MF A02 PR98-158553RFR Clean Water Action Plan: Restoring and Protect-ing America's Waters. Environmental Protection Agency, Washington, DC.

1998, 112p.

Prepared in cooperation with Department of Agri-

Prepared in cooperation with Department of Agriculture, Washington, DC.
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The authors are pleased to submit the enclosed Clean Water Action Plan on behalf of the Department of Agrivoter Action Fair on behalf of the Department of Agricy, and the other federal agencies that assisted us in its development. Over the past 25 years, America has made outstanding progress in reducing water pollution and restanding progress in reducing water pollution and restoring our rivers, lakes and coastal waters. In communities across the country, restoration of water quality has had dramatic environmental, recreational, and economic benefits. Despite this progress, serious water pollution problems persist. States report that about 40 percent of the waters they assessed do not meet water quality goals. About half of the nation's over 2,000 major watersheds have serious or moderate water quality problems. This Clean Water Action Plan provides a blueprint for restoring and protecting the nation's precious water resources. A key element in the Action Plan is a new cooperative approach to watershed protection in which state, tribal, federal, and local governments, and the public first identify the watersheds with the most critical water quality problems and then work together to focus resources and implement effective strategies to solve those problems. The Action Plan also includes a new initiatives to reduce public health threats, improve the stewardship of natural resources, strengthen polluted runoff controls, and make water quality information more accessible to the

Keywords: "Water pollution control, "Watershed, "Water reclamation, Water management, Water runoff, Agricultural runoff, Legislation, State government, Natural resource management, Environmental assessment, Drinking water, Federal government, Grants, Water quality, Standards, Local government, Water treatment.

PB98-158611REB PC A04/MF A01 Illegal Dumping Prevention Guidebook. Environmental Protection Agency, Chicago, IL. Region

Mar 98, 38p, EPA/905/B-97/001.

Mar 98, 38p, EPA/905/B-97/001.

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The information presented in this guidebook is based on a study conducted to characterize illegal dumping in urban and rural areas throughout the upper Midwest. The study included tours of neighborhoods and interviews with local government officials, community groups, and industry representatives. In addition, a literature and Internet search was conducted to gather information on successful illegal dumping prevention

Keywords: Solid waste disposal, Sites, Guides, Land pollution, *Dumping, *Illegal activities, *Pollution prevention, Midwest Region(United States).

PC A07/MF A02

PB98-158686REB PC A07/MF A02
Profile of the Air Transportation Industry. EPA Office of Compliance Sector Notebook Project.
Environmental Protection Agency, Washington, DC.
Office of Enforcement and Compliance Assurance.
Feb 98, 106p, EPA/310/R-97/001.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at 0703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285
Port Royal Road, Springfield, VA, 22161, USA.

The air transportation sector can be broken down into two categories: (1) facilities providing scheduled, non-scheduled, and air courier services using aircraft, and (2) airports and airport operations. It is these two major topics (i.e., aircraft facilities and airports) and the activities and operations that occur within each of these areas that are the primary focus of this notebook.

Keywords: *Air transportation, *Environmental im-Reywords: "Air transportation, "Environmental Impacts, "Pollution control, "Pollution abatement, Civil aviation, Commercial aircraft, Transport aircraft, Cargo transportation, Airline operations, Air pollution, Land pollution, Pollution regulations, Environmental protection, Environmental policy, Standards compliance, Law enforcement, Sectoral analysis.

PB98-158694REB PC A08/MF A02 Community-Based Environmental Protection: A Resource Book for Protecting Ecosystems and

Environmental Protection Agency, Washington, DC. Office of Policy, Planning and Evaluation. Sep 97, 144p, EPA/230/B-96/003.

Sep 97, 144p, EPA/230/B-96/003.

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This publication draws on the experiences of many different communities to provide examples of community-based environmental programs and key approaches, information, and other tools that communities are

Keywords: *Ecosystems, *Environmental protection, *Communities, *Citizen participation, Environmental

health, Pollution control, Pollution abatement, Remediation. Habitat improvement, Environmental policies, Program management.

PB98-159429REB PC A09/MF A02 Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

Office of Pollution, Prevention, and Toxics.

Conversion Equations for Use in Section 403

Rulemaking. Final rept.

Battelle Memorial Inst., Columbus, OH.

J. Kinateder, A. Katz-Stein, and S. Collins. Dec 97,
156p, EPA/747/R-96/012.

Contract EPA-68-D5-0008

See also PB97-135578. Sponsored by Environmental Protection Agency, Washington, DC. Office of Pollution Prevention and Toxics. tion, Prevention, and Toxics.

uon, Prevention, and Toxics.
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This report presents equations used to carry out various conversions between wipe lead loadings and vac-uum lead loadings and vacuum concentrations, based on two different vacuum samplers, the Blue Nozzle (used in the HUD National Survey) and the BRM (used in the Baltimore Repair and Maintenance study). These equations were developed for use in the determination of health-based standards of environmental lead in residential settings as required by Section 403 of Title IV TSCA. Various equations were derived to facilitate the development of a proposed set of options for the Section 403 standards, to enable a risk analysis of these options to be conducted, and to provide a means of predicting the post-Section 403 blood-lead levels nationally.

Keywords: *Lead(Metal), *Dust, *Equations, *Conversion, *Statistical analysis, Residues, Windows, Floors, Vacuum cleaners, Collecting methods, Data quality, Environmental transport, Measurement, Sampling, Error analysis, Regression analysis, Adjustments, "Section 403, Wiping, BN(Blue Nozzle), BRM(Baltimore Repair and Maintenance).

PB98-159767REB PC A05/MF A01 Environmental Protection Agency, Denver, CO. Region VIII.

eterans Affairs Medical Center Pollution Preven-

tion Assessment. Final rept. Tetra Tech EM Inc., Denver, CO. M. May, M. Keefe, and C. Bowman. Jun 98, 70p, EPA/ 908/R-98/001. Contract EPA-68-W4-0004

Sponsored by Environmental Protection Agency, Denver, CO. Region VIII.

ver, CO. Hegion VIII.

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The report presents the results of a pollution prevention (P2) assessment of the Denver Veterans Affairs Medical Center (VAMC). The facility consists of patients wards; surgical facilities; clinical, radiology, histology, and research laboratories; pharmacy; morgue; nursing home; office space, maintenance facilities; and a food court and kitchen. The audit report concluded a food court and kitchen. The audit report concluded that the greatest savings in water costs could be realized by reducing domestic and once-through cooling water use. The report suggested installing flow restrictors on flush-valve tiolets, replacing tank toilets with low-volume toilets, installing aerators on sink faucets, and eliminating all once-through cooling units through use of close-loop systems and equipment references.

Keywords: *Medical centers, *Waste management, Hospitals, Laboratories, Medical wastes, Material sub-stitution, Materials replacement, Pollution abatement, Waste recycling, Solid wastes, Hazardous materials, Waste water disposal, Water utilization, Feasibility studies, *Pollution prevention, Veterans Affairs Medical Center, Denver(Colorado), Infectious wastes.

PB98-159882REB PC A99/MF A06 Environmental Protection Agency, Research Triangle Park, NC. Emission Factor and Inventory Group.

Locating and Estimating Air Emissions from Sources of Polycyclic Organic Matter. Final rept. Eastern Research Group, Morrisville, NC. Jul 98, 686p, EPA/454/R-98/014. Contract EPA-68-D7-0068

Contract EPA-68-D7-0068
See also PB88-149059. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Emission Factor and Inventory Group.
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This document presents information on (1) the types of sources that may emit polycyclic organic matter, (2) process variations and release points that may be emitted within these sources, and (3) available emissions information indicating the potential for polycyclic organic matter releases into the air from each operation. Its intended audience includes Federal, State and local air pollution personnel and others interested in locating potential emitters of polycyclic organic mat-ter and in making estimates of air emissions therefrom.

Keywords: "Organic matter, "Polycyclic aromatic hydrocarbons, "Air pollution sources, "Emissions, "Position(Location), "Estimating, Point sources, Stationary pollutant sources, Mobile pollutant sources, Sectoral analysis, Emission factors, Encinerators, Combustion products, Petroleum refineries, Industry, Engines, Napththalene, Metals industry, Paper industry, Manufacturing, Emission inventories, Hazardous air pollutants, Fugitive emissions.

PB96-159906REB PC A99/MF A06 National Air Pollutant Emission Trends Pro dures Document, 1900-1996; Projections 1999-2010. Technical rept.

2010. Technical rept.
Environmental Protection Agency, Research Triangle Park, NC, Office of Air Quelity Planning and Standards. S. V. Nizich. 1 Jun 98, 720p, EPA/454/R-98/008.
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Data from this report has also been used for the Bien-Data from this report has also been used to the bier-nial Assessment report, the Air Quality Trends report, the Industrial SO2 Report to Congress, and the 1994 Report to Congress. The emission estimates devel-oped and included in the Emission Trends data base have been utilized to support development of the National Particulates Inventory, in support of recent eval-uations of the particulate matter and ozone NAAQS, in uations of the particulate matter and ozone NAACIS, in support of the FACA process, and in support of the CAA Section 812 retrospective analysis. The procedures document provides information on the methods and data used in the beforementioned report. Methods for calculating 1900-1996 and project estimates for 1999-2010 are also included.

Keywords: "United States, "Air pollution monitoring, Trends analysis, Air pollution sources, Mobile pollut-ant sources, Stationary pollutant sources, Air pollution ant sources, Stationary pollutant sources, Air pollution sampling, Carbon monoxide, Nitrogen oxides, Sulfurdioxide, Lead(Metal), Particulates, Combustion products, Emission factors, Regional analysis, Canada, Sectoral analysis, Natural sources, Anthropogenic sources, Clean Air Act, Study estimates, Greenhouse gases, Tables(Data), Graphs(Charts), *Emission inventories, Volatile organic compounds, Biogenics, NAAQS(National Ambient Air Quality Standards), FACA(Federal Advisory Committee Act).

PC A99/MF A06 PB98-159916REB Locating and Estimating Air Emissions from

Sources of Benzene.
Environmental Protection Agency, Research Triangle
Park, NC. Office of Air Quality Planning and Standards.
Jun 98, 586p, EPA/454/R-98/011.
See also PB88-196175.

See also PD88-1961 /5.

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This document presents information on (1) the types of sources that may emit benzene; (2) process variations

and release points for these sources; and (3) available emissions information indicating the potential for ben-zene releases into the air from each operation. Its in-tended audience includes, federal, state and local air pollution personnel and others interested in locating potential emitters of benzene and in making gross estimates of air emissions therefrom.

Keywords: "Benzene, "Air pollution sources, "Emission, "Position(Location), "Estimating, Point sources, Stationary pollutant sources, Mobile pollutant sources, Sectoral analysis, Emission factors, Industry, Manufacturing, Wellheads, Incinerators, Combustion products, Construction materials, Waste treatment, Waste disposal, Gasoline, Emission inventories, Hazardous air pollutants, Fugitive emissions, CAS 71-43-

PC A03/MF A01 PB98-159924REB Zeolite: A Versatile Air Pollutant Adsorber. Technical bulletin (Final).

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Jul 98, 30p, EPA/456/F-98/004.

Jul 98, 30p, EPA/456/1-98/004.

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The purposes of this paper are to make you familiar with zeolite, what it can contribute to control of air pollution — particularly control of Volatile Organic Compounds (VOC) — and what to expect in the future.

Keywords: "Zeolites, "Adsorbents, "Air pollution control, Adsorption, Porosity, Catalysts, Ion exchange materials, Synthesis(Chemistry), Volatile organic compounds.

PC A06/MF A01 PB98-161185REB Environmental Protection Agency, Washington, DC.
Site Remediation Technology InfoBase: A Guide
to Federal Programs, Information Resources, and
Publications on Contaminated Site Cleanup Tech-

Publications on Contaminated Site Cleanup Technologies. First Edition.
Federal Remediation Technologies Roundtable.
Aug 98, 80p, EPA/542/B-98/006.
Contract EPA-68-W6-0014
See also PB98-108590 and PB97-132542. Sponsored by Environmental Protection Agency, Washington, DC. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Table of Contents: Federal Cleanup Programs; Federal Site Remediation Technology Development Assistance Programs; Federal Site Remediation Technology Development Electronic Data Bases; Federal Electronic Resources for Site Remediation Technology Information; Other Electronic Resources for Site Remediation Technology Information; Other Electronic Resources for Site Remediation Technology Information; Selected Bibliography: Federal Publication on Alternative and Innovative Site Remediation; and Appendix dix: Technology Program Contacts.

Keywords: *Federal programs, *Remediation, *Information resources, Pollution control, Hazardous materials, Physical treatment, Chemical treatment, Biological treatment, Heat treatment, Research and development, Technical assistance, US DOD, US DOE, US EPA, Site characterization, Technology innovation, Information systems, Data bases, "Innovative treat-ment technologies, Cleanup, Electronic resources.

PC ADS/MF AD2 PB98-161193REB Environmental Protection Agency, Washington, DC.

Environmental Projection Agency, Washington, DC. Technology Innovation Office. NATO/CCMS Pilot Study. Evaluation of Demonstrated and Emerging Technologies for the Treatment of Contaminated Land and Groundwater (Phase 3), 1998 Annual Report. NATO Committee on the Challenges of Modern Soci-

May 98, 148p, NATO-228, EPA/542/R-98/002.
Contract EPA-68-W6-0014
See also PB95-227849. Prepared in cooperation with

Environmental Management Support, Inc., Silver

Spring, MD. Sponsored by Environmental Protection Agency, Washington, DC. Technology Innovation Office.

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This document provides a report from the first meeting of the Phase III Pilot Study and is designed to share information among countries on innovative treatment technologies. The Phase III study focuses on the technologies. rectinologies. The Phase in study rocuses of the teathern of con-taminated land and groundwater. This Phase will ad-dress issues of sustainability, environmental merit, and cost-effectiveness, in addition to continued emphasis on emerging remediation technologies. The objectives of the study are to critically evaluate technologies, pro-mote the appropriate use of technologies, use informa-tion technology systems to disseminate the products, and to foster innovative thinking in the area of contaminated land.

Keywords: *Land pollution control, *Water pollution control, *Remediation, Soil treatment, Waste treatment, Water treatment, Sludge treatment, Physical treatment, Chemical treatment, Biological treatment, Biological treatment, Biological treatment, Biological compounds, Inorganic compounds, Hydrocarbons, Solvents, Bacteria, Dechlorination, Solidification, Stabilization, Soil contamination, Case studies, *Innovative treatment technologies, Cleanup, Thermal treatment, Bioremediation.

PB98-161201REB PC A21/MF A04 Development Document for Proposed Effluent Limitations Guidelines and Standards for the Transportation Equipment Cleaning Category. Environmental Protection Agency, Washington, DC. Office of Water.

May 98, 468p, EPA/821/B-98/011. See also PB98-161219.

See also PB98-161219.

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Table of Contents:

Legal Authority; Summary and Scope; Data Collection Activities; Industry Description; Industry Subcategorization; Water Use and Wastewater Characterization;

Pollutants Selected for Regulation; Pollution Prevention and Wastewater Treatment

Technologies; Development of Control and Treatment Options:

Costs of Technology Bases for Regulations; Pollutant Reduction Estimates;

Non-Water Quality Impacts; Implementation of Proposed Effluent Limitation Guidelines and Standards; Analytical Methods; and Glossary.

Keywords: *Cleaning, *Maintenance, *Water pollution control, "Water pollution standards, Trucks, Railroads, Barges, Chemical effluents, Waste streams, Waste water treatment, Waste water disposal, Water utilizawater treatment, Waste water disposal, Water utilization, Discharge(Water), Water pollution sources, Clean Water Act, Pollution regulations, Environmental impacts, Economic impact, Cost analysis, Requirements, Best technology, Pollution prevention, New Source Performance Sources, BPT(Best Practicable Control Technology Currently Available), BAT(Best Available, PSES(Pretreatment Standards for Existing Sources), PSNS(Pretreatment Standards for New Sources), BCT(Best Conventional Pollution Control Technology).

PB98-161219REB PC A22/MF A04 Environmental Protection Agency, Washington, DC. Office of Water.

Economic Analysis of Proposed Effluent Limita-tions Guidelines and Standards for the Transpor-tation Equipment Cleaning Category. Eastern Research Group, Inc., Lexington, MA. May 98, 488p, EPA/821/B-98/012.

See also PB98-161201 and PB98-161227. Sponsored by Environmental Protection Agency, Washington, DC. Office of Water.

Orlice of Water.

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This Economic Analysis (EA) report evaluates the economic impacts resulting from effluent limitations guidenomic impacts resulting from effluent limitations guide-lines and standards proposed by the U.S. Environ-mental Protection Agency (EPA) for the transportation equipment cleaning (TEC) point source category. The proposed regulation includes limits for Best Practicable Control Technology (BPT), Best Conventional Pollut-ant Control Technology (BCT), Best Available Tech-nology Economically Achievable (BAT), New Source Performance Standards (NSPS), and Pretreatment Standards for Existing and New Sources (PSES and DSNS). The EA estimates the impacts to the TEC in-Standards for Existing and New Sources (PSES and PSNS). The EA estimates the impacts to the TEC industry of the proposed regulation in terms of effects on market equilibrium price and the number of tank cleanings performed, facility closures and associated losses in employment, and financial distress short of closure. In addition, the A analyzes secondary impacts on associated industries and their employment, potential bacteria to exterior the terminate that tial barriers to new facilities entering the industry that may be caused by the regulation, and impacts on the TEC small business community.

Keywords: "Economic analysis, "Water pollution control, "Cleaning, "Maintenance, Railroads, Barges, Trucks, Water pollution sources, Chemical effluents, Water pollution standards, Standards compliance, Water pollution economics, Economic Impact, Pretreatment, Alternatives, Clean Water Act, Costs, Finance, Employment, Small business, Market analysis, Best technology, Regulatory impact analysis.

PB98-161227REB PC A08/MF A02 Environmental Protection Agency, Washington, DC.

Environmental Protection Agency, Washington, DC. Engineering and Analysis Div. Cost-Effectiveness Analysis of Proposed Effluent Limitations Guidelines and Standards for the Transportation Equipment Cleaning Category. Eastern Research Group, Inc., Lexington, MA. May 98, 140p, EPA/821/B-98/013. See also PB98-161219 and PB98-161235. Sponsored

by Environmental Protection Agency, Washington, DC.

by Environmental Protection Agency, Washington, DC. Engineering and Analysis Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This cost-effectiveness analysis presents an evaluation of the technical efficiency of pollutant control options for the proposed Effluent Limitations Guidelines and Standards for the Transportation Equipment Cleaning Industry based on Best Available Technology Economically Achievable (BAT) and Pretreatment Standards for Existing Sources (PSES). Section 2 discusses EPA's cost-effectiveness methodology and identifies the pollutants included in the analysis. This section also presents EPA's toxic weighting factors for each pollution control option. Section 3 describes the options evaluated for each subcategory. Section 4 presents the results of the cost-effectiveness analysis. In This cost-effectiveness analysis presents an evaluasents the results of the cost-effectiveness analysis. In Section 5, cost-effectiveness values for proposed TEC industry options are compared to cost-effectiveness values for other promulgated rules. Section 6 disvalues for other promulgated rules. Section 6 dis-cusses the two-part cost-reasonableness test for BCT options. Appendix A presents data on pollutants, pol-lutant removals, and pound equivalents removed. Ap-pendix B presents data on pollutants discharged at baseline. Appendixes C and D present data on con-vertitional pollutant removals and discharges, respec-

Keywords: "Cleaning, "Maintenance, "Cost effectiveness, "Water pollution control, Barges, Trucks, Railroads, Water pollution standards, Standards compliance, Water pollution economics, Economic analysis, Cost benefit analysis, Water pollution sources, Chemical effluents, Water pollutants, Clean Water Act, Best Available Technology, TEC(Transportation Equipment Cleaning), BCT(Best Conventional Pollution Control Technology).

PB98-161235REB PC A11/MF A03 Environmental Protection Agency, Washington, DC.

Standards and Applied Science Div.
Statistical Support Document of Proposed Effluent Limitations Guidelines and Standards for the Transportation Equipment Cleaning Category. Science Applications International Corp., Reston, VA. Health and Environment Studies and Systems Div. May 98, 208p, EPA/821/B-98/014.
Contract EPA-68-C4-0046
See also PB98-161243 and PB98-161227. Sponsored

by Environmental Protection Agency, Washington, DC. Standards and Applied Science Div.

Stationards and Applied Science DIV.

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This document describes the statistical analyses of concentration in effluent wastewater from transportation equipment cleaning facilities. These statistical analyses were used in developing the proposed effluent limitations guidelines and standards in the proposed rulemaking for the Transportation Equipment Cleaning Industry (TECI). Details of all statistical analyses conducted and data used in the analyses to support the effluent limitations guidelines and standards for the TECI are provided. This document is organized into six chapters and seven appendices.

Keywords: "Water pollution control, "Statistical analysis, "Cleaning, "Maintenance, Railroads, Trucks, Barges, Facilities, Water pollution sources, Water pollution standards, Standards compliance, Waste water disposal, Water pollutants, Waste streams, Chemical effluents, Ecological concentration, Pollution regulations. tions, Clean Water Act, Data collection, Guidelines, Variability factors, Averages.

PC A09/MF A02 PB98-161243REB Environmental Protection Agency, Washington, DC.

Standards and Applied Science Div.
Environmental Assessment of Proposed Effluent
Limitations Guidelines and Standards for the
Transportation Equipment Cleaning Category.
Volume 1. Final Report.
Versar, Inc., Springfield, VA.
May 98, 174p, EPA/821/8-98/015.
Contract EPA-68-W6-0023
See also PB98-161201, PB98-161219, PB98-161227
and PB98-161237. Sponsored by Environmental Protection Agency, Washington, DC. Standards and Applied Science Div.
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This environmental assessment quantifies the water quality-related benefits for Transportation Equipment Cleaning (TEC) facilities based on site-specific analy-ses of current conditions and the conditions that would ses of current conditions and the conditions trial would be achieved by process changes under proposed BAT (Best Available Technology) and PSES (Pretreatment Standards for Existing Sources) controls. The U.S. En-vironmental Protection Agency (EPA) estimated instream pollutant concentrations for 157 priority and nonconventional pollutants from three subcategories (barge-chemical and petroleum, rail-chemical, and truck-chemical) of direct and indirect discharges using stream dilution modeling. The potential impacts and benefits to aquatic life are projected by comparing the modeled instream pollutant concntrations to published EPA aquatic life criteria guidance or to toxic effect lev-

Keywords: "Environmental impact assessments, "Maintenance, "Cleaning, "Water pollution control, "Chemical effluents, Water pollution sources, Barges, Trucks, Railroads, Water pollution standards, Standards compliance, Water pollution effects, Environmental effects, Discharge(Water), Pretreatment, Clean Water Acts, Best Available Technology, Publicly cannot treatment works owned treatment works.

PB98-163017REB National Strategy for the Development of Regional **Nutrient Criteria.**

Environmental Protection Agency, Washington, DC. Office of Water.

Jun 98, 60p, EPA/822/R-98/002.

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This National Strategy describes the approach that EPA will follow in developing nutrient information and working with States and Tribes to adopt nutrient criteria as part of State water quality standards. Some key aspects of the Strategy are described below.

Keywords: *Dose-response relationships, *Risk assessment, *Infants, *Children, Surface waters, Nitrogen, Phosphorus, Aquatic ecosystems, Trophic level, Follicular phase, Carcinogens, Hazardous materials, Health hazards, Tumors, Cells(Biology), Toxicology.

PB98-163025REB PC A05/MF A01
Water Quality Criteria and Standards Plan: PriorIties for the Future. Interim final rept.

Environmental Protection Agency, Washington, DC. Office of Water.

Jun 98, 60p, EPA/822/R-98/003.

Jun 98, 60p, EPA/822/R-98/003.

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The report describes seven new criteria and standards program initiatives that EPA will take over the next decade. The Plan presents a 'vision' and strategy for meeting these important new initiatives and improvements. The Plan will guide EPA and the States and Tribes in the development and implementation of criteria and standards and will provide a basis for enhancements to the Total Maximum Daily Load (TMDL) program, National Pollutant Discharge Elimination System (NPDES) permitting, nonpoint source control, wetlands protection and other water resources management ef-

Keywords: "Water quality standards, "Criteria, "US EPA, Water quality management, Water pollution abatement, Water resources, Nonpoint sources, Wetlands, Priorities, Planning, Implementation, Clean Water Acts, Environmental issues.

PB98-163033REB PC A15/MF A03 PC A15/MF A03
Pollution Prevention (P2) Guidance Manual for the
Pesticide Formulating, Packaging, and Repackaging Industry: Implementing the P2 Alternative.
Final rept.

Environmental Protection Agency, Washington, DC. Office of Water. Jun 98, 304p, EPA/821/B-98/017. See also PB97-124267.

See also PB97-124267.

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This Pollution Prevention (P2) manual discusses the applicability and implementation of effluent limitations guidelines and standards covering the pesticide formulating, packaging, and repackaging (PFPR) industry. The main purpose of the manual is to provide guidance to industry and permitters in the process of complying with this rule, in particular, complying with the P2 Alternative Oction.

Keywords: "Pesticides, "Chemical industry, "Water pollution control, "Chemical effluents, Packaging, Materials handling, Manufacturing, Water pollution standards, Standards compliance, Pollution regulations, Waste water treatment, Waste water disposal, Water utilization, Water resuse, Discharge(Water), Auditing, Implementation, Monitoring, Alternatives, Pollution prevention.

PB98-163108REB PC A03/MF A01 Characterization of Metal Benzotriazoles and Related Polymers.

Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. S. J. Wasson, M. C. Kerzic, J. W. Hall, M. A. Cates, and J. R. Wasson, 1998, 12p.

Prepared in cooperation with Wingate Univ., NC. Dept. of Chemistry and Physics. and Advanced Materials, New Hill, NC.

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Benzotriazole (bta-H) is well-known corrosion inhibitor for copper, copper-alloy, and other metal surfaces. Particles from these surface treatments will ultimately contribute to environmental indoor dust or outdoor industrial effluent, but they have not been fully characterdustrial effluent, but they have not been fully characterized. Bta-H is one of a group of several organic ligands which bind to transition metals and which have similar structures. We have systematically investigated approximately 30 transition metal complexes of the general formula ML(sub 2), where M = VO(2+), MN(2+), Co(2+), Ni(2+), Cu(2+), and Zn(2+), and L = deprotonated benzotriazole, imidazole, benzimidazole, 2-methylimidazole, or 2-methylibenzimidazole. Where possible, these materials have been synthesized and characterized by characterized services. characterized by chemical analysis, spectroscopy, and x-ray diffracton techniques.

Keywords: *Polymers, *Interactions, *Charcterization, Particles, Spectroscopic analysis, X-ray diffraction, Powder diffraction lines, Chemical analysis, Transition metals, Corrosion inhibitors, *Benzotriazoles.

PB96-163124REB PC A19/MF A04
RACT/BACT/LAER Clearinghouse Clean Air Technology Center: A Compliation of Control Technology Determinations. Seventh Supplement to the 1990 Edition. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Information Transfer and Program integra-

J. E. Steigerwald. Jun 97, 420p, EPA/456/R-97/002. See also PB96-195714.

See also PB96-195714.

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The basic purposes of the RBLC are to: (1) provide state and local air pollution control agencies with current information on case-by-case control technology determinations that are made nationwide, and (2) promote communication, cooperation, and sharing of control technology information among the permitting agencies. The information presented in this compilation was abstracted from personetruction permits and exhaustrated from personetruction permits and permits an cess. The mornization presented in this compliation was abstracted from preconstruction permits and submitted by the state and local air pollution control agencies and EPA regional offices. The Clearinghouse is intended as a reference for state and local agencies in making RACT/BACT/LAER decisions.

Keywords: "Air pollution control, Air pollution control equipment, Air pollution sources, Permits, Sectoral analysis, Performance standards, Air pollution standards, Standards compliance, Clean Air Acts, Pollution regulations, Industrial wastes, Airborne wastes, Indexes(Documentation), Tables(Data), "BACT(Best Achievable Control Technology, "Reconably Achievable Control Technology, "Reasonably Achievable Control Technology, "Reasonably Achievable Control Technology, "LAER(Lowest Achievable Emission Rates), "Lowest Achievable Emission Rates, New Source Performance Standards, RBLC(RACT/BACT/LAER Clearinghouse).

PC A14/MF A03 PB98-163132REB Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Locating and Estimating Air Emissions from Sources of Arsenic and Arsenic Compounds. Final

Eastern Research Group, Morrisville, NC. Jun 98, 290p, EPA/454/R-98/013. Contract EPA-68-D7-0068

Sponsored by Environmental Protection Agency, Re-search Triangle Park, NC. Office of Air Quality Planning and Standards.

ning and Standards.

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This document describes the properties of arsenic and arsenic compounds as air pollutants, defines production and use patterns, identifies source categories of air emissions, and provides emission factors. Arsenic is emitted as an air pollutant from external combustion boilers, municipal and hazardous waste incineration, primary copper and zinc smelting, glass manufacturing, copper ore mining, and primary and secondary lead smelting. Emissions of arsenic from these activities are due to the presence of trace amounts of arsenic in fuels and materials being processed. In such cases, the emissions may be quite variable because the trace presence of arsenic is not constant. Arsenic in the processed of arsenic is not constant. emissions also occur from agricultural chemical pro-duction and application, and also from metal processing due to the use of arsenic in these activities. In addition to the arsenic source information, information is provided that specifies how individual sources of ar-senic may be tested to quantify air emissions.

Keywords: "Arsenic, "Arsenic compounds, "Position(Location), "Estimating, "Air pollution sources, "Emissions, Stationary pollutant sources, Point sources, Emission factors, Sectoral analysis, Air pollu-tion monitoring, Combustion products, Boilers, Inciner-ators, Smelters, Furnaces, Manufacturing, Industrial plants, Industrial wastes, Pulp mills, "Emission inven-tories, Landfill gases, Hazardous air pollutants.

Pesticide Reregistration Progress Report for 1997. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. 1998, 62p, EPA/738/K-98/003. See also PB95-210472. Product reproduced

See also PB95-210472.
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The Pesticide Reregistration Progress Report for 1997 provides information on the status of the pesticide reregistration and Special Review programs mandated by the federal pesticide law, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). It summarizes the EPA Office of Pesticide Programs' (OPP's) cumulative progress in implementing these programs as of early 1998. This report also provides detailed information about the Reregistration Eligibility Decisions (REDs) and Special review decisions completed by the Agency during fiscal year and calendar year 1997, under new provisions of the Food Quality Protection Act (FQPA) of 1996. The Pesticide Reregistration Progress Report for 1997

Keywords: *Pesticides, Evaluation, Reviewing, Suspending, Rejection, Utilization, Administrative procedures, Toxicology, Requirements, *Reregistration, FIFRA(Federal Insecticide Act).

PB98-164668REB PC A05/MF A01
Pesticides and National Strategies for Health Care
Providers. Workshop Proceedings. Held on April
23-24, 1998.

23-24, 1998. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Jul 98, 70p, EPA/735/R-98/001. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.ledworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

in April 1998, EPA and several other federal agencies convened a workshop of experts in the field of health professional education to identify strategies for educating health care providers on how to recognize, diagnose, manage, and prevent adverse health effects from pesticide exposures.

Keywords: "Pesticides, "Health effects, "Exposure, Agricultural chemicals, Public health, Agricultural workers, Environmental health, Training, Diagnosis (Medicine), Signs and symptoms, litness, Medical services, Medical care.

PC A04/MF A01 PB98-164676REB PO AUT/MF A01
Environmental Protection Agency, Research Triangle
Park, NC. Office of Air Quality Planning and Standards.
Fabric Filter Beg Leak Detection Guidance.
Midwest Research Inst., Cary, NC.

D. Bivins. Sep 97, 38p, EPA/454/R-98/015. See also PB88-180120. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office Protection Agency, Research Triangle Park, N.C. Office of Air Quality Planning and Standards.

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This document provides guidance on the use of triboelectric monitors as fabric filter bag leak detectors. This document includes fabric filter and monitoring sys-Inis document includes fabric hiter and monitoring system descriptions; guidance on monitor selection, installation, set up, adjustment, and operation; and quality assurance procedures. The monitor set up procedure in this guidance was developed based on testing conducted on shaker and pulse-jet baghouses; however, the guidance is expected to apply to reverse air baghouses as well. bachouses as well.

Keywords: "Air pollution sources, "Leak detectors, "Triboelectricity, "Filters, Air pollution control equipment, Emissions, Filtration, Inspection, Quality assurance, Air pollution monitors, OAQPS(Office of Air Quality Planning and Standards).

PB98-165137REB PC A09/MF A02 PB9-10313/REB PC AU9/MF AU2
Environmental Protection Agency, Research Triangle
Park, NC. Air Pollution Prevention and Control Div.
Indoor Air Emissions from Office Equipment: Test
Method and Pollution Prevention Opportunities.
Final rept. Oct 93-Dec 97.

Final rept. Oct 93-Dec 97.
Research Triangle Inst., Research Triangle Park, NC.
C. Northeim, L. Sheldon, D. Whitaker, B. Hetes, and J.
Calcagni. Jul 98, 164p, EPA/600/R-98/080.
Grant EPA-R-822025

Sponsored by Environmental Protection Agency, Re-search Triangle Park, NC. Air Pollution Prevention and Control Div.

Control Div.

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The report describes the development and evaluation of a large chamber test method for measuring emissions from dry-process photocopiers. The test method was evaluated in two phases. Phase 1 was a single-laboratory evaluation at Research Triangle Institution (RTI), using four mid-range dry-process photocopiers. Phase 1 results indicated that the test method provides acceptable performance for characterizing emissions, adequately identifies differences in emissions between machines both in compound emitted and their emis-sion rates, and is capable of measuring both intra- and inter-machine variability in emissions.

Keywords: *Air pollution, *Indoor air pollution, *Occupational safety and health, Test methods, Emissions, Photocopying, Office equipment, Organic cornpounds, Pollution prevention.

PB98-165145REB PC A10/MF A03 Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

GIS-Based Model Model of Automobile Exhaust

Emissions. Final rept. Jan 97-May 98.

Georgia Inst. of Tech., Atlanta. School of Civil and En-

vironmental Engineering. W. H. Bachman. Aug 98, 194p, EPA/600/R-98/097. Grant EPA-R-823020 See also PB97-193643 and PB97-193627. Sponsored

by Environmental Protection Agency, Research Tri-angle Park, NC. Air Pollution Prevention and Control

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The report preents progress toward the development of a computer tool called MEASURE, the Mobile Emis-sion Assessment System for Urban and Regional Eval-uation. The tool works toward a goal of providing re-searchers and planners with a way to assess new mobile emission mitigation strategies. The model is based on a geographic information system (GIS) and uses modal operation (acceleration, deceleration, cruise,

and idle). Estimates of spatially resolved fleet composi-tion and activity are combined with situation-specific tion and activity are combined with situation-specific emission rates to predict engine start and running ex-haust emissions. The estimates are provided at user-defined spatial scales. A demonstration of model oper-ation is provided using a 100 sq km study area in At-lanta, Georgia. Future mobile emissions modeling re-search needs are developed from an analysis of the sources of model error.

Keywords: *Automobile exhaust, *Exhaust emission measurement, "Geographic information systems, "Air pollution monitoring, Motor vehicles, Vehicle air pollution, Mobile pollutant sources, Engine performance, Emission factors, Fleet management, Velocity, Acceleration, Travel modes, Mathematical models, Emission

PC A02/MF A01 PB98-165160REB Posticide Fact Sheet: Gamma aminobutric acid (GABA) and L-Glumatic Acid.

Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div. Aug 98, 8p, EPA/730/F-98/019.

Aug 98, 8p, EPA/730/F-98/019.
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Application of AuxiGro WP, the end-use product con-Application of Auxicito WP, the end-use product con-taining GABA an Glutamic Acids, enhances plant growth. AuxiGro WP may be used on beans, cole crops, green peppers, lettuce, peanuts, potatoes, spin-ach, tomatoes, lawn and turfgrasses, and ornamentals. Methods of application inlude both foliar and drench

Keywords: "GABA, "Aminobutyric acid, "Glutamic acid, "Pesticides, "Registration, Plant growth regulators, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, Use patterns, Biochemicals.

PC A02/MF A01

Pesticide Fact Sheet: Jojoba Oll.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.

Mar 98, 6p, EPA/730/F-98/020.

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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, "Registration, Insecticides, Insect control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Jojoba oil, Use patterns.

PC A02/MF A01 PB98-165186REB

PB98-165186REB PC A02/MF A01
Pesticide Fact Sheet: 1-Octen-3-o1, August 1988.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.
Aug 98, 6p, EPA/730/F-98/021.
See also report for Feb 96, PB96-155254.
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Octenol is intended for outdoor non-food use and is used in dispensers placed on electric bug killer sta-

*Pesticides, Keywords: *Insect attractants, Registration, Pheromones, Sex attractants, Insect attractants, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *1-Octen-3-ol, Use patterns, CAS 3391-86-4.

PR98-165194RFR PC A02/MF A01

Pesticide Fact Sheet: Kaolin (Update).
Environmental Protection Agency, Washington, DC.
Office of Pesticide Programs.
Aug 98, 10p, EPA/730/F-98/022.
See also PB98-133127.

Aug 98, 8p, EPA/730/F-98/023.

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Kaolin is to be used as an aid in control of damage to plants from insects, mites, fungi, and bacteria.

Keywords: *Kaolin, *Repellents, *Pesticides, *Registration, Insect control, Insects, Fungi, Mites, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, Use patterns, CAS 1332-58-7.

PB98-165202REB PC A02/MF A01 Pesticide Fact Sheet: Killed Fermentation Solids and Solubles of 'Myrothecium verrucaria'. Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div.

Aug 98, 8p, EPA/730/r-98/023.

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This document contains up-to-date chemical informa-tion, 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: "Fermentation, "Solids, "Pesticides, "Registration, Solubility, Nematocides, Biological pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Myrothecium verrucaria, Use patterns.

PC A02/MF A01 EPA Pesticide Fact Sheet: Hexanoic Acid. Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div.

Biopesticides and Pollution Prevention Div. Jun 98, 8p, EPA/730/F-98/024. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

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: *Hexanoic acids, *Insect attractants, *Pesticides, *Registration, Insect control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental ransport, Pollution regulations, Administrative procedures, Pest control, Biochemicals, Use patterns, CAS 142-62-1.

PC A03/MF A01 PB98-166457REB EPA Pesticide Fact Sheet: Pelargonic Acid.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.

Biopesticides and Pollution Prevention Div. Aug 98, 12p, EPA/730/F-98/025. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at 0703)605-6900; and email at orders@ntis.fectworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Pelargonic acid is registered for use as a blossom thinner, as an herbicide, and as a sanitizer,

Keywords: *Pesticides, *Registration, Plant growth regulators, Herbicides, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Pelargonic acid, Nonanoic acid, Biochemicals, Nonanoic acid, Biochemicals, Use patterns, CAS 112-05-0.

PB98-166465REB PC A02/MF A01 Pesticide Registration (PR) Notice 98-6. Notice to Manufacturers, Producers, Formulators and Registrants of Pesticide Products. Flammability Labeling Requirements for Total Release Fogger Pesticides.

Environmental Protection Agency, Washington, DC. Office of Pesticide Programs. 29 Jul 98, 10p.

29 Jul 98, 10p.

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This notice describes new labeling requirements for total release foggers and provides the procedures and time frame for compliance. It affects total release foggers containing a propellant with a flash point at or below 20 degrees Fahrenheit.

Keywords: *Pesticides, *Flammability, *Labels, Containers, Labeling, Requirements, Aerosols, Spraying, Atomizing, Propellants, Flash point, Combustion, Safety, Consumer products, Compliance, Procedures, Regulations, *Foggers.

PB98-166473REB PC A03/MF A01
Pesticide Registration Notice PR 98-4. Notice to
Manufacturers, Formulators, Producers, Distributors and Registrants of Pesticide Products. Additional Guidance on Final FIFRA Section 6(a)(2)
Regulations for Pesticide Product Registrants.
Environmental Protection Agency, Washington, DC.
Office of Pesticide Programs

Environmental Protection Agency, Washington, DC. Office of Pesticide Programs.

4 Aug 98, 18p, EPA/730/N-98/006.

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On September 19, 1997, EPA published in the Federal On september 19, 1997, EPA published in the Federal Register the final rule codifying EPA's interpretation and enforcement policy regarding section 6(a)(2) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), which requires pesticide registrants to report information concerning unreasonable adverse effects of their products to EPA (62 FR 49370). The purpose of of their products to EPÅ (62 FR 49370). The purpose of the rule is to clarify what information to submit, how and when to submit it, as well as which failures to report information, or delays in reporting, will be regarded by EPA as violations of FIFRA section 6(a)(2), actionable under FIFRA section 12(a)(2)(8)(ii) and 12(a)(2)(N). Additional issues were raised which the Agency has decided to address in this PR notice. In addition to providing guidance on the details of the June 19, 1998 Final Rule and Technical Corrections and other matters, this PR notice notifies registrants of the elimination of a reporting requirements for at least one year.

Keywords: "Reporting requirements, "Regulations, "Registration, "Hazards, US EPA, Pesticides, Government policies, Administrative procedures, "FIFRA(Federal Insecticide Fungicide and Rodenticide Act), *Federal Insecticide Fungicide and Rodenticide

PB98-166481REB PC A02/MF A01 Pesticide Fact Sheet: 'Gliocladium catenulatum' Strain J1446.

Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div. Jun 98, 8p, EPA/730/F-98/017.

Jun 98, 8p, EPA/30/F-98/017.

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The agency has classified PRIMASTOP as a microbial fungicide. PRIMASTOP contains living Gliocladium Catenulatum strain J1446 as the active ingredient.
Gliocladium catenuatum is a naturally-occurring saprophytic fungus, which is widespread in the envi-

Keywords: *Pesticides, *Registration, Microorganisms, Keywords: "Pesticides, "Hegistration, Microorganisms, Hyphomycetes, Fungicides, Biological pest control, Toxicity, Risk assessment, Exposure, Humans, Ani-mals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Admin-istrative procedures, Pest control, "Gliocladium catenulatum strain J1446, Use patterns.

PC A02/MF A01 PB98-166499REB EPA Pesticide Fact Sheet: German Cockroach

Pheromone, August 1998.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.
Aug 98, 8p, EPA/730/F-98/018.

See also report for Nov 96, PB97-146427. See also report for Nov 96, Pts97-146427.

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German cockroach pheromone is for use in a bait station combined with a German cockroach toxicant such as boric acid. It is registered for indoor non-food use in residential, commercial and industrial establishments including homes, restaurants, health care facilities, educational institutions, factories, garages, transportation and recreation vehicles, zoos, kennels, utilities,

Keywords: "Pheromones, "Insect attractants, "Pesticides, "Registration, Insect control, Cockroaches, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, Use patterns, Biochemicals.

PC A03/MF A01 PB98-166507REB Pesticide Fact Sheet: 'Bacilius thuringiensis' Subspecies "kurstaki" Strain M-200.

Biopesticides and Pollution Prevention Div.
Aug 98, 12p, EPA/730/F-98/013.
See also PB98-166515.

See also Ptsi8-166515.

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Bacillus thuringiensis subspecies kurstaki strain M-200 is approved for manufacturing-use and for the control of lepidoterous pests of tree fruits, terrestrial small fruits, terrestrial small fruits and vegetables, tree nuts, altalfa, corn, cotton, soybeans, peanuts, herbs and spices, and cranberries.

Keywords: "Bacillus thuringliensis, "Insecticides, "Pesticides, "Registration, Bacteria, Insect control, Bio-Pesacials, "negistration, bacteria, insection to opical pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Bacillus thuringiensis subspecies kurstaki strain M200, Use patterns.

PB98-166515REB PC A03/MF A01
Pesticide Fact Sheet: 'Bacillus thuringlensis' subspecies 'tohworthi' Cry9C Protein and the Genetic
Material Necessary for its Production in Com.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.
May 98, 20p, EPA/730/F-98/016.
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(703)605-6900; and email at PC A03/MF A01

(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

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: *Bacillus thuringliensis, *Insecticides, *Pesticides, *Registration, Bacteria, Insect control, Bio-*Bacillus thuringliensis, responses, registration, bacteria, filsed control, by ogical pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Bacillus thuringiensis subspecies tolworthi Cry9C protein, Use patterns.

PB98-166523REB PC A03/MF A01
Pesticide Fact Sheet: 'Bacillus thuringiensis'
CrytA(b) delta-Endotoxin and the Genetic Material Necessary for its Production (Plasmid Vector pCIB4431) in Corn.

Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div.

Aug 98, 22p, EPA/730/F-98/014. See also PB98-166531 and PB98-166515.

see also PB98-166531 and PB98-166515.

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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: "Bacillus thuringliensis, "Insecticides, "Pesticides, "Registration, Bacieria, Insect control, Biological pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental Impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Bacillus thuringiensis CrylA(b) delta endotoxin, Use patterns.

PB98-166531REB PC A03/MF A01
Pesticide Fact Sheet: 'Bacilius thuringiensis' Subspecies 'kurstaki' CrylA(c) delta-Endotoxin and
the Genetic Material Necessary for Its Production
in Com

Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div. Aug 98, 22p, EPA/730/F-98/015. See also PB98-166515.

(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document contains up-to-date chemical information, including a summary of this 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: "Bacillus thuringliensis, "Insecticides, "Pesticides, "Registration, Bacteria, Insect control, Biological pest control, Toxicity, Risk assessment, Expo-sure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Bacillus thuringiensis subspecies kurstaki CrytA(c) Delta-Endotoxin, Use patterns.

PB98-166549REB PC A04/MF A01
Pesticide Fact Sheet: 'Bacilius thuringiensis'
CrylA(b) delta-Endotoxin and the Genetic Material
Necessary for its Production (Plasmid Vector
pZ01502) in Corn.
Environmental Protection Agency, Washington, DC.

Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div. Aug 98, 32p, EPA/730/F-98/012. See also PB98-166556 and PB98-166523. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document contains up-to-date chemical informa-tion, 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: *Bacillus thuringliensis, *Insecticides, *Pesticides, *Registration, Bacteria, Insect control, Biological pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Bacillus thuringiensis CrylA(b) Delta Endotoxin, Use patterns.

PC A03/MF A01 PB98-166556REB Posticide Fact Sheet: 'Bacillus thuringiensis' CrytA(b) delta-Endotoxin and the Genetic Material Necessary for its Production in Corn. recessary for its Production in Com.
Environmental Protection Agency, Washington, DC.
Biopesticides and Pollution Prevention Div.
Aug 98, 24p, EPA/730/F-98/011.
See also PB98-166523 and PB98-166515.

see also Misse-100523 and Misse-166515.

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

Keywords: *Bacillus thuringliensis, *Insecticides, *Pesticides, *Registration, Bacteria, Insect control, Bio-Pesticoles, Registration, Bacteria, Insect Centrol, Dogical pest control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, "Bacillus thruingiensis CrylA(b) Delta Endotoxin, Use patterns.

PB98-167414REB PC A04/MF A01 PB98-167414REB PC AU4/MF AU1
Chesapeake Bay Living Resources 1997. Living
Resources Subcommittee Annual Report.
Environmental Protection Agency, Annapolis, MD.
Chesapeake Bay Program.
Aug 98, 48p, EPA/903/R-98/015, CBP/TRS-208/98.
See also PB97-155410.
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The Living Resources Subcommittee (LRSc) is committed to the restoration, enhancement, protection and management of the living resources of Chesapeake Bay. LRSc workgroups include: Aquatic Reef Habitat, Ecosystem Indicators, Ecosystem Modeling, Exotic Species, Fish Passage, Fisheries Management Plan (FMPs), Habitat Objectives/Restoration, Living Resources Monitoring (a joint workgroup with the Monitoring Subcommittee), Submerged Aquatic Vegetation (SAV; also a joint workgroup with the Monitoring Subcommittee), Waterfowl and Other Water Birds, and Wetlands. Wetlands

Keywords: "Natural resources management, "Fisheries, "Chesapeake Bay, Government policies, Bays, Ecosystems, Environment management, Wet-lands, Vegetation, Water quality management, Water pollution control, Aquatic habitats, Biological monitor-ing, "Habitat restoration.

PC A07/MF A02 PR98-167836RFB Radiological Survey at the Puget Sound Naval Shipyard and Naval Submarine Base, Bangor. National Air and Radiation Environmental Lab., Montgomery, AL.

T. W. Fowler, and C. Cox. Jul 98, 122p, EPA/402/R-98/ 003.

See also PB89-210629.

See also PB89-210629.
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This report presents results of a radiological survey conducted in September 1996 by the National Air and

EPA PUBLICATIONS BIBLIOGRAPHY

Radiation Environmental Laboratory (NAREL) to assess levels of environmental radioactivity around Puget Sound Naval Shipyard (PSNS) at Bremerton, WA, and the Naval Submarine Base (NSBB) near Ban-gor, WA. The purpose of the survey was to assess whether the construction, maintenance, overhaul, refueling or operations nuclear-powered warships have created elevated levels of radioactivity that could expose nearby populations or contaminate the environ-ment. During this survey 227 samples were collected: 126 at the PSNS study site; 73 at the NSBB site; 21 from background locations; and 7 near the outfall of the Bremerton sewage treatment plant. Samples included drinking water, harbor water, sediment, sediment cores, and biota. All samples were analyzed for gross alpha and beta activities and gamma emitting radionuclides, and some samples were also analyzed for radium-226 and isotopes of uranium, plutonium, and throium. In addition to sample collection and analysis, radiation surveys were performed using portable survey instruments to detect gamma radiation. Based on this radiological survey, practices regarding nuclear-powered warship operations at PSNS and NSBB have resulted in no increases in radioactivity causing significant population exposure or contamination of the envi-

Keywords: "Naval facilities, "Radiation monitoring, *Environmental surveys, Sampling, Alpha dosimetry, Beta dosimetry, Gamma radiation, Gamma dosimetry, Radium 226, Uranium isotopes, Thorium isotopes, Plu-tonium isotopes, Radioecological concentration, Radiation sources, Sediments, Drinking waters, Aquatic bi-ology, "Puget Sound Naval Shipyard, "Bangor Naval Submarine Base, Bremerton (Washington), Kitsap County (Washington).

PB98-167844REB PC A13/MF A03 Nonhazardous Solid Waste Management and Landfill Capacity in Illinois: 1996. Rept. for 1 Jan-31 Dec 96.

Illinois State Environmental Protection Agency, Spring-

field. Div. of Land Pollution Control. Aug 98, 262p, IEPA/BOL-98/008. See also PB97-137582.

See asis PS97-137502.

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The Illinoise EPA's 10th Annual Report describing the management of nonhazardous municipal solid waste by the state's solid-waste landfills and transfer stations. by the state's solid-waste landfills and transfer stations. The report is divided into section representing Illinois EPA administrative regions. Each regional section includes newly designated specification pages describing the chief physical characteristics of each landfill; location and hours of operation; tipping fee; quantities of wastes received (in gate cubic yards, tons and tons per day) for the last three years; the landfill's certified remaining capacity (in gate cubic yards and tons) for the last two reporting periods; solid waste management fees paid in 1996; which Agency regional field office or delegated local authority inspects the facility; and the name, address and phone number of the landand the name, address and phone number of the land-fill's owner and operator. Similar but scaled-down specification pages are included for each transfer station. In all, this report includes details of 77 landfills and 66 transfer stations.

Keywords: "Solid waste disposal, "Landfills, "Capacity, "Illinois, Municipal wastes, Waste transfer stations, Waste recycling, Composting, Materials handling, Solid waste management, Regional analysis, Tables(Data), *Nonhazardous wastes.

PC A19/MF A04 PB98-167976REB National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.

Potential for invasion of Underground Sources of Drinking Water through Mud-Plugged Wells: An Experimental Appraisal. Research rept. 1 Oct 91-30

Experimental Appraisal. Research rept. 1 Oct 91-30 Sep 94. Oklahoma State Univ., Stillwater. M. D. Smith, G. F. Stewart, R. L. Perry, M. D. Smith, C. D. Tautfest, G. Overton, W. A. Holloway, and J. D. Holman. Jul 98, 414p, EPA/600/R-98/075. See also PB90-227232. Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S.

customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Hazardous and Solid Waste Amendment of 1984 requires the Environmental Protection Agency to as-sess environmental suitability of liquid-waste injection into subsurface rock. The main objective of the feasibility study described was to test the hypothesis, evidence about dynamics of building mud cake on the wellbore-face was obtained, as well as comprehension of changes that occur in drilling mud from the time it is placed in a well until it reaches equilibrium.

Keywords: *Drilling fluids, *Mud, *Well drilling, *Injection wells, *Water pollution monitoring, Boreholes, Well casings, Porosity, Permeability, Plugs, Reservoir rocks, Fluid pressure, Liquid wastes, Drink-

PB98-168008REB PC A04/MF A01 Cost and Performance Report: In situ Anaerobic Bioremediation, Pinellas Northeast Site, Largo, Florida. Final rept. National Risk Management Research Lab., Ada, OK.

Subsurface Protection and Remediation Div D. S. Ingle, M. Hightower, and G. W. Sewell. Apr 98, 44p, EPA/600/R-98/115.

See also PB98-135809. Prepared in cooperation with Sandia National Labs., Albuquerque, NM. and Department of Energy, Grand Junction, CO. Grand Junction

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In early 1997, the Innovative Treatment Remediation Demonstration (ITRD) Program conducted a pilot study at the Pinellas STAR Center's Northeast Site to treat chlorinated volatile organic compounds (VOC) using in situ anaerobic bioremediation. The two primary objectives of this pilot study were to (1) evaluate the use of nutrient injection to enhance in situ anaerobic biological degradation of chlorinated VOCs in areas of moderate contaminant concentrations and (2) obtain operating and performance data to optimize the design and operation of a full-scale system.

*Pinellas Plant, *Biodegradation, Keywords: *Anearobic conditions, *Water pollution control, Ground water, Aquifers, Nutrients, Bacteria, Biological treatment, In situ processing, Flow rates, Base flow, Infiltration, Recirculation, Monitoring wells, Cost analy-*Water sis, Performance evaluation, Pilot projects, *Bioremediation, Innovative treatment technology, Volatile Largo(Florida), Chloroethene. organic compounds,

PB98-169188REB PC A06/MF A01 Title III List of Lists: Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act, as Amended. Title III of the Superfund Amendments and Reauthorization Act of 1986, and Title III of the Clean Air Act Amendments of 1990.

Environmental Protection Agency, Washington, DC.
Office of Prevention, Pesticides and Toxic Substances.
Dec 96, 88p, EPA/550/B-96/015.
See also PB95-213659 and PB95-227823.

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This consolidated chemical list includes chemicals subject to reporting requirements under Title III of the Superfund Amendments and Reauthorization Act of Superfund Amendments and Reauthorization Act of 1986 (SARA), also known as the Emergency Planning and Community Right-to-Know Act (EPCRA) and chemicals listed under section 112(r) of Title III of the Clean Air Act (CAA) Amendments of 1990. This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 314 or SARA Title III (EPCRA) and, for a specific chemical, what reports are need to be submitted it also will also help firms. may need to be submitted. It also will also help firms determine whether they will be subject to accident pre-vention regulations under CAA section 112(r).

Keywords: *Chemical compounds, *Listings, Hazardous materials, Toxic substances, Radioisotopes, Air pollutants, Pollution abatement, Pollution control, Waste management, Materials handling, Accidents, Reporting requirements, Regulations, Compliance, Chemical releases, Extremely hazardous substances, Threshold Planning Quantity, Reportable Quantity, Threshold Quantity, Superfund Amendments and Reauthorization Act of 1986, Emergency Planning and Community Right-to-know Act, Clean Air Act Amendments of 1990, Resource Conservation and Recovery Act. Comprehensive Environmental Response Compre Act, Comprehensive Environmental Response Compensation and Liability Act.

PC A04/MF A01 PB98-169303REB SAB Report: Review of the Surface Impoundments Study (SIS) Plan. Review of the Office of Solid Waste's Proposed Surface Impoundment Study by the Environmental Engineering Commit-

Environmental Protection Agency, Washington, DC.

Science Advisory Board.
Aug 98, 44p, EPA-SAB-EEC-98-009.
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The Charge for this review requested that the SAB comment on: (1) the technical merits of the overall study structure; (2) the technical merits of the proposed risk assessment; and (3) the involvement of technical experts, affected facilities and the public at critical points in the study's design and implementation.

Keywords: "Surface impoundments, "Industrial waves, "Waste water, US EPA, Research projects, Risk assessment, Public health, Ecology, Ecosystems, Site characterization, "Land Disposal Program Flexibility Act, "Office of Solid Waste, SIS(Surface Impoundment Study).

PB98-169733REB PC A03/MF A01 Hypothetical State Programs for Ensuring That All New Community Water Systems and Non-Transient Non-Community Water Systems Demonstrate Technical, Managerial and Financial Ca-

Environmental Protection Agency, Washington, DC. Office of Water.

Office of Water.
Jul 98, 26p, EPA/816/R-98/010.
See also PB98-144769.
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This document describes four hypothetical State programs that meet the requirements of section 1420(a) of the 1996 Amendments to the Safe Drinking Water Act. The purpose of this document is to demonstrate the variety of alternative approaches that States might adopt, emphasizing the significant flexibility inherent in the statutory requirement and EPA's guidance on this subject. Text boxes throughout the hypothetical program descriptions identify key points that reviewers might note regarding each program submission.

Keywords: "State programs, "Water utilities, "Safe Drinking Water Act, "Potable water, "Capacity, States(United States), Water quality, Water supply, Flexibility, Requirements, Regulations, Procedures, State government, Case studies, Community water systems, Nontransient noncommunity water systems.

PB98-169741REB PC A11/MF A03 Water Conservation Plan Guidelines.
Environmental Protection Agency, Washington, DC.

Office of Water.

Office of Water.

6 Aug 98, 224p, EPA/832/D-98/001.

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These Water Conservation Plan Guidelines are addressed to water system planners but use of the

Guidelines is not required by federal law or regulation. The first part of the document introduces the Guide-lines and provides information to the States about their nature and possible use. The second part of the document, written for water systems, is an overview to the organization, content, and the use of the Guidelines. organization, content, and the use of the Guidelines. The next three parts contain the water conservation plan Guidelines: Basic, Intermediate, and Advanced. The Basic Guidelines are designed for use by water systems serving populations of 10,000 or fewer; The Intermediate Guidelines are designed for water systems serving between 10,000 and 100,000 people; The Advanced Guidelines are designed for water systems serving between 10,000 and 100,000 people; ne Advanced Guidelines are designed for water systems serving more than 100,000 people. Six appendixes to the Guidelines provide supporting information: detailed descriptions of conservation measures (Appendix A), conservation benchmarks (Appendix B), acronyms and a glossary (Appendix C), information resources (Appendix D), funding souces (Appendix E), and state contacts (Appendix F).

r.eywords: "Water conservation, "Planning, "Guidelines, Water resources, Water supply, Water systems, States(United States), Water management(Applied), Infrastructure, Capacity, Water distribution(Applied), Water policy, Policy making, Safe Drinking Water Act, Forecasting, Implementation, Cost benefit analysis. *Water conservation,

PB98-169758REB PC A06/MF A01 Waterborne Disease Workshop, Held in Arlington, Virginia on October 9-10, 1997. Meeting Summary.

Environmental Protection Agency, Washington, DC. Office of Water.

Office of Water.

20 Jul 98, 88p, EPA/815/R-98/004.

See also PB91-125716 and PB98-169766. Prepared in cooperation with Resolve, Inc., Washington, DC. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at (703)e05-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Environmental Protection Agency (EPA) and Centers for Disease Control and Prevention (CDC), as recommended by the M/DBP Expedited Rule Advisory Committee resolution, co-sponsored the Waterborne Disease Workshop on October 9 and 10, 1997. This report summarizes the presentations and discussion at the Workshop. It is organized in three sections. The Background of Waterborne Disease Detection and Background of Waterborne Disease Detection and Federal Policy Development section includes sum-maries of the presentations by Agency representatives concerning the scientific and policy considerations in developing a National Estimate for Waterborne Dis-ease Occurrence. The Planned and Ongoing Studies of Disease Occurrence section summarizes presentations on except research and proceed research and proceedings of the processor of the proc of Disease Occurrence section summarizes present tations on specific ongoing or proposed research approaches and the discussion surrounding them. The Approaches Towards a National Estimate section summarizes the discussion of scientific and policy considerations involved in developing the National Estimate.

Keywords: "Waterborne diseases, "Potable water, "Safe Drinking Water Act, "Water quality management, Microorganisms, Pathogens, Disease outbreaks, Water supply, Water utilities, Water systems, Public health, Communities, Exposure, Detection, Sampling, Regulations, Government policies, Research projects, Meetings.

PB98-169786REB PC A04/MF A01 U.S. EPA and CDC Workshop on Waterborne Dis-ease Occurrence Studies. Held in Atlanta, Georgia on March 12-13, 1997. Summary Report. Environmental Protection Agency, Washington, DC.

Office of Water. G. Craun. Aug 98, 46p, EPA/815/R-98/005. See also PB98-169758.

See also PISI8-169/58.

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Technical presentations at the beginning of the work-shop provided participants with current information to assist in the design of the proposed epidemiological studies: Water sources and treatment used in the United States; Occurrence of waterborne pathogens in water sources and tap water, Etiologic agents causing

waterborne disease; Water system deficiencies associated with reported waterborne outbreaks; Analytical methods for detecting pathogens in water samples and clinical specimens; and Human dose response issues for Norwalk virus and Cryptosporidium. Participants were also informed about the objectives, study designs, and preliminary results of recently completed and ongoing waterborne disease epidemiological studies; A general discussion of the fundamental questions ies; A general discussion of the fundamental questions surrounding the proposed epidemiological studies fol-lowed the technical presentations. Participants then met separately in three break-out groups for further discussions. Each group summarized their delibera-tions at the end of the first day. During the second day, workshop participants identified and discussed the im-content issues that should be considered in designing. portant issues that should be considered in designing and conducting the proposed epidemiological studies. This report summarizes these issues.

Keywords: "Waterborne diseases, "Epidemiology, "Potable water, "Public health, Microorganisms, Pathogens, Water quality, Disease outbreaks, Safe Drinking Water Act, Exposure, Risk assessment, Water treatment, Research projects, Project management, Statistical analysis, Intervention studies, Meetings.

PB98-169774REB PC A03/MF A01 Information for the Public on Participating with States in Preparing Capacity Development Strate-

gles. Environmental Protection Agency, Washington, DC.

Jul 98, 12p, EPA/815/R-98/009. See also PB98-133333.

See also PB86-133333.
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Capacity development is an effort by the States to help drinking water systems improve their finances, man-agement, infrastructure, and operations so they can provide safe drinking water consistently, reliably, and cost-effectively. As a first step, each State will prepare its own capacity development strategy. Although the details will vary depending on the particular needs of the State's water systems, each strategy will specify how the State will identify and rank water systems that need assistance.

Keywords: "Public information, "Information dissemi-nation, "States (United States), "Capacity, "Water utili-ties, "Potable water, Water systems, Water supply, Public utilities, Water treatment plants, Water quality, State government, Safe Drinking Water Act, Regula-tions, State Revolving Fund.

PB98-169782REB PC A02/MF A01 Water Pollution Control: Twenty-Five Years of Progress and Challenges for the New Millennium. Environmental Protection Agency, Washington, DC. Office of Water.

Jun 98, 10p, EPA/833/F-98/003.

Jun 96, 10p, EPA/833/F-98/003.
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Consistent with the goals of the new Clean Water Ac-tion Plan, the Office of Wastewater Management (OWM) has renewed its commitment to improving the quality of water in the United States for the benefit of all

Keywords: "Water pollution control, "Water quality management, "Environmental protection, "Public health, Water pollution sources, Runoff, Waste water treatment, Sewage treatment plants, Water treatment plants, Water pollution abatement, Clean Water Acts, Regulations, Watersheds, Federal government, Pollution prevention.

PB98-169790REB PC A03/MF A01 Outreach and Technical Assistance Programs. 1997 Accomplishments; Small Underserved Communities Team.

Environmental Protection Agency, Washington, DC. Jun 98, 20p, EPA/832/R-98/001. See also PB98-133309 and PB98-133218.

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Underserved Communities: the Problem; 1997 Program Accomplishments; Technical Assistance; Training; Outreach: Team Publications: and Team Contacts.

Keywords: "Waste water treatment, "Water quality management, "Federal programs, US EPA, Outreach programs, Technical assistance, Financial assistance, Waste water disposal, Public utilities, Elgibility, Underserved communities.

PB98-169808REB PC A05/MF A01 Guidance on implementing the Capacity Develop-ment Provisions of the Safe Drinking Water Act Amendments of 1996.
Environmental Protection Agency, Washington, DC.
Jul 98, 68p, EPA/816/R-98/006.
See also PB98-133333 and PB98-133366.

See also PB98-133333 and PB98-133366.
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This guidance establishes national policy regarding im-plementation of the capacity development related pro-visions of the SDWA, as amended. Sections 2 and 3 of this guidance describe how EPA will assess State cathis guidance describe how EPA will assess State ca-pacity development programs for purposes of deter-mining whether these programs meet the statutory re-quirements contained in section 1420 of the Act and therefore whether the Agency is required to withhold (according to sections 1420 and 1452(a)(1)(G)(i)) up to 20% of a State's share of DWSRF funding. Section 4 of this guidance describes what States must document and submit to EPA to demonstrate compliance with section 1452(a)(3) of the Act.

Keywords: "States(United States), "Water utilities, "Capacity, "Potable water, "Sale Drinking Water Act, State government, Water quality, Public utilities, Water supply, Water treatment plants, Facilities manage-ment, Operation and maintenance, Implementation, Technical assistance, Financial assistance, Provisions, Regulations, Community water systems, Non-transient noncommunity water systems, Transient non-community water systems, DWSRF(Drinking Water State Revolving Fund).

PC A07/MF A02 PB98-169956REB Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information. Alternative Methods for Fluid Delivery and Recovery: Manual.

Eastern Research Group, Inc., Lexington, MA. L. Murdoch, and D. Wilson. Sep 94, 102p, EPA/625/R-94/003.

Contract EPA-68-C0-0068

See also PB90-155607. Prepared in cooperation with Independent Environmental Consultants, Arvada, CO. and Cincinnati Univ., OH. Center for Independent Environmental Consultants, Arvada, CO. and Cincinneti Univ., OH. Center for GeoEnvironmental Science Technology. Sponsored by Environmental Protection Agency, Cincinnati, OH. Center for Environmental Research Information. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This manual focuses on alternatives to conventional applications of vertical wells—alternatives that improve performance or reduce cost. This manual present these three alternative methods of enhancing delivery and recovery. The scope of this document is confined to physical enhancement techiques.

Keywords: "Water pollution control, "Alternatives, "Recovery, "Delivery, Well drilling, Fracturing, Trench-es, Directional drilling, Geology, Depth, Vapors, Manu-

EPA PUBLICATIONS BIBLIOGRAPHY

als, LNAPL(Light Nonaqueous Phase Liquids), DNAPL(Dense Nonaqueous Phase Liquids).

PB98-169964REB PC A04/MF A01 SAB Report: Environmental Radiation Amblent Monitoring System (ERAMS) II.
Environmental Protection Agency, Washington, DC.

Radiation Advisory Committee. Aug 98, 46p, EPA/SAB/RAC/ADV-98/001. See also PB86-158011.

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The EPA Science Advisory Board's (SAB) Radiation Advisory Committee (RAC) reviewed technical aspects of the draft document titled 'Reconfiguration Design for the Environmental Radiation Ambient Monitoring Sys-tem' (ERAMS). The charge to the RAC for this advisory was to assess the Agency's proposals for reconfiguring the ERAMS program and to respond to specific ques-tions related to the effort regarding the reconfiguration design, the criteria used for matrix selection, determination of sampling locations and frequency, other network features, whether proposed changes will in-crease overall system usefulness to all the parties, and whether there are other issues or practices that should

Keywords: "Radioactive contaminants, "Radiation monitoring, Radiosotopes, Radioactivity, Fallout deposits, Radionuclide migration, Radioecological concentration, Radiation detection, Environmental monitoring, "ERAMS(Environmental Radiation Ambient Monitoring System), "Environmental Radiation Ambient Monitoring System, Data Quality Objectives.

PB98-169972REB PC A11/MF A03 Sanitary Sewer Overflow Workshop. Heid in Washington, DC. on April 26-28, 1995. Final rept. Environmental Protection Agency, Washington, DC.

Office of Water.
Aug 95, 224p, EPA/832/R-95/007.
Also presented to the Urban Wet Weather Flows Advisory Committee, SSO Subcommittee, August 17, 1995. See also PB98-169972 and PB98-151343. 1985. See also PB98-1699/2 and PB98-151343.
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OWM also invited a number of national wet weather and wastewater treatment experts and committee and wastewater treatment experts and committee members to participate in a workshop on SSOs in Washington, DC. April 26-28, 1995, immediately following the conference. The workshop focused on five specific areas: (1) preventing maintenance, (2) peak inflow, (3) rainfall induced infiltration (RIII), (4) laterials, and (5) treatments options for wet weather flow. Following is a summary of the findings and recommendations of the workers of the survivience of the workers. tions of the workshop.

Keywords: "Sanitary sewers, "Sewer systems, "Overflow, "Meetings, Peak discharge, Surface runoff, Storm water runoff, Rainfall-runoff relationships, Inflitration, Inflow, Outflow, Waste water treatment, Sewage water treatment, Sewage disposal, Combined sewers, Pipes(Tubes), Maintenance, Public sector, Public utilities, Private sector, Communities, Water quality, Monitoring, Watersheds, Case studies.

PC A03/MF A01 PB98-173420REB Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. Comparison of Indoor Radon Concentrations De-termined by Passive Carbon Monitors and Contin-uous Radon Monitors. Rept. for Dec 87-Mar 88. Oak Ridge National Lab., TN. Health and Safety Research Div.

D. C. Sanchez, and C. S. Dudney. 1988, 16p, EPA/

600/A-98/111.

Presented at the CSCE-ASCE Conference on Environ mental Engineering, Vancouver, B.C., July 13-15, 1988. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.

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customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This work presents the results of side-by-side carbon absorption measurements using commercially available monitors. Comparisons are made with integrated averages obtained from continuous radon monitoring measurements. Measurements were made in four houses in Oak Ridge, TN, during the winter of 1988. Integrated 2 day measurements generally compare well with continuous radon monitor averages

Keywords: 'Radon, 'Air pollution monitoring, 'Temporal variations, 'Houses, Indoor air pollution, Radioecological concentration, Carbon, Adsorption, Passive systems, Continuous sampling, Air pollution sampling.

PB98-173446REB PC A03/MF A01 Air Pollution Prevention and Control Division's Program within U.S. EPA's Office of Research and Development.

Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

F. T. Princiotta. 1998, 20p, EPA/600/A-98/110. Presented at the Korean Society of Clean Technology Conference, Seoul, Korea, September 12-13, 1996. See also PB88-127048.

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A simplified organizational diagram of the U.S. EPA illustrates that the Agency is generally organized around its legislative mandate; i.e., media-oriented programs. Since this article focuses on air pollution engineering research, it highlights two of the relevant Assistant Administrator components. The Air and Radiation Office is responsible for setting the agenda for the Agency regarding implementation of air (and radiation) abatement programs, especially implementation of the recently passed Clean Air Act Amendments. The Research and Development Office provides scientific and technical information to support Agency programs. The discussion focuses on air pollution problems and the engineering challenges associated with dealing with them. A simplified organizational diagram of the U.S. EPA il-

Keywords: *US EPA, *Air pollution control, *Air pollution abatement, Air pollution standards, Pollution regulations, Government policies, Environmental policy, Clean Air Acts, Federal programs, Air pollution effects(Humans), Environmental effects, Pollution prevention.

PB98-173453REB PC A06/MF A02 Guideline on Ozone Monitoring Site Selection. Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Aug 98, 100p, EPA/454/R-98/002. See also PB98-157613 and PB98-147226.

Product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at 1703968-5600. (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This report provides background information for State and local agencies responsible for designing and im-plementing an ozone monitoring program. This up-dated report is motivated by the need to help air quality agencies and others incorporate 8-hour monitoring into ager rates and others incorporate o-nour monitoring into their ozone monitoring program. This report assists those agencies considering how to design, implement or revise ozone monitoring networks, particularly in light of the need to collect 8-hour ozone concentration

Keywords: *Ozone, *Air pollution monitors, *Site selecreywords: Ozone, Air poliulion monitors, Ameselec-tion, *Guidelines, Air pollution monitoring, Ameseheric chemistry, Ecological concentration, National Ambient Air Quality Standards, Design, Implementation, Net-works, Data collection. PB98-173461REB PC A05/MF A01 Volatile Organic Compound Emissions from Automobile Refinishing; Background Information for Promulgated Standards. Final rept.

Profitugated Standards, Frita Text.
Environmental Protection Agency, Research Triangle
Park, NC. Office of Air Quality Planning and Standards.
Aug 98, 52p, EPA/453/R-96/011B.
See also PB96-172457.

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A final rule for the regulation of volatile organic compounds (VOC) from automobile refinishing is being promulgated under the authority of Section 183(e) of the Clean Air Act. This document contains comments received from the public, and the EPA's responses to these comments.

Keywords: "Emissions, "Air pollution standards, "Clean Air Acts, Air pollution control, Spray painting, Surface coating, Coating processes, Paints, Repair shops, Automobile bodies, Pollution regulations, Standards compliance, Substitutes, Alternatives, State law, Environmental impacts, Economic impact, Cost analysis, National Ambient Air Quality Standards, "Volatile organic compounds, "Automotive refinishing.

PB98-173479REB PC A04/MF A01 National Risk Management Research Lab., Cincinnati, OH.

Environmental Assessment of the Base Catalyzed Decomposition (BCD) Process. Research rept. Jun-Jul 98.

IT Corp., Cincinnati, OH.

IT Corp., Cincinnati, OH.
Aug 98, 42p, EPA/600/R-98/107.
Contract EPA-68-C5-0039
See also PB92-152511. Sponsored by National Risk Management Research Lab., Cincinnati, OH.
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The report summarizes laboratory-scale, pilot-scale, and field performance data on BCD (Base Catalyzed Decomposition) technology, collected to date by various governmental, academic, and private organizations.

Keywords: *Soil contamination, *Chemical treatment, Technology assessment, Polychlorinated biphenyls, Dioxins. Hazardous wastes. Catalysis. Dioxins, Hazardous wastes, Catalysis, Dehalogenation, Soil treatment, Soil remediation, Land pollution control, Laboratory testing, Field tests, Pilot projects. *Base catalyzed decomposition, projects, *Base Thermodesorption.

PB98-173495REB PC A23/MF A04
RACT/BACT/LAER Clearinghouse Annual Report
for 1998: A Compilation of Control Technology
Determinations. Eighth Supplement to the 1990

Environmental Protection Agency, Research Triangle Park, NC. Information Transfer and Program Integra-

tion Div.
Jun 98, 504p, EPA/456/R-98/004.
See also Seventh Supplement, PB98-163124.
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The basic purposes of the RBLC are to: (1) provide state and local air pollution control agencies with current information on case-by-case control technology determinations that are made nationwide, and (2) promote communication, cooperation, and sharing of control technology information among the permitting agencies. The information presented in this compilation was abstracted from preconstruction permits and submitted by the state and local air pollution control agencies and EPA regional offices. The Clearinghouse is intended as a reference for state and local agencies in making RACT/BACT/LAER decisions.

Keywords: *Air pollution control, Air pollution control equipment, Air pollution sources, Permits, Sectoral

analysis, Performance standards, Air pollution standanalysis, Performance standards, Air pollution standards, Standards compliance, Clean Air Acts, Pollution regulations, Industrial wastes, Airborne wastes, Indexes(Documentation), Tables(Data), "BACT(Best Achievable Control Technology), "RACT(Reasonably Achievable Control Technology, "RACT(Reasonably Achievable Control Technology, "LAER(Lowest Achievable Emission Rates), "Lowest Achievable Emission Rates), "Lowest Achievable Emission Rates, New Source Performance Standards, RBLC(RACT/BACT/LAER Clearinghouse) LAER Clearinghouse).

PB98-500580REB CP D02 Global Emissions Database (GloED) Version 1.0 (on Diskette), Software.

Environmental Protection Agency, Washington, DC. Office of Research and Development.

eo 97. 2 diskettes.

Sep 97, 2 diskettes.

MS DOS 6.0, Windows 3.1 or Windows 95 operating system. Recommended hardware: IBM PC or compatible Pentium, 133 MHz; 100 MB available hard disk storage; VGA-compatible display; Extended Memory Manager with 2408 KB extended memory; mouse; 640 KB base memory with 450 KB free available memory. The software is on two 3 1/2 inch DOS diskettes, 1.44M high density. Documentation included; may be ordered separately as PB98-120025. Order this product from NTIS by; phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Global Emissions Database (GloED) is a user-friendly, menu-driven tool for storing and retrieving emissions factors and activity data on a country-specific basis. Data can be selected from databases resident within GioED and/or supplied by the user. The data are used to construct emissions scenarios for the data are used to construct emissions scenarios for the countries and sources selected. References are linked to the data to ensure clear data pedigrees. The scenario outputs can be displayed on thematic global maps or other graphic outputs such as pie or bar charts. In addition, data files can be exported to a printer. This distribution version of the GloED incorporates in its database twelve different "datasets." The majority of the datasets are single gas (i.e., methane emissions datasets). Some of the datasets include emissions from several oreenhouse gases. The emissions from several greenhouse gases. The sources included emission from: motor vehicles, landsources included emission from: motor vehicles, land-fills, minor CH4 sources, rice cultivation, fuelwood burning, global VOC, animal waste methane, animal enteric CH4, domestic waste water, underground mines, biomass burning, and CH4 from oil and gas pro-duction. GloED is a software system designed as a tool to generate estimates of global emissions by combin-ing pollutant-specific emission factors with quantitative data on emission-producing activities for that source. CloED also senses as a recository for emissions data. data on emission-producing activities for that source. GloED also serves as a repository for emissions data, activity data, and emission factors. Emission-producing activities are grouped into discrete datasets within GloED, based on the source of the data. Datasets may be named for the major component source categories contained in them. Most datasets are based on data from a single study. When you select one or more datasets of activities, you then have the option of narrowing the scope of the data by selecting the desired data contained associated with the datasets. You can select by country, sector, fuel, and/or pollutant. Within the dataset filters for source categories and fuels, there are hierarchical groupings of information so that the data requested can be as specific as possible. The data requested can be as specific as possible. The final set of selected activities is used to generate the emissions inventory scenario. The GloED Scenario feature adds considerable flexibility to GloED. It allows aquot;mix and matchaquot; of data included in multiple datasets so the user can construct an emissions inven-tory that combines data from multiple datasets or se-lections from a single dataset. The contents of the lections from a single dataset. The contents of the emission inventories generated by GloED can be re-ported in a variety of ways. A text summary of the emis-sion inventories will generate a tabular breakdown of the results by pollutant, sector, and/or country. GloED can also provide a pie chart or bar chart showing the top 9 emitting countries in a format that allows easy comparison. Finally, GloED can project the results of an emissions inventory onto a global map, using colors to designate the amount and distribution of pollutants in the selected scenario. All of these output formats in the selected scenario. All of these output formats can be viewed on the screen, saved to a file, or printed as hard coov.

Keywords: "Software, "Databases, "Greenhouse gases, "Air pollution sources, "Emission factors, Air pollutants, Global, Air pollution monitoring, Data sets,

Scenarios, Estimation, Data analysis, Data retrieval, Computerized simulation, *GLoED(Global Emission Database, Emission inventories.

PB98-502354REB CD-ROM \$60.00 Superfund Public Information System (SPIS) June 1998 (on CD-ROM). Data file.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 98, 1 CD-ROM.

Contains search and retrieval software. Hardware/ Contains search and retrieval software. Hardware Software requirements: IBM or compatible PC-386SX or higher microprocessor, 4 MB of RAM, CD-ROM drive, mouse, SVGA 256 color display and Microsoft Windows Ver 3.1 or later. Supersedes PB98-502835

Wilnows Ver 3.1 or raiser. Superseques Pase-Suzess and PB98-500341. See also SUB-5131.

The datafile is on one disc. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161,

The Superfund Public Information System (SPIS) on CD-ROM contains Superfund data for the United States Environmental Protection Agency. The Superfund data is a collection of four databases, CERCLIS, Archive (NFRAP), RODS, and NPL Sites. Descriptions of these databases and CD contents are listed below. The FolioViews browse and retrieval engine is used as a graphical interface to the data. Users can access simple queries and can do complex searching on key words or fields. In addition, context sensitive help, a Superfund process overview, and an integrated data dictionary are available. RODS is the Records Of Decision System. RODS is used to track site clean-ups under the Superfund program to justify the type of treatment chosen at each site. RODS contains information on technology justification, site history, community participation, enforcement activities, site characteristics, scope and role of response action, and rem-edy. Explanation of Significant Differences (ESDs) are also available on the CD. CERCLIS is the Comprehensive Environmental Response, Compensation, and Li-ability Information System. It is the official repository for all Superfund site and incident data. It contains comprehensive information on hazardous waste sites, site inspections, preliminary assessments, and remedial status. The system is sponsored by the EPA's Office of Emergency and Remedial Response, Information Management Center. Archive (NFRAP) consists of hazardous waste sites that have no further remedial action planned; only basic identifying information is provided for archive sites. The sites found in the Archive database were originally in the CERCUS database, but were removed beginning in the fall of 1995. NPL sites (available online) are fact sheets that describe the location and history of Superfund sites. Included are descriptions of the most recent activities and past actions at the sites that have contributed to the contamination. Population estimates, land usages, and nearby resources give background on the local setting surrounding a site.

Keywords: "Data file, "Superfund, "Hazardous mate-rials, "Waste management, "Site characterization, Pol-lution control, Public relations, Public information, In-formation dissemination, Communities, Remedial action, Waste management, Cothinates, Netherland ards compliance, Program management, Data bases, CD-ROM, Records of Decision, Explanation of Significant Difference, NPL(National Priorities List), NFRAP(No. Further Remedial Action Planned), CERCLIS(Comprehensive Environmental Response Compensation and Liability Information System).

PB98-502388REB Toxic Substances Control Act (TSCA)-PMN File: ASCII Text Data, June 1998. TSCA Chemical Sub-ASCH LEXT DATE, JUNE 1998. I SCA CHEMICAL SUbstances Inventory: PMN Number to EPA Accession Number Link (on Diskette). Data file.
Environmental Protection Agency, Washington, DC.
Office of Pollution, Prevention, and Toxics.
Jan 98, 1 diskette, EPA/744/C-98/003.

This product contains text only. Customers must provide their own search and retrieval software. The Revised Inventory Synonym and Preferred Name File is also available. Supersedes PB97-503189, PB97-503149, PB96-503248, PB96-501267, and PB98-

The datafile is on one 3 1/2 inch DOS diskette, 1.44M high density. File format: ASCII text. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. custorners); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The PMN Number to EPA Accession Number Link Diskette provides a cross-reference of these numbers for commended PMNs on the confidential portion of the for commended PMNs on the confidential portion of the TSCA Master Inventory File. Neither this cross-reference nor the additional information included is TSCA Confidential Business Information. Provided on the diskette for each confidential commenced PMN are the PMN Case Number, EPA Accession Number, Generic Name, and EPA special flags. The sequence of the file is in ascending PMN case Number order with 'P' case numbers sented first followed by 'Y' case numbers. numbers sorted first, followed by 'Y' case numbers.

Keywords: "Data file, "Chemical compounds, "Toxic Substances Control Act, Nomenciature, Molecular structure, Inventories, Magnetic tapes, "Chemical Substances Inventory, CAS Registry Number, Molecular

PB98-502404REB Mag Tape \$454.00 Toxic Substances Control Act (TSCA) Chemcial Substances Inventory: Revised Inventory Synonym and Preferred Name File, June 1998 (Raw Data) (on Magnetic Tape and CD-ROM). Data file. Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Jun 98. magnetic tape FP47/444/5 09/2014

Jun 98, magnetic tape, EPA/744/C-98/001. File format: EBCDIC. Supersedes PB97-503205, PB97-501456, PB96-503222, PB96-501333, and PB98-500556.

Ordering information for each format: (A) CD-ROM searchable database, order no. SUB-5423, \$288; or (B) ASCII text file of raw data, 3 1/2 inch HD DK, order

(a) ASCII tele of have data, 3 /2 lin31 bb, other no. PB98-502412, \$161; or (C) Datafile on magnetic tape, order no. PB98-502404, \$454. Prices outside the U.S., Canada, and Mexico are double. Available in 9-track, EBCDIC character set tape. DOS DK, 1.44M HD. File format: ASCII text.

The TSCA Chemical Substance Inventory provides chemical identity information for the 63,557 non-confidential substances on the TSCA Master Inventory File. The datafile contains no TSCA Confidential Business Information. New versions of the TSCA Inventory are issued at approximately six month intervals. The data provided for each chemical substance include the casa provided for each chemical substance include the CAS Registry Number, Preferred CA Index Name, mo-lecular formula, and other appropriate information, such as valid chemical names reported by submitters. The entries are in ascending CAS Registry Number

Keywords: "Data file, "Chemical compounds, "Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Magnetic tapes, "Chemical Substances Inventory, CAS Registry Number, Molecular

PB98-502412REB Diskette \$161.00 Toxic Substances Control Act (TSCA): ASCII Text Data, June 1998. TSCA Chemical Substances inventory: Revised Inventory Synonym and Pre-ferred Name File (on Diskette). Data file. Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

Jun 98, 3 diskettes, EPA/744/C-98/002.

This produte contains text only. Customers must provide their own search and retrieval software. Files are compressed. Supersedes PB97-503163, PB97-501431, PB96-503230, PB95-503116, PB95-505400, and PB98-500654.

Ordering information for each format: (A) CD-ROM searchable database, order no. SUB-5423, \$288; or (B) ASCII text file of raw data, 3 1/2 inch HD DK, order no. PB98-502412, \$161; or (C) Datafile on magnetic tape, order no. PB98-502404, \$454. Prices outside the U.S., Canada, and Mexico are double. The datafile is on three 3 1/2 inch DOS DK, 1.44M HD. File format:

The TSCA Chemical Substance Inventory provides chemical identify information for the 63,557 non-confidential substances on the TSCA Master Inventory File. The datafile contains no TSCA Confidential Business Information. New versions of the TSCA Inventory are issued at approximately six month intervals. The data provided for each chemical substance include the CAS Registry Number, Preferred CA Index Name, molecular formula, and other appropriate information, such as valid chemical names reported by submitters.

EPA PUBLICATIONS BIBLIOGRAPHY

The entries are in ascending CAS Registry Number order

Keywords: "Data file, "Chemical compounds, "Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Magnetic tapes, "Chemical Substances Inventory, CAS Registry Number, Molecular formula.

PB98-502453REB CP D02 PB98-502453REB CP D02 Site Enforcement Tracking System (SETS) (National) (on Diskette). Data file. Environmental Protection Agency, Washington, DC. Office of Waste Programs Enforcement.

Nov 97, 2 diskettes

Supersedes SUB-5178 and SUB-5179.

The datafile is on two 3 1/2 inch DOS diskettes, 1,44M The datafille is on two 3 1/2 inch DOS diskettes, 1.44M high density. File format: ASCII. Memory: 640K. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

When expending Superfund monies at a CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) site, EPA must conduct a pensation and Liability Act) site, EPA must conduct a search to identify parties with potential financial responsibility for remediation of uncontrolled hazardous waste sites. EPA regional Superfund Waste Management Staff Issue a notice letter to the potentially responsible party (PRP). Data from this notice letter is used to form the Site Enforcement Tracking System (SETS). This data includes PRP name and address, a (SETS). This data includes PRP name and address, a company contact person, the date the notice was issued, and the related CERCLA site name and identification number. SETS was created by EPA to track PRP identification at both NPL (National Priority List) and non-NPL sites. SETS does not address the range of other administrative duties related to tracking the PRP. These lists represent EPA's preliminary findings on the identities of PRPs. Inclusion on these lists does not constitute a final determination concerning the linot constitute a final determination concerning the liability of any party for the hazard or contamination at any CERCLA site.

Keywords: *Data file, *Hazardous materials, *Superfund, *Remedial action, *Regional analysis, *Waste management, United States, Site characteriza-tion, Responsibility, Listings, Diskettes, *Site Enforce-ment Tracking System, Potentially responsible parties, National Priority List.

PB98-502511REB Diskette \$116.00 RCRA Permit Policy Compendium, September 1993 Update (on Diskette). Data file.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

Sep 93, 2 diskettes.
This product contains text only. Customers must provide their own search and retrieval software. See also

The datafile is on two 3 1/2 inch diskettes, 1.4M high The datafile is on two 3 1/2 inch diskettes, 1.4M high density. File format: dBase III. Documentation included; may be ordered separately as PB94-100252. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The report is an update package for insertion into the RCRA permit policy compendium. The user's guide and keyword index volume is replaced; instructions for inserting new and revised documents are included.

Keywords: *Pollution regulations, *Hazardous materials, *Waste management, *Data file, Waste disposal, Remediation, Pollution control, Administrative procedures, Permits, Environmental policy, Government policies, Standards compliance, Law enforcement, Revisions, Planning, Ranking, Diskettes, *RCRA(Resource Conservation and Recovery Act), *Resource Conservation and Recovery Act, Updates.

PB98-502552REB Spreadsheet Model for Preparing Automative Exhaust Surrogates (SMPAES) (on Diskette). Model-Simulation.

Environmental Protection Agency, Washington, DC. Office of Research and Development.

Jun 97, 1 diskette.

Operating system: Windows 3.1, Windows 95; Formats: Lotus 1-2-3, version 2.01-4.0; Excel v.5.

The software is on one 3 1/2 inch diskette, 1.44M high density. Documentation (PB98-150634) included; not available separately. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The product consists of three related macro-driven The product consists of three related macro-driven Lotus 1-2-3 spreadsheet programs and demo data for calculating the composition of a mixture that when added to the fuel produces a combined mixture (surrogate) that has a compositional profile and Carter MIR specific reactivity almost equivalent to that of automotive exhaust. Required inputs are speciated hydrogated and exhaust. Required inputs are speciated hydrogated and exhaust. carbon data and oxygenate (alcohols and ethers) for the fuel and speciated hydrocarbon, oxygenate, car-bonyl (aldehydes and ketones) and carbon monoxide data for the exhaust. The program compares the composition of the exhaust and the fuel, identifies and cal-culates the amount of exhaust components that should be added to the fuel so that the resulting mixture would closely approximate the characteristics of a real exhaust. The rationale for this approach is that the com-plexity of the exhaust mixture results mainly from the fuel (i.e., combustion derived components are relatively small in number). The compositional and reactivity profiles of the exhaust can be readily approximated by the addition of less than 20 combustion identified exhaust components to the fuel.

*Models-simulation, *Automobile exhaust, *Combustion products, *Exhaust emission reactivity, Hydrocarbons, Carbon monoxide, Mixtures, Automotive fuels, Exhaust composition, Chemical reactivity, Vehicle air pollution, Diskettes, Spreadsheets.

PB98-963201REB PC A18/MF A03
Special Vocasian Implementation Manual PB98-963201REB

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1 Jul 98, 380p, EPA/540/R-98/001, OSWER-9200.3-

See also PB96-963241 and PB97-963219.

Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

The information in this Manual is targeted to Information Management Coordinators (IMCs), Remedial Project Managers (RPMs), and On-Scene Coordinators (OSCs), and Regional Counsels. Its primary purpose is to provide guidance to this audience on management of the Superfund program. The FY 1999 Superfund Program Implementation Manual contains information on: Managers' Schedule of Significant Events; Program goals and priorities; Program plan-Events; Program goals and priorities; Program planning and reporting requirements; and Financial management. In addition, the appendices at the end of the manual contain pipeline specific planning and reporting definitions; Appendix A presents measure definitions for Site Screening and Assessment and Regional Decisions; Appendix B provides measure definitions for Serby and Long Term Actions: Appendix C presents Early and Long Term Actions; Appendix C presents measure definitions for Enforcement; Appendix D conmeasure definitions for Enforcement; Appendix D contains program priorities and measure definitions for Federal Facilities; Appendix E provides information on Superfund Information Systems; Appendix F contains program priorities, measures, definitions, planning and reporting requirements, and financial information for the Oil Program; and Appendix G contains Superfund Reforms Measures of Success; Appendix H contains Government Performance and Results Act (GPRA) objectives and reporting measures: Appendix Descriptions and reporting measures and Descriptions jectives, subobjectives and reporting measures; Appendix J contains measure definitions for Community Involvement.

Keywords: "Superfund, "Oil pollution, "US EPA, "Program administration, "Implementation, Hazardous *Program administration, "Implementation, Hazardous materials, Waste management, Pollution control, Remediation, Planning, Reporting, Scheduling, Enforcement, Funding, Administrative procedures, Program management, Sites, Interagency coordination, Communities, Citizen participation, Goals, Priorities, Manuals, Cleanup, Potentially responsible parties.

PC A09/MF A02 PB98-963221REB Plan to Enhance the Role of States and Tribes in the Superfund Program. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

Mar 98, 160p, EPA/540/R-98/012, OSWER-9375.3-

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This document presents EPA's recommendation for enhancing the roles of states and federally-recognized Indian tribes in implementing the Superfund program. The agency collaborated with states and tribes in working sessions, during which the parties developed consensus-based recommendations for final approval by sensus-based recommendations for final approval by upper-level EPA, state, and tribal managers. Through this document, EPA proposes an integrated process for implementing the recommendations to enhance state and tribal roles, and suggests ways the process could begin under a national pilot program. This document is for state, tribal, and EPA regional audiences, and it identifies steps that EPA could take to build stronger partnerhsips with states and tribes.

Keywords: *States(United States), *Citizen participation, "Community relations, "Superfund, "American Indians, Program management, US EPA, Intergovernmental relationships, Technical assistance, State government, Implementation, Recommendations, Involvement, Hazardous materials, Waste management, Remediation, Pollution control, Cleanup operations.

PB98-963244REB PC A03/MF A01 Clarification to the 1994 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.
27 Aug 98, 14p, EPA/540/F-98/030, OSWER-9200.4-

See also PR94-963282

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This directive clarifies the existing 1994 Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities, OSWER Directive 9355.4-12. Specifically, this directive clarifies OSWER's policy on (1) using EPA's Science Advisory Board (SAB) reviewed Integrated Exposure Uptake Biokinetic Model (IEUBK) and blood lead studies, (2) determining the geographic area to use in evaluating human exposure to lead contamination ('exposure units'), (3) addressing multimedia lead contamination and (4) determining appropriate response actions at lead sites. The purpose for clarifying the existing 1994 directive is to promote national consistency in decisiondirective is to promote national consistency in decision-making at CERCLA and RCRA lead sites across the country.

Keywords: *Superfund, *Lead(Metal), *Soil contamina-Reywords: "Supertund, 'Lead(Metal), 'Soil contamina-tion, Pollution sampling, Land pollution control, Screening, Remedial action, Site characterization, Hazardous materials, Pollution regulations, RCRA(Resource Conservation and Recovery Act), CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB98-963251REB PC A99/MF A06 Designs for Air Impact Assessments at hazardous Waste Sites (165.16). Student Manual. Manual. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jul 98, 620p, EPA 540-R-98-036, OSWER-9285.9-33. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This course is intended for U.S. Environmental Protectris course is interlocation 0.3. Environmental Protection Agency (EPA) On-Scene Coordinators and Remedial Project Managers, as well as other personnel who are responsible for evaluating risk using air modeling strategies and air monitoring and sampling. Case studies, demonstrations, group discussions, and lectures will help prepare participants to: define air impact assessment objectives; evaluate air monitoring, air sampling, and air modeling data to develop an air impact assessment; define air impact assessment assumptions. tions given specific site conditions and operations; implement appropriate quality assurance and quality control when developing an air impact assessment; develop air impact assessment work plans for hazardous waste sites; and implement air impact assessment work plans for hazardous waste sites.

Keywords: "Hazardous materials, "Environmental impact assessments, "Air sampling, "Occupational safety and health, "Training manuals, Air monitoring, Risk assessments, US EPA, Design, Site characterization, Mathematical models, Education.

PB98-963259REB PC A02/MF A01 Office of Solid Waste and Emergency Response Procedures for Contract Laboratory Program Investigations. Directive

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 8 Nov 95, 8p, EPA/540/F-98/042, OSWER-9240.0-29P.

Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This memorandum restates for Superfund program of-fices existing Office of Solid Waste and Emergency Response (OSWER) procedures and program respon-sibilities during investigations of Contract Laboratory Program (CLP) laboratories and/or laboratory employ-ees by the Office of Inspector General (OIG) for al-leged fraud or other corrupt practices. Potential OSWER actions during any subsequent criminal, civil or administrative actions are also discussed.

Keywords: Procedures, Investigations, Programs, Responsibilities, Fraud, Corruption, "Contract Laboratory Program(CLP), "Office of Inspector General(OIG), Office of Solid Waste and Emergency Refice of Solid sponse(OSWER).

PB98-963260REB PC A03/MF A01 PB98-963260REB PC A03/MF A01
Brownfields Economic Revevelopment Initative:
Proposal Guidelines for Brownfields Job Training
and Development Demonstration Pilots.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Mar 98, 18p, EPA 500-98-142, OSWER-9230.0-8.
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folitel image.

The brownfields environmental job training and development pilots will each be funded up to \$200,000 over two years. These funds are to be used to bring together community groups, job training organizations, edu-cators, investors, lenders, developers, and other affected parties to address the issue of providing training for residents in communities impacted by brownfields. The goals of the pilots are to facilitate cleanup of The goals of the pilots are to facilitate cleanup of brownfields sites contaminated with hazardous substances and prepare the trainees for future employment in the environmental field. EPA expects to select approximately 10 Brownfields Environmental Job Training and Development pilots by the end of July 1998. Pilot applicants must be located within or near one of the 121 pre-1998 brownfields assessment pilot communities. Colleges, universities, non-profit training centers. communities. Colleges, universities, non-profit training centers, community job training organizations, states, towns, counties, U.S. Territories, and Federally recognized Indian Tribes are eligible to apply for the tunds. EPA welcomes and encourages applications from coalitions of such entities, but a single eligible entity must be identified as the legal recipient.

Keywords: "Urban development, "Abandoned sites,
"Job training, Hazardous materials, Waste management, Remediation, Pollution control, Superfund,
Training manuals, "Brownfields Redevelopment Program, RCRA(Resource Conservatin and Recovery
Act), EPCRA(Emergancy Planning and Community
Righto-to-Know Act).

Prisis-963307REB PC A06/MF A01
Quality Assurance Guidance for COnducting
Brownfields Site Assessments.
Environmental Protection Agency, Washington, DC.
Office of Emergency and Remedial Response.
Sep 98, 78p, EPA 540-R-98-038, OSWER-9230.0-83P.

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This guidance document serves to inform Brownfields site managers of important quality assurance concepts and issues, and provides a road map for identifying the

type and quality of environmental data needed to present a clear picture of the site's environmental con-

Keywords: "Site characterization, "Quality assurance, Urban renewal, Reuse, Economically depressed areas, Blighted areas, Contamination, Risk assessment, Quality control, *Brownfields Redevelopment Program, Data quality objectives.

PC A01/MF A01 PR98-963401RFR Concurrence Policy for Mercury Removals. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 5 Dec 98, 4p, EPA/541/F-98/019, OSWER-9360.1-05. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available. in paper copy or microfiche. Product reproduced from digital image.

The purpose of this memorandum is to modify the Headquarters concurrence requirements for removal actions addressing certain residential mercury contamination. It anticipated that most future mercury-removals will continue to consist of individualized, small scale actions (such as those related to mercury theft and transport to the home from school buildings). Today's policy should be used in these instances. Largerscale or unique mercury removal actions or mercury removal actions with the potential to substantially im-pact Regional or national budgets for removal should continue to follow the previous, formal concurrence

Keywords: "Mercury, "Concurrence policy, "Removal actions, Residential contamination, Budgets.

PC A06/MF A01

Human Health Risk Assessment Research Strategy. External Review Draft. Draft rept.
Environmental Protection Agency, Washington, DC.
Office of Research and Development.
V. Dellarco, H. Gibb, S. McMaster, J. Orme-Zavaleta, and D. Pahl, Feb 98, 86p. and D. Parli. Feb 98, 86p.

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This document describes the direction in which the Office of Research and Development (ORD) human health risk assessment research program is expected health risk assessment research program is expected to evolve over the next several years. The ORD research planning process involves a series of steps designed to identify, verify, and document research priorities. This research strategy represents a step in this process; it is both an elaboration of the description of ORD's human health risk assessment research program contained in the ORD Strategic Plan and an outline for development of the more specific laboratory/center implementation plans. This document describes center implementation plans. This document describes ORD's human health research program that addresses key uncertainties in human health risk assessment. This research strategy is an attempt to build consensus for a focused, integrated research agenda that will strengthen the scientific foundation for future risk assessments.

Keywords: "Management planning and control, "Medical research, "Public health, "Health care man-agement, "Risk analysis, Decision making, Strategy, Humans, Data acquisition, External, Research management.

ADA350501REB PC A02/MF A01 Development of a New Generation of Small Scale Blomass-Fueled Electric Generating Power Plants. Technical rept. 21-24 Aug 95.

Environmental Protection Agency, Research Triangle

J. D. Criag, and C. R. Purvis. Aug 95, 10p. Prepared in collaboration with Cratech, Inc., Tahoka,

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There exists a need by a large worldwide market for greatly improved small scale (1 to 20 MWe per unit)

biomass-fueled power plants. These power plants will significantly increase the efficiency of generating electric power from wood and bagasse as well as convert non-traditional fuel sources such as rice bulls, animal non-traditional ruel sources such as nice buils, animal manure, cotton gin trash, straws, and grasses to electricity. Advancing the technology of biomass-fueled power plants will greatly expand the use of this environmentally friendly sustainable 24 br-per-day source of electrical power for industry and communities worldwide. This paper briefly describes the status of a biomass-fueled power plant under development by Cratech, Inc.

Keywords: "Electric power plants, "Biomass conversion, Global, Industries, Marketing, Communities, Efficiency, Fuels, Electricity, Solid wastes.

Remediation Using Plants and Plant Enzymes: A Progress Report. Progress rept. Environmental Protection Agency, Research Triangle Park, NC. Office of Research and Development. Apr 95, 3p. ADA350530REB PC A01/MF A01

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Sediments have been shown to contain active enzymes that can degrade nitroaromatic compounds such as TNT or chlorinated solvents such as TCE. Five classes of proteins have been isolated and partially classes of proteins have been isolated and partially characterized. Three of the classes of proteins have been used for the production of monoclonal antibodies to determine the possible sources of these proteins. In every case, the sources are plants growing near the sediment. The use of plants for remediation of hazardous materials such as TNT or other munitions like RDX and LHMV has led to a new personet to remediation. and HMX has led to a new approach to remediation-phytoremediation. Investigators have developed a field test to indicate which locally grown plants can be used at each contaminated site.

Keywords: *Enzymes, *Biodegradation, Proteins, Solvents, Aromatic compounds, Contamination, Monoclonal antibodies, Waste recycling, Chlorination, Sediments, Rotx, Trit, Hazardous materials, Plants(Botany), Enzyme chemistry, Nitrogen compounds, Biomass conversion, Hmx, Phytoremediation, Nitroaromatic compounds.

ADA350763REB PC A01/MF A01

ADA350763REB PC A01/MF A01
Tracers Detect Aquifer Contamination.
National Risk Management Research Lab., Ada, OK.
C. Enfield. Jul 95, 5p.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285
Port Royal Road, Springfield, VA, 22161, USA.

The EPA's National Laboratory (NRMRL) at Ada, OK, along with the University of Florida and the University of Texas, have developed a tracer procedure to detect the amount of contamination in aquifer formations. The ure amount of contamination in aquirer formations. In a tracer procedure has been successfulty applied in a highly controlled field experiment in a contaminated cobbly, sandy gravel aquirer at Hill Air Force Base in Layton, UT. the tracer procedure should substantially improve our ability to remediate aquirers and is an im-provement over the tractitional reliance upon water samples from monitoring wells and core samples.

Keywords: "Detection, "Aquifers, "Contamination, "Tracer studies, Monitoring, Water, Field tests, Gravel, Sand, Water pollution, Sampling, Labeled substances, Water wells, Core sampling, Epa(Environmental protection agency), Aquifer remediation, Hydraulic gra-

ADA351092REB PC A01/MF A01 Biochemical Remediation Using Plant Enzymes. and.

Environmental Research Lab., Athens, GA Environmental Research Lab., Attens, GA.

N. L. Wolfe. Jun 94, 5p, EPA/600/R-94/092.

Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.ledworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

EPA PUBLICATIONS BIBLIOGRAPHY

The transformation of trinitrotoluene (TNT) to environmentally acceptable compounds is achieved through a lab-developed process that uses common aquatic weeds containing a nitroreductase enzyme. This research breakthrough provides an efficient and inexpensive technology for the cleanup of soils contaminated with munitions waste at military installations and

Keywords: *Enzymes, *Tnt, *Soil remediation, Military facilities, Munitions industry, Aquatic weeds, Trinitrotoluene, Nitroreductase.

Nuneu-1634REB PC A05/MF A01
Lost Source Exercise 1997: An Exercise of Radiological Response through Cooperation and coordination of Local, State and Federal Agency Resources under the National Contingency Plan.
Technical rept. PC A05/MF A01

Technical rept.

Nuclear Regulatory Commission, Washington, DC. Office for Analysis and Evaluation of Operational Data.

B. Belanger, B. Steuteville, D. Chawaga, and E.

Weinstein. Aug 98, 56p.

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The report describes an exercise that demonstrated an emergency response and source recovery operation involving the private sector, county government and state government, utilizing federal assistance from multiple federal agencies. The federal assistance was provided under the National contingency Plan (NCP) using the notification and communications procedures as described in the Federal Radiological Emergency Response Plan (FRERP). The FRERP identifies the EPA as the Lead Federal Agency (LFA) under certain circumstances. These circumstances include events where radioactive materials licensed by the NRC are involved but the identify of the licensee is unknown. This designation from the FRERP was used as a model in this simulated NCP response. The report shows how such a response would be conducted, and may be useful for training in emergency response and as a blueprint for future exercises of similar nature.

Keywords: "Emergency planning, "Radioactive materials, "State planning, Emergency preparedness, Coordination, Emergencies, Training, Local planning, Interagency coordination, Interagency cooperation, Procedures, Radiation protection, Health physics, "Lost Source Exercise, Emergency response, FRERP(Federal Radiological Emergency Response Plan)

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May 97, 1 CD-ROM.

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Keywords: *Data file, *Law(Jurisprudence), *Environmental offenses, Judicial decisions, Enforce-ment. Regulations, Tracking, Diskettes, Keywords: ment, Regulations, Tracking, *Environmental Protection Agency, *Cases.

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Contains search and retrieval software. Data format: ISO 9660. Windows version requires 386 or greater processor with 4 MB RAM and Windows 3.1 or greater. Mac version requires 68020 processor or greater with 2 MB RAM and System 7.0 or greater. 'Adobe Acrobat Reader with Search for CD' software is provided. Supersedes PB97-503197, PB97-501423 and PB97-502596.

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Keywords: "Data file, "Chemical compounds, "Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Data bases, CD-ROM, "Chemical substances inventory, CAS Registry Number, Molecular formula, SARA(Superfund Amendments and Reauthorization Act).

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PB97-964508REB 98-04 PC A18/MF An4

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Superfund Record of Decision (EPA Region 10): Fort Richardson (USArmy), Operable Units A and B, Anchorage, AK, September 15, 1997. AK., September 15 PB97-964614REB 98-04 PC A09/MF A02

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Verification Testing of Air Pollution Control Technology. PB98-145576REB 98-03 PC A03/MF A01

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Zeolite: A Versatile Air Pollutant Adsorber. PB98-159924REB 98-04 PC A03/MF A01

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.

SAMPLE ENTRY

Use: Keywords Term

Title

RECYCLED MATERIALS

Engineering and Environmental Aspects of Recycled Materials for Highway Construction

PB94-100443/REB

PC A10/MF A03

NTIS Order Number/Media Code Price Codes

1-1-1-2-3-3-HEXAFLUOROPROPANE Energy Consumption Comparisons for High Efficiency versus Low Efficiency Central Filters.
PB98-142235REB 98-03 PC A03/MF A01 **AEROBIC CONDITIONS** Wastewater Treatment Process.
PB98-115371REB

Variety Services (Trade Name)
PC A03/MF A01 New Chemical Alternative for Ozone-Depleting Sub-stances: HFC-236ea. PB98-127384REB 98-02 PC A07/MF A02 Effects of Fan Cycling on the Particle Shedding of Particulate Air Filters Used for IAQ Control.
PB98-147150REB 98-03 PC A02/MF A01 1-3-BUTADIENE Bioaugmentation with 'Burkholderia cepacia' PR1 301 for In situ Bioremediation of Trichloroethylene Contaminated Health Risk Assessment of 1,3-Butadiene.
PB98-133010REB 98-02 PC A15/MF A03 AIR FLOW Groundwater. PR98-141542RFR 98-03 PC A03/MF A01 1-OCTEN-3-OL Indoor Air Quality Large Building Characterization Project Pasticide Fact Sheet: 1-Octen-3-o1, August 1988. PR99-165186REB 98-04 PC A02. **AEROSOLS** Planning. PB98-147184REB 98-03 PC A02/MF A01 Fluxes of Trace Elements in Aerosol Particles Dry Depositing to the Chesapeake Bay Watershed.

PB98-119266REB 98-02 PC A04/MF A01 PC ANS/ME ANT Novel, Whole-Field, Non-Intrusive Diagnostic Technique for Improvement of Indoor Air Quality.
PB98-151673REB 98-04 PC A03/MF A01 ABANDONED SITES Introduction to: Brownfields Economic Redevelopment Initiative and Environmental Justice (Updated February Design of an Aerosol Mass Spectral Interface.
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PB98-151673REB 98-04 PC A03/MF A01 Ecological Effects of Tropospheric Ozone: A U.S. Perspective; Past, Present and Future.
PB98-116387REB 98-01 PC A04/MF A01 (on Diskette). PR98-500416REB 98-01 Diskette \$50 00 Effervescent Atomization at Low Air/Liquid Ratios.
PB98-155062REB 98-04 PC A03/MF A01 ABILITY TO PAY AIR POLLUTANTS SAB Report: Review of the EPA Draft Mercury Study Report to Congress. Review of the EPA's Mercury Report to Congress by the Mercury Review Subcommittee.

PG A08/MF A02

PC A08/MF A02 General Policy on Superfund Ability to Pay Determina-Characterization of Aerosol Consumer Products. PB98-155096REB 98-04 PC A03/MF A01 PR97-199731RFR 98-01 PC A04/MF A01 INDIPAY Model: Evaluates Individual Taxpayer's Claims of Inability to Afford Penalities and Compliance Costs (on Aerosol Fitration Efficiency of In-Duct Air Cleaners.
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PB98-116460REB 98-02 PC A03/MF A01 Diskette). AFROSPACE INDUSTRY 98-01 Diskette \$50.00 Guideline Series: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manu-facturing and Rework Operations. P898-135445REB 98-03 PC A05/MF A01 ABEL Model: Evaluates Corporations' Claims of Inability
for Penalities and Compliance Costs (Version 2.9) Atmospheric Deposition in Maryland: Assessment of Status, Trends, and Environmental Effects.
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PB98-165137REB 98-04 PC A09/MF A02 EPA (Environmental Protection Agency) Publications Bibliography, Quarterly Abstract Bulletin.
SUB-9042REB 98-02 Subscription ACCIDENTAL RELEASES National Emission Standards for Hazardous Air Pollutants Risk Management Programs. 40 CFR Part 68. P897-963259REB 98-02 PC A25/MF A04 (NESHAP) for the Aerospace Manufacturing and Rework Industry: Background Information for Promulgated Standards. Addendum. AIR POLLUTION ABATEMENT ACETRONITRILE PR98-158538RFR Acetonitrile Field Test. PB98-133143REB 98-04 PC A05/MF A01 Risk Management Programs. 40 CFR Part 68. PB97-963259REB 98-02 PC A25/MF A04 98-03 PC A17/MF A03 **AFFORDABILITY** Information for States on Developing Affordability Criteria for Drinking Water.

PB98-133325REB 98-02 PC A05/MF A01 ACID RAIN PROGRAM Paint Spray Booth Design Using Recirculation/Partitioning Compliance Report, 1996: Acid Rain Program. Plants Affected by Phase 1 of the Acid Rain Program in 1996.
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PB98-122195REB 98-02 PC A08/MF A02 Greenhouse Gases from Anaerobic Decomposition of ACED STREAMS Statistical Analysis of the Extensive Component of the Maryland Department of the Environment Stream Acidification Monitoring Program.

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Project Symposium. Held in Washington DC. on September 22-26, 1997.
PB98-136955REB 98-03 PC A13/MF An3 ACIDIFICATION Examination of the Effects of Habitat Quality, Land Use, and Addification on the Macroinvertebrate Communities of Coastal Plain Streams. Demonstration of a Paint Spray Booth Emission Control Strategy Using Recirculation/Partitioning and UV/Ozone Pollutant Emission Control. Volume 2. Appendices A-E. PB98-124324REB 98-02 PC A15/MF A03 **AGRONOMY** 98-02 PC A07/MF A02 PB98-125362REB Influence of Adverse Soil Conditions on the Formation and Function of Arbuscular Mycorrhizae.

PB98-145626REB 98-03 PC A04/MF A01 **ACTIVATED CARBON** Reducing Solvent and Propellant Emissions from Con-Experimental Study on Mercury Sorption by Activated Carbons and Calcium Hydroxide. sumer Products. PB98-140262REB AHERA (ASBESTOS HAZARDS EMERGENCY RESPONSE 98-03 PC A03/MF A01 Fuel Cell Bus Demonstration in Mexico City.
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PB37-963157REB 98-04 PC A06/MF A01 Superfund Record of Decision Amendment (EPA Region 4): Marzone Inc./Chevron Chemical Company, Tifton, GA., June 18, 1997.
P897-963158REB 98-03 PC A04/MF A01 Superfund Record of Decision Amendment (EPA Region 4): Munisport Landfill, North Miami, FL., September 5, 4): Munisport Land 1997. PB97-963159REB 98-04 PC A05/MF A01 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Fort Ord, Operable Unit 2, Marina, CA., January 17, 1997. P897-963160REB 98-03 PC A02/MF A01 Assessing Reports of Continuous Releases of Hazardous Substances. A Guide for EPA Regions.
PB97-963313REB 98-03 PC A05/MF A01 Reporting Requirements for Continuous Releases of Hazardous Substances. A Guide for Facilities on Compliance. PB97-963314REB 96-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 1): Cheshire Groundwater Contamination, Cheshire, CT., December 31, 1996. PB97-963701REB 98-04 PC A06/MF A01 Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 13, Limestone, ME., June 16, PB97-963702REB Superfund Record of Decision (EPA Region 1): Davis Glocester-Smithfield Regional (GSR) Landfill Site, Glocester/Smithfield, RI., September 29, 1997. PC A10/MF A02 Superfund Record of Decision (EPA Region 1): Davisville Navel Construction Battalion Center, Site 09, North Kingstown, RI., September 29, 1997. PB97-963/704REB 98-03 PC A15/MF A03 Superfund Record of Decision (EPA Region 1): Fort Devens (Areas of Contamination 43G and 43J), Fort Devens, MA, October 17, 1996. PB97-985/70SREB 98-03 PC A10/MF A02 Superfund Record of Decision (EPA Region 1): Fort Devens (Area of Contamination 63AX), Fort Devens, MA., September 29, 1997. PB97-963706REB 98-03 PC A06/ME A01 Superfund Record of Decision (EPA Region 1): Fort Devens-Sudbury Training Annex (Areas of Contamination A4, A7, and A9), Middlesex County, MA., September 30, 1997. PB97-963707REB 98-04 PC A08/MF A02 Superfund Record of Decision (EPA Region 1): Gallup's Quarry Superfund Site, Plainfield, CT., September 30, 1997. PB97-963708REB 9R-04 PC: A09/ME A02 Superfund Record of Decision (EPA Region 1): New London Submarine Base, New London, CT., September 18, 1997. PR97-963709RFR 98-03 PC A03/MF A01 Superfund Record of Decision (EPA Region 1): Pease Air Force Base Brooks/Ditches Operable Unit, Portsmouth/ Newington, NH., September 30, 1997. PC A13/MF A03 PC A13/MF A03 Superfund Record of Decision (EPA Region 2): Federal Aviation Admin Tech Center, (Area P) (Building 204) (Fuel Spill Area), Attantic County, N.J., February 13, 1997. P897-963901 RIEB Superfund Record of Decision (EPA Region 2): Platts-burgh Air Force Base (Former Landfill LF-021), Platts-burgh, NY., March 25, 1997. PB97-963802/REB 98-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 2): Platts-burgh Air Force Base, (Former Landfill LF-024), Platts-burgh, NY., March 25, 1997. P897-963803REB 98-03 PC A07/MF A02 Superfund Record of Decision (EPA Region 2): Jones Sanitation, Hyde Park, NY., March 31, 1997.
PB97-963804REB 98-03 PC A08/MF A02
Superfund Record of Decision (EPA Region 2): Robintech, Inc., National Pipe Compnay, Town of Vestal, NY., July 25, 1997.
PB97-963805REB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 20 (Site 28 Soil and Groundwater), Lakehurst, N.J., July 7, 1997. PB97-963806REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 21 (Areas A and B Groundwater), Lakehurst, N.J., July 7, 1997. PB97-96380/TREB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 24 (Area K Ground-water), Lakehurst, NJ., July 7, 1997. 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 2): Federal Aviation Administration Technical Center, (Areas A, J, and N), Attantic County, NJ., July 21, 1997. P807-963809REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (site A), Operable Unit 1, Cotts Neck, NJ., September 25, 1997.
P897-963810REB 98-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 2, Cotts Neck, N.J., September 25, 1997.
PB97-963811REB 98-03 PC A06/MF A01

Superfund Record of Decison (EPA Region 2): Global Sanitary Landfill Operable Unit 2, Old Bridge Township, NJ., September 29, 1997.

98-03 PC A07/MF A02 PR97-963812RFR

Superfund Record of Decision (EPA Region 2): Higgins Disposal Site Operable Unit 1, Kingston, NJ., September PB97-963813REB 98-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 2): Janssen Inc., Operable Unit 1, Gurabo, PR., September 30, 1997. P897-963814REB 98-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 2): Curcio Scrap Metal Inc., Operable Unit 2, Saddle Brook, NJ., September 30,

1007 PR97-963815RFB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Operable Unit 4, Oswego, NY., September 30, 1997.

98-03 PC A06/MF A01 PB97-963816REB

Superfund Record of Decision (EPA Region 2): Richardson Hill Road Landfill/Pond, Sidney Center, NY., September 30, 1997. 98-03 PC A07/MF A02

PB97-963817REB Supertund Record of Decision (EPA Region 2): Naval Security Group ACtivity, Operable Unit 1 (Sites 2 and 4), Sabana Seca, PR., September 30, 1997.
P897-963818REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Naval Security Group Activity, Operable Unit 3 (Sites 1 and 3), Sabana Seca, PR., September 30, 1997. PB97-963819REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Grand Street Mercury Site, Hoboken, N.J., September 30, 1997. P897-963820REB 98-04 PC A99/MIF A06

Superfund Record of Decision (EPA Region 2): Vega Alta Public Supply Wells, Operable Unit 2, Vega Alta PR., September 30, 1997. PB97-963821REB 98-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 3): Avco Lycoming/(Williamsport Division), Williamsport, PA., December 30, 1996. P897-963901REB 98-03 PC A03/MF A01

Superfund record of Decision (EPA Region 3): Crossley Farm, (Hereford Groundwater), Hereford, PA., June 30, 1997.

98-03 PC A04/MF A01 PR97-963902RFB

Superfund Record of Decision (EPA Region 3): Berks Landfill, Spring Townshop, PA., July 22, 1997. PB97-963903REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): Jacks Creek/Siltún Smetting and Refinery Inc., Site, Village of Malitand, PA., September 30, 1997. PB97-963904REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): North Penn - Area 12, Worcester Township, PA., September

P897-963905REB 98-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 3): Allegany Balistics Laboratory (USNavy), Operable Unit 1, Mineral, WV., February 12, 1997.
P897-963906REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Beach Point Test Site, Aberdeen Proving Ground, MD., September 24, 1997. PB97-963907REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Watson Creek Sediment, O-Field Operable Unit, Aberdeen Proving Ground, MD., September 23, 1997.

98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Michaelsville Landfill), Aberdeen Proving Ground, MD., September 23, 1997.
PB97-963909REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Marine Corps Combat Development Command (Site 4), Operable Unit 4, Quartico, VA., September 30, 1997. PB97-963910REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Tobythanna Army Depot, Operable Unit 1, Tobythanna, PA, September 30, 1997. PB87-963911REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory, (USNavy), Operable Unit 3, Mineral, WV., May 29, 1997.
PB97-963912REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (LF 13), Dover, DE., September 30, 1997. P897-963913REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (WP 14 and LF 15), Dover, DE., September 30, 1997.
P897-963914REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (FT 03), Dover, DE., September 30, 1997. PB97-963915REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, War-minster Township, PA., September 30, 1997. PB97-963916REB 98-04 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 2, Dahlgren, VA., September 29, 1997.

98-03 PC A05/MF A01 PB97-963917REB

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 12, Dahlgre, VA., September 30, 1997. PB97-963918REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Site 12, Operable Units 3, 4, and 5, Yorktown, VA., April 16, 1997. PB97-963919REB PC A10/MF A03

Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation (US Navy), Operable Unit 7, Sites 1, 28, and 30, Onslow County, NC., October 9,

PR97-964001RFR 98-03 PC A07/ME A02

Superfund Record of Decision (EPA Region 4): Escambia Wood - Pensacola (aka: Escambia Treating Company Site), Pensacola, FL., February 12, 1997. PB97-964002REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Co., Pontiac, SC., December 19, 1996. PB97-964003REB 98-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 6, (Area B) Study Areas 2, 10, 16, 17, and 22, Childersburg, AL., March 27, 1997.

PB97-964004REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 5, Childersburg, AL, March 27, 1997. P897-964005REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 14, Aiken, SC., March

PB97-964006REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 5, Aiken, SC., March 27, 1997. 98-03 PC A03/MF A01 PB97-964007REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 4, Aiken, SC., March 27, 1997.
PB97-984008REB 98-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 13, Aiken, SC., March River Site (USDOE), 27, 197. PB97-964009REB

98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March

27, 1997. PB97-964010REB 98-03 PC A03/MF A01 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March

PR97-964011RFB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albany, GA., September 2, 1997. PS97-964012REB PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Abany, GA, September 2, 1997. P897-964013REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Poplar Creek Characterization Area), Oak Ridge, TN., July 10, 1997.
PB97-964014REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) (Sludge Removal from the Gunite and Associated Tanks Operable Unit, Waste Area Grouping 1), Oak Ridge, TN., September 2, 1997. PB97-964015REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL, September 18, 1997.
PB97-964016REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Clinch River and Poplar Creek Operable Units, Oak Ridge, TN., September 23, 1997 PB97-964017REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) (Waste Area Group 17), Paducah, KY., September 29, 1997. PB97-964018REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997.

9897-984019REB

98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., September 16, 1997.
PB97-964020REB 98-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18, 1996.

Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Columbia MS., August 8, 1997. PB97-964022REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January

98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, 1007

PB97-964024REB 98-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Sitr (USDOE), Operable Unit 11, Central Shops Burning/Rubble Pit (631-6G) (U), Aiken, SC., May 14, 1997

PB97-964025REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 10, Pensacola, FL, September 15, 1997.
PB97-984027REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 14, Oak Ridge, TN., September 25, 1997.
PB97-964028REB 98-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 12 (Site 3), Onslow County, NC., May 15, 1997. P897-964029REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 13 (Site 63), Onslow County, NC., May 15, 1997. P897-964030REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Aiken, SC., September 30, 1997.
PB97-964031REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 16, Old F Area Seepage Basin (904-49G), Aiken, SC., May 14, 1997. PB97-964032REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemical Company Site, (Dover Plant), Dover, OH., March 31, 1997. PB97-964101REB

98-04 PC A08/MF A02 Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Ml., February 5, 1997.
PB97-964102REB 98-04 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997. PB97-984103REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, Ml., September 30,

1997 PB97-964104REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Tippe-cance Sanitary Landfill, Inc., Lafayette, IN., September 30, 1997. PB97-964105REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Tomah Armory Landfill, Tomah, WI., September 23, 1997. PB97-964106REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, WI., September 25, 1997

PB97-964107RER 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): South Point Plant Site, South Point, OH., September 26, 1997. PB97-964108REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Marion (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997.
PB97-964109REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson Air Force Base, Operable Unit 2, Dayton, OH., Ssptember 30, 1997.
PB97-964110REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, Mt., September 30, 1997.
PB97-964111REB 98-03 PC A06/MF A01

Superlund Record of Decision (EPA Region 5): Scrap Processing Co., Inc., Medford, WI., September 30, 1997. PB97-964112REB 96-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 2, Ashtabula, OH., September 29, 1997. PB97-964113REB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 5): Bendix Corp/Allied Automotive, St. Joseph, Ml., September 30, 1997. 98-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Cartenville, IL., February 19, 1997. 98-03 PC A07/MF A02 PB97-964116REB Superfund Record of Decision (EPA Region 5): Roto-Finish Co., Inc., Kalarnazoo, Ml., March 31, 1997. PB97-964117REB 98-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, WL, March 31, 1997. PB97-964118REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA., March 4, 1997. P897-964201REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 6): National Zinc Corp., Operable Unit 2, Bartlesville, OK., October 2, 1997. 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 6): Southern Shipbuilding Corp., Operable Unit 2, Sidell, LA., September 15, 1997.
P897-964203REB 98-03 PC A07/MF A02 Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 3, Dallas, TX., September 30, 1997. PB97-964204REB 98-04 PC A12/MF A03 Supertund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Dallas, TX., April 3, 1997.
PB97-864205REB 96-03 PC A09/MF A02 Superfund Record of Decision (EPA Region 6): Tar Creek (Ottawa County), Operable Unit 2, Ottawa County, OK., August 27, 1997. PB97-864206REB 98-03 PC A13/MF A03 Supertund Record of Decision (EPA Region 9): Agri-culture Street Landfill, Operable Unit 4 and 5, New Orle-ans, LA., September 2, 1997. PB97-964207REB 98-03 PC A12/MF A03 98-03 PC A12/MF A03 Superfund Record of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1998. PB97-964301REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 7): Cherokee County (Bauter Springs and Treece Subsites), Operable Unit 3/4, Cherokee County, KS., August 20, 1997. PE97-964302REB 98-03 PC A12/MF A03 Superfund Record of Decision (EPA Region 7): Fort Riley Pesticide Storage Facility, Operable Unit 2, Junction City, KS., September 29, 1997. 98-03 PC A05/MF A01 PB97-964303REB Superfund Record of Decision (EPA Region 7): Nebraska Ordance Plant (Former), Operable Unit 2, Mead, NE., Ordnance Plant (Fo April 7, 1997. PB97-964304REB 98-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 7): Bee Cee Manufacturing Co., Malden, MO., September 30, 1997. PB97-964305/REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 8): Elisworth Air Force Base, Operable Unit 11, Elisworth Air Force Base, SD., April 28, 1997.
PB97-964401 REB 98-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 8): California Guich, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 8): F E War-ren Air Force Base, Operable Unit 8, Cgeftyenne, WY., November 21, 1997. PB97-964403REB 98-04 PC A04/MF A01 Superfund Record of Decision (EPA Region 8): F E War-ren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997. PB97-964404REB 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., Feb-ruary 27, 1997. PB97-864405REB 98-03 PC ANAME And Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 3, Golden, CO., June 3, 1997. PB97-964405REB 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30, 98-03 PC A07/MF A02 PB97-964407REB Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30, 1997 P897-96440ARFR 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, Hl., November 8, 1996. PB97-964501REB 98-03 PC A09/MF A02 Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, HI., Febnary 7, 1997.
PB97-964502REB 98-03 PC A07/MF A02 Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997. PB97-964503REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January PB97-964504REB 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Liver-more, CA., January 29, 1997. PB97-96450SREB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 9): Western Pacific Railroad Company, Oroville, CA., September 30, 1997. PB97-964506REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 9): Moffett Naval Air Station, Operable Unit 1, Sunnyvale, CA., Auust 14, 1997. gust 14, 1557. PB97-964507REB 98-04 PC A11/MF A03 Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 3 and 4, Barstow, CA, June 3, 1997.
P897-964508REB 98-04 PC A18/MF A04 Superfund Record of Decision (EPA Region 9): Del Amo Facility Waste Pits Operable Unit, Los Angeles, CA., Sep-tember 5, 1997. PB97-964509REB 98-04 PC A15/MF A03 Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30, 1997. PB97-964510REB 98-04 PC A07/MF A02 Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September Groundwater Contamina 26, 1997. PB97-964511REB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 9): Castle Air Force Base, Merced, CA., May 21, 1997. PB97-964512REB 98-04 PC A12/MF A03 Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Units 2A and 3A (No Action Sites), El Toro, CA., September 29, 1997. PB37-964513REB 98-04 PC ATOMIF A02 Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Unit 2A (Site 24-VOC Source Area Vadose Zone), El Toro, CA., September 29, 98-04 PC A11/MF A03 Superfund Record of Decision (EPA Region 9): Tucson International Airport Area (Volume 1 and 2), Tucson, AZ, September 30, 1997. 98-03 PC A14/MF A03 PB97-964515REB Superfund Record of Decision (EPA Region 9): Camp Pendleton Marine Coprs Base, Operable Unit 2, San Diego, CA., September 30, 1997. PB97-9645167REB 98-04 PC A15/MF A03 Superfund Record of Decision (EPA Region 9): Norton Air Force Base, Operable Unit 3, Site 19 Waste Drum Storage Area No. 1, San Bernardino, CA., June 25, 1997. PB97-964517REB 96-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 10): Harbor Island (Lead), The Shipyard Sediment Operable Unit, Seattle, WA., November 27, 1996. 98-04 PC AD6/MF A01 Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit A) (aka: Brementon Naval Complex), Brementon, WA., January 24, PR97-964602REB 98-04 PC A08/MF A02 Superfund Record of Decision (EPA Region 10): Hanford 200 Area (USDOE), (200-UP-1 Operable Unit), Benton County, WA, February 11, 1997. PB97-964604REB 98-04 PC A06/MF A01 Superfund Record of Decision (EPA Region 10): Mon-sento Chemical Co. (Soda Springs), Soda Springs, ID., April 30, 1997. P897-964605REB 98-04 PC A07/MF A02 Superfund Record of Decision (EPA Region 10): Elmendorf Air Force Base, Operable Unit 3, Greater Anchorage Borough, AK, December 5, 1996.
PC AOS/MF A01 Superfund Record of Decision (EPA Region 10): Elmen-dorf Air Force Base, Operable Unit 6 and Source Area SS 19, Greater Anchorage Borough, AK, December 4, PB97-964607REB 98-04 PC A12/MF A03 Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 1, Fairbanks North Star Borough, AK., June 27, 1997.

98-04608REB 98-04 PC A09/MF A02 Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 2, Fairbanks North Star Borough, AK., March 31, 1997.
PB97-964609REB 98-04 PC A10/MF A03

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PB97-964008REB 98-03 PC A03/MF A01 So-us PC A03/MF A01 Supertund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 13, Aiken, SC., March 27, 197. 98-03 PC A05/MF A01 PB97-964009REB Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March 27, 1997. PB97-964010REB 98-03 PC A03/MF A01 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March 27, 1997. 98-03 PC A04/MF A01 PR97-964011RFR Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albany, GA., September 2, 1997. PB97-964012REB 96-03 PC A06/MF A01 Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Albany, GA., September 2, 1997. P897-964013REB 98-03 PC A08/MF A02 PB97-964013REB Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Poplar Creek Characterization Area), Oak Ridge, TN, July 10, 1997.
PB97-964014REB 98-03 PC A05/MF A01 Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) (Sludge Removal from the Gunite and Associated Tanks Operable Unit, Waste Area Grouping 1), Oak Ridge, TN., September 2, 1997. PB97-964015REB 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL., September 18, 1997. PB97-964016REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Clinch River and Poplar Creek Operable Units, Oak Ridge, TN., September 23, 1997. PB97-964017REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) (Waste Area Group 17), Paducah, KY., September 29, 1997. PB97-964018REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997.
P897-964019REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., September 16, 1997. PB97-964020REB

98-03 PC A06/MF A02 Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18,

1996 PB97-964021REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Co-lumbia MS., August 8, 1997. PB97-964022/REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January

23, 1997. PB97-964023REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, Belm 1997 PR97-964024RFR 98-03 PC A09/MF A02

98-03 PC A09/MF A02 Superfund Record of Decision (EPA Region 4): Savannah River Sitr (USDOE), Operable Unit 11, Central Shops Burning/Rubble Pit (631-6G) (U), Aiken, SC., May 14, 1997.

PB97-964025REB 98-03 PC A04/MF A01 Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 10, Pensacola, FL., September 15, 1997. P897-964027REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 14, Oak Ridge, TN, September 25, 1997.
PB97-964028REB 98-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation, Operable Unit 12 (Site 3), Onslow County, NC., May 15, 1997. PB97-964029REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation, Operable Unit 13 (Site 63), Onslow County, NC., May 15, 1997. PB97-964030REB 96-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Aiken, SC., September 30, 1997. PB97-964031REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 16, Old F Area Seepage Basin (904-49G), Aiken, SC., May 14, 1997. P897-964032REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemical Company Site, (Dover Plant), Dover, OH., March 31, 1997. P897-964101REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Ml., February 5, 1997.
PB97-964102REB 98-04 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997. P897-964103REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, Ml., September 30,

98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Tippe-cance Sanitary Landfill, Inc., Latayette, IN., September 30, 1997. PB97-964105REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Tomah Armory Landfill, Tomah, WI., September 23, 1997. PB97-964106REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, Wl., September 25,

98-03 PC A05/MF A01 PB97-964107REB

Supertund Record of Decision (EPA Region 5): South Point Plant Site, South Point, OH., September 26, 1997. PB97-964108REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Marion, (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997.
PB97-964109REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson Air Force Base, Operable Unit 2, Dayton, OH., Ssptember 30, 1997. PB97-964110REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, Ml., September 30, 1997.

PB97-964111REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Scrap Processing Co., Inc., Medford, WI., September 30, 1997. PB97-964112REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 2, Ashtabula, OH., September 29, 1997.

PB97-964113REB 98-03 PC A08/MF A02 Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 4, Astabula, OH., June 30, 1997.

PR97-964114RFR 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Bendix Corp/Allied Automotive, St. Joseph, Ml., September 30, 1997. PB97-964115REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Carterville, IL., February 19, 1997.
P897-964116REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Roto-Fin-ish Co., Inc., Kalamazoo, Ml., March 31, 1997. PB97-964117REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, WI., March 31, 1997.
PB97-964118REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA., March 4, 1997. P897-964201REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 6): National Zinc Corp., Operable Unit 2, Bartlesville, OK., October 2,

PB97-964202REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Southern Shipbuilding Corp., Operable Unit 2, Slidell, LA., September 15, 1997.

PB97-964203REB 98-03 PC A07/MF A02 Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 3, Dallas, TX., September 30, 1997. PB97-964204REB 98-04 PC A12/MF A03

Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Daltas, TX., April 3, 1997. 98-03 PC A09/MF A02

PB97-964205REB Superfund Record of Decision (EPA Region 6): Tar Creek (Ottawa County), Operable Unit 2, Ottawa County, OK., August 27, 1997.
PB97-964206REB 98-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 9): Agriculture Street Landfill, Operable Unit 4 and 5, New Orleans, LA, September 2, 1997. 98-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1996. 98-03 PC A05/MF A01 PB97-964301REB

Superfund Record of Decision (EPA Region 7): Cherokee County (Baxter Springs and Treece Subsites), Operable Unit 3/4, Cherokee County, KS., August 20, 1997. PB97-964302REB PC A12/MF A03

Superfund Record of Decision (EPA Region 7): Fort Riley Pesticide Storage Facility, Operable Unit 2, Junction City, KS., September 29, 1997. PB97-964303REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 7): Nebraska Ordnance Plant (Former), Operable Unit 2, Mead, NE., April 7, 1997.
PB97-964304REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Bee Cee Manufacturing Co., Malden, MO., September 30, 1997. PB97-964305REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Ellsworth Air Force Base, Operable Unit 11, Ellsworth Air Force Base, SD., April 28, 1997.
PB97-964401REB 98-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 8): California Guich, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 8, Cgehyenne, WY., November 21, 1997. PB97-964403REB 98-04 PC A04/MF A01

Superfund Record of Decision (EPA Region 8): F E War-ren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997. 98-03 PC A04/MF A01 PB97-964404REB

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., February 27, 1997.
P897-964405REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 3, Golden, CO., June 3, 1997. PB97-964406REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30,

PB97-964407REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30, 1997. PB97-964408REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, HI., November 8, 1996.
PB97-964501REB 98-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, HI., February 7, 1997.
P897-964502REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997.
PB97-964503REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January 17, 1997.
P897-984504REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Livermore, CA., January 29, 1997.

PB97-964505REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 9): Western Pacific Railroad Company, Oroville, CA., September 30,

PB97-964506REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 9): Moffett Naval Air Station, Operable Unit 1, Sunnyvale, CA., August 14, 1997.
PB97-964507REB 98-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 3 and 4, Barstow, CA., June 3, 1997.
PB97-964508REB 98-04 PC A18/MF A04

Superfund Record of Decision (EPA Region 9): Del Amo Facility Waste Pits Operable Unit, Los Angeles, CA., September 5, 1997. PB97-964509RER 98-04 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30, 1997. PB97-964510REB 98-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September 26, 1997. PB97-964511REB 98-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 9): Castle Air Force Base, Merced, CA., May 21, 1997. PB97-964512REB 98-04 PC A12/MF A03

Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Units 2A and 3A (No Action Sites), El Toro, CA., September 29, 1997. P897-964513REB 98-04 PC A10/MF A02

Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Unit 2A (Site 24-VOC Source Area Vadose Zone), El Toro, CA., September 29,

98-04 PC A11/MF A03 PR97-964514RFR

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area (Volume 1 and 2), Tucson, AZ., September 30, 1997.
PB97-964515REB 98-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 9): Camp Pendleton Marine Coprs Base, Operable Unit 2, San Diego, CA., September 30, 1997. PB97-964516REB 98-04 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Norton Air Force Base, Operable Unit 3, Site 19 Waste Drum Storage Area No. 1, San Bernardino, CA., June 25, 1997. PB97-984517REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 10): Harbor Island (Lead), The Shipyard Sediment Operable Unit, Seattle, WA., November 27, 1996. 98-04 PC A06/MF A01

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit A) (aka: Bremerton Naval Complex), Bremerton, WA., January 24, 1997.

PB97-964602REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit NSC) (aka: Bremerton Naval Complex), Bremerton, WA., December 13, 1996.

PB97-964603REB 98-04 PC A07/MF A02 Superfund Record of Decision (EPA Region 10): Hanford 200 Area (USDOE), (200-UP-1 Operable Unit), Benton County, WA., February 11, 1997.
PB97-964604REB 98-04 PC A06/MF A01

Superfund Record of Decision (EPA Region 10): Mon-santo Chemical Co. (Soda Springs), Soda Springs, ID., April 30, 1997. PB97-964605REB 98-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 10): Elmendorf Air Force Base, Operable Unit 3, Greater Anchorage Borough, AK., December 5, 1996.
PB97-964606REB 98-04 PC A05/MF A01 Requirements (CERCLA Section 103 and EPCRA Sec-SURFACE CLEANING tion 304). PB98-963230REB Demonstration of Liquid CO2 as an Alternative for Metal Parts Cleaning 98-03 PC A03/MF A01 RCRA, Superfund and EPCRA Hottine Training Module. Introduction to: Statutory Overview of CERCLA (Updated February 1998) PS98-963232REB 98-03 PC A03/MF A01 98-04 PC A02/MF A01 Superfund Record of Decision (EPA Region 10): Elmen-SURFACE COATING dorf Air Force Base, Operable Unit 6 and Source Area SS 19, Greater Anchorage Borough, AK, December 4, Utilizing Low Volatile Organic Content Exterior Coatings for Wood Furniture. RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Superfund Accelerated Cleanup Model (Updated February 1998). PB98-963233REB 98-03 PC A03/MF A01 98-01 PC A04/MF A01 PROT-DEAGNTRER 98-04 PC A12/MF A03 Development of a No-VOC/No-HAP Wood Furniture Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 1, Fairbanks North Star Borough, AK., June 27, 1997.
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PB97-963113REB 98-03 PC A04/MF A01

EPA/541/R-97/040 PROPRIETE TOWN

Superfund Explenation of Significant Difference for the Record of Decision (EPA Region 9): Tucson International Airport Area, (Areas A and B Groundwater Operable Unit), Tucson, AZ., February 27, 1997.

PB97-963116REB 98-03 PC A03/MF A01

EPA541/R-97/042 PROFILE PROFIL

EPA/541/R-97/164 Repertund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Kellog-Deering Well Field, Norwalk, CT., March 31, 1997. 98-03 PC A03/MF A01 PB97-963147REB

EPA/541/R-97/165 Record of Decision (EPA Region 1): Salem Acres, Salem, MA., April 11, 1997.

P897-63148REB 98-03 PC A02/MF A01

EPA/541/R-97/107 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Curcio Scrap Metal Inc., Operable Unit 2, Saddle Brook, NJ., September 30, 1997.

PB97-963815REB 98-03 PC A06/MF A01 EPA/541/R-97/140 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): DeRewal Chemical Co., Kingwood Township, NJ., June 12, 1997. PB87-953137REB 98-03 PC A02/MF A01

EPA/541/R-97/141 Record of Decision (EPA Region 2): Pepe Field, Boonton, N.L., July 25, 1997.
P897-963138REB 98-03 PC A03/MF A01

EPA/541/R-97/094 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Bendix Flight Sys-tems Division, South Montrose, PA., November 22, 1996. PB97-963130REB 98-03 PC A02/MF A01 EPA/541/R-97/150 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Brodhead Creek, Stroudsburg, PA., September 30, 1997. PB97-963143REB 98-03 PC A02/MF A01

EPA/541/R-97/149 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Mill Creek Dump, Erie, PA., April 30, 1997.
PB97-963142REB 98-03 PC A02/MF A01 EPA/541/R-97/151

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Paoli Rail Yard, Paoli, PA, April 2, 1997. P897-963144REB 98-03 PC A02/MF A01

EPA/541/R-97/148 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Revere Chemical Co., Nockamixon Township, PA., March 25, 1997. PB97-963141REB 98-03 PC A02/MF A01 Superfund Public Information System (SPIS) June 1998 (on CD-ROM).
PB96-502354REB 98-04 CD-ROM \$60.00

EPA/541/R-97/110 Superfund Record of Decision Amendment (EPA Region 4): Homestead AFB, FL., August 18, 1997.
PB97-963132REB 98-03 PC A04/MF A01

EPA/541/R-97/186 Superfund Record of Decision Amendment (EPA Region 4): Marzone Inc./Chevron Chemical Company, Tifton, GA., June 18, 1997.
PB97-963158REB 98-03 PC A04/MF A01

FPA/541/R-97/173 Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 4, 1997. P897-963155REB

98-03 PC A03/MF A01 EPA/541/R-97/068 Superfund Record of Decision Amendment (EPA Region 5): Arcanum Iron and Metal, Darke County, OH., June 18,

PB97-963124REB 98-03 PC A08/MF A02

EPA/541/R-97/067 Superfund Record of Decision Amendment (EPA Region 5): Clare Water Supply, Clare, MI., May 15, 1997.
PB97-963123REB 98-03 PC A03/MF A01

EPA/541/R-97/069 Superfund Record of Decision Amendment (EPA Region 5): United Scap Lead Co., Inc., Troy OH., June 27, 1997. PB97-963125REB 98-03 PC A09/MF A02

EPA/541/R-97/120 Superfund Record of Decision Amendment (EPA Region 6): Bailey Waste Disposal, Bridge City, TX., December 16, 1996. PR97-963133RFB 98-03 PC A04/MF A01

EPA/541/R-97/122 PROPAIRTH STATES

Superfund Record of Decision Amendment (EPA Region 6): Brio Refining Inc., Friendship, TX., July 2, 1997.

PB97-963135REB 98-03 PC A04/MF A01

FPA/541/R-97/009 FAUSI INTESTIGET Superfund Record of Decision (EPA Region 2): Federal Aviation Admin Tech Center, (Area P) (Building 204) (Fuel Spill Area), Altantic County, NJ., February 13, 1997. PB97-963801REB 96-03 PC ADS/MF A01

EPA/541/R-97/083 Superfund Record of Decision (EPA Region 2): Federal Aviation Administration Technical Center, (Areas A, J, and N), Altantic County, NJ., July 21, 1997. PB97-963809REB 98-03 PC A05/MF A01

EPA/541/R-97/104 Superfund Record of Decision (EPA Region 2): Higgins Disposal Site Operable Unit 1, Kingston, NJ., September 30, 1997. 98-03 PC A10/MF A02 PB97-963813REB

EPA/541/R-97/105 PAGE ITT-9/1105
Superfund Record of Decision (EPA Region 2): Janssen Inc., Operable Unit 1, Gurabo, PR., September 30, 1997. PB97-963814REB 98-03 PC A06/MF A01

EPA/541/R-97/055 Superlund Record of Decision (EPA Region 2): Jones Sanitation, Hyde Park, NY., March 31, 1997.
PB97-963804REB 96-03 PC A08/MF A02

EPA/541/R-97/079 PAC-417H-97/079

PAC-417H-97/079

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 20 (Site 28 Soil and Groundwater), Lakehurst, N.J., July 7, 1997. PS97-96390SREB PC A05/MF A01

EPA/541/R-97/080 PASS 171-97/06/J Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 21 (Areas A and B Groundwater), Lakehurst, N.J., July 7, 1997. PB97-96380/7REB 98-03 PC A05/MF A01

EPA/541/R-97/081 PAGE 17H-97/UB Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 24 (Area K Ground-water), Lakehurst, N.J., July 7, 1997. PB97-963809REB 98-03 PC A04/MF A01

EPA/541/R-97/138 PAJS-11H-9/1738
Superfund Record of Decision (EPA Region 2): Naval Security Group ACtivity, Operable Unit 1 (Sites 2 and 4), Sabana Seca, PR., September 30, 1997.
PB37-963818REB 98-03 PC A05/MF A01 EPA/541/R-97/084 Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (site A), Operable Unit 1, Colts Neck, NJ. September 25, 1997.
PB97-963810REB 98-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 2, Colts Neck, NJ., September 25, 1997.

EPA/541/R-97/085

98-03 PC A06/MF A01 P897-963811REB EPA/541/R-97/011

Superfund Record of Decision (EPA Region 2): Platts-burgh Air Force Base, (Former Landfill LF-024), Platts-burgh, NY., March 25, 1997. P897-963803REB 98-03 PC A07/MF A02

EPA/541/R-97/108 Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Operable Unit 4, Oswego, NY., September 30, 1997. PB97-963816REB 98-03 PC A06/MF A01

EPA/541/R-97/109 Superfund Record of Decision (EPA Region 2): Richardson Hill Road Landfill/Pond, Sidney Center, NY., September 30, 1997.
PB97-963817REB 98-03 PC A07/NIF An2

EPA/541/R-97/056 PADA1111-97/Ubb
Superfund Record of Decision (EPA Region 2):
Robintech, Inc., National Pipe Compnay, Town of Vestal,
NY., July 25, 1997.
PB97-963805REB 98-03 PC A08/MF A02

EPA/541/R-97/192 PADATIN-9//192
Superfund Record of Decision (EPA Region 2): Vega Alta
Public Supply Wells, Operable Unit 2, Vega Alta PR.,
September 30, 1997. PB97-963821REB 98-03 PC A12/MF A03

EPA/541/R-97/090 Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Beach Point Test Site, Aberdeen Proving Ground, MD., September 24, 1997. PB97-963907REB 98-03 PC AD5/MF A01

EPA/541/R-97/091 Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Watson Creek Sediment, O-Field Operable Unit, Aberdeen Proving Ground, MD., September 23, 1997. 98-03 PC A05/MF A01

PB97-963908REB

EPA/541/R-97/092 PAUS-1171-9/082 Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Michaelsville Landfill), Aberdeen Proving Ground, MD., September 23, 1997. PB97-963909REB 96-03 PC A04/MF A01

EPA/541/R-97/089 PAD-3171-9/7U82
Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy), Operable Unit 1, Mineral, WV., February 12, 1997.
PB97-963906REB 98-03 PC A05/MF A01

FPA/541/R-97/174 PACA11H-9/1

EPA/541/R-97/012 Superfund Record of Decision (EPA Region 3): Avco Lycoming/Williamsport Division), Williamsport, PA., December 30, 1996. 98-03 PC A03/MF A01 PB97-963901REB

EPA/541/R-97/058
Superfund Record of Decision (EPA Region 3): Berks Landfill, Spring Townshop, PA., July 22, 1997.
PB97-963903REB
98-04
PC A08/MF A02

EPA/541/R-97/057 Superfund record of Decision (EPA Region 3): Crossley Farm, (Hereford Groundwater), Hereford, PA., June 30, 1997 98-03 PC A04/MF A01 PB97-963902REB

EPA/541/R-97/177
Superfund Record of Decision (EPA Region 3): Dover Air Force Base (FT 03), Dover, DE., September 30, 1997. pp. 27-96:3915REB 98-03 PC A05/MF A01

EPA/541/R-97/175 Force Base (LF 13), Dover, DE., September 30, 1997.
PB97-963913REB 98-03 PC A05/MF A01

EPA/541/R-97/176
Superfund Record of Decision (EPA Region 3): Dover Air Force Base (WP 14 and LF 15), Dover, DE., September 30, 1997.
PB97-963914REB 98-03 PC A05/MF A01

EPA/541/R-97/087
Superfund Record of Decision (EPA Region 3): Jacks Creek/Sitkin Smething and Refinery Inc., Site, Village of Maittand, PA., September 30, 1997.
PB97-963904REB 98-03 PC A06/MF A01

EPA/541/R-97/093 Superfund Record of Decision (EPA Region 3): Marine Corps Combat Development Command (Site 4), Operable Unit 4, Quantico, VA., September 30, 1997. PB97-963910REB 98-03 PC A05/MF A01

EPA/541/R-97/178 PA/541/R-97/178
Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, Warminster Township, PA., September 30, 1997.
PB97-963916REB 98-04 PC A04/MF A01 EPA/541/R-97/179 Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 2, Dahlgren, VA., Septem-

PB97-963917REB 98-03 PC A05/MF A01

FPA/541/R-97/180

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 12, Dahlgre, VA., Septem-

PB97-963918REB 98-03 PC A05/MF A01

FPA/541/R-97/181 PROPERTY: 1715/161 PROPERTY: PROPERTY: PROPERTY: PROPERTY: Noval Weapons Station-Yorktown, Site 12, Operable Units 3, 4, and 5, Yorktown, VA., April 16, 1997.
PB97-963919REB 98-03 PC A10/MF A03

EPA/541/R-97/088

Superfund Record of Decision (EPA Region 3): North Penn - Area 12, Worcester Township, PA., September PB97-963905REB 98-03 PC A09/MF A02

EPA/541/R-97/182

Posticide Dumps, Operable Unit 5, Aberdeen, NC., September 16, 1997. 98-03 PC A06/MF A02

EPA/541/R-97/021 Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 5, Childersburg, AL, March 27, 1997.
PB97-964005REB 98-03 PC A07/MF A02

EPA/541/R-97/020 Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 6, (Area B) Study Areas 2, 10, 16, 17, and 22, Childersburg, AL., March 27,

PB97-964004REB 98-03 PC A05/MF A01 EPA/541/R-97/211

Experium STZETT Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation, Operable Unit 12 (Site 3), Onslow County, NC., May 15, 1997.
P897-964029REB 98-03 PC A08/MF A02

EPA/541/R-97/212 Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation, Operable Unit 13 (Site 63), Onstow County, NC., May 15, 1997.
PB97-964030REB 98-03 PC A06/MF A01

EPA/541/R-97/017
Superfund Record of Decision (EPA Region 4): Camp LaLeune Military Reservation (US Navy), Operable Unit 7, Sites 1, 28, and 30, Onslow County, NC., October 9, 1996. 98-03 PC A07/MF A02 PR97-964001RFR

EPA/541/R-97/095
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997.
PB97-964019REB 98-03 PC A04/MF A01

EPA/541/R-97/018 PADA17H-97/018
Superfund Record of Decision (EPA Region 4): Escambia
Wood - Pensacola (aka: Escambia Treating Company
Stel), Pensacola, FL., February 12, 1997.
PB37-964002REB 98-03 PC A04/MF A01

EPA/541/R-97/185 Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18, 98-03 PC A04/MF A01

PB97-964021REB EPA/541/R-97/064 PAG-41/N-9/7064
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Albany, GA., September 2, 1997. PB97-964013REB 98-03 PC ADB/MF A02

EPA/541/R-97/063 Prival Intel/IU03
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albarry, GA., September 2, 1997.
PB97-964012REB 96-03 PC A06/MF A01

EPA/541/R-97/188

Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Columbia MS., August 8, 1997.

PB97-964022REB 98-03 PC A04/MF A01

EPA/541/R-97/203 Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, PB97-964024REB 98-03 PC A09/MF A02

FPA/541/R-97/075 Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Clinch River and Poplar Creek Operable Units, Oak Ridge, TN., September 23, 1997.

98-03 PC A05/MF A01 PB97-964017REB EPA/541/R-97/189

Properties of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January 23. 1997. 98-03 PC A04/MF A01 PB97-964023REB

EPA/541/R-97/210 PANOA I/H-9/1/21U
Superfund Record of Decision (EPA Region 4): Oak
Ridge Reservation (USDOE), Operable Unit 14, Oak
Ridge, TN., September 25, 1997.
P897-964U28REB 98-03 PC A06/MF A02 EPA/541/R-97/065
Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Poplar Creek Characterization Area), Oak Ridge, TN., July 10, 1997.
PB97-964014REB 98-03 PC A05/MF A01

EPA/541/R-97/204 PAD417H-97/204
Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Aiken, SC., September 30, 1997.
PB97-964031REB 98-03 PC A07/MF A02

EPA/541/R-97/024 PA/S41/H-9//024 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 4, Aiken, SC., March 98-03 PC A03/MF A01 PB97-964008REB

EPA/541/R-97/025 Superfund Record of Decision (EPA Region 4): Savannah River Ste (USDOE), Operable Unit 13, Aiken, SC., March PB97-964009REB 98-03 PC A05/MF A01

EPA/541/R-97/022
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 14, Aiken, SC., March 27, 1997.

PB97-964006REB 98-03 PC A05/MF A01 EPA/541/R-97/027 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March 27, 1997. PB97-964011REB

98-03 PC A04/MF A01 EPA/541/R-97/205 PA/S417H-9/72S Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 16, Old F Area Seep-age Basin (904-49G), Aiken, SC., May 14, 1997. PB97-964032REB 98-03 PC A05/MF A01

EPA/541/R-97/026
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March 27 1997

PB97-964010REB 98-03 PC A03/MF A01 EPA/541/R-97/207
Superfund Record of Decision (EPA Region 4): Savannah River Sitr (USDOE), Operable Unit 11, Central Shops Burning/Rubble Pit (631-6G) (U), Aiken, SC., May 14,

PB97-964025REB 98-03 PC A04/MF A01 EPA/541/R-97/074
Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL., Sep-

tember 18, 1997. PB97-964016REB 98-03 PC A04/MF A01 FPA/541/R-97/019

Superfund Record of Decision (EPA Region 4): Townsen's Saw Chain Co., Pontiac, SC., December 19, 1996.
PB97-964003REB 98-03 PC A09/MF A02

EPA/541/R-97/117
Superfund Record of Decision (EPA Region 5): Bendix Corp/Allied Automotive, St. Joseph, Ml., September 30, 1007 PB97-964115REB 98-03 PC A06/MF A01

EPA/541/R-97/115
Superfund Record of Decision (EPA Region 5): Fields
Brook Site, Operable Unit 2, Ashtabula, OH., September 29, 1997. PB97-964113REB 98-03 PC A08/MF A02

EPA/541/R-97/116
Superfund Record of Decision (EPA Region 5): Fields
Brook Site, Operable Unit 4, Astabula, OH., June 30, 1997 98-03 PC A08/MF A02 PB97-964114REB

Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, Ml., September 30, 1997. EPA/541/R-97/113 PB97-964111REB 98-03 PC A06/MF A01

FPA/541/R-97/156 Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, WI., March 31, 1997. PB97-964118REB 98-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Marion (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997.

PB97-964109REB 98-03 PC A05/MF An1 EPA/541/R-97/100

EPA/541/R-97/077
Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, Ml., September 30, PB97-964104REB 98-03 PC A06/MF A01

FPA/541/R-97/071 Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997. PB97-964103REB 98-03 PC A05/MF A01

EPA/541/R-97/155 Superfund Record of Decision (EPA Region 5): Roto-Fin-ish Co., Inc., Kalamazoo, Ml., March 31, 1997. PB97-964117REB 98-03 PC A06/MF A01

EPA/541/R-97/154
Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Carterville, IL., February 19, 1997.
PB97-964116REB 98-03 PC A07/MF A02

EPA/541/R-97/114 Superfund Record of Decision (EPA Region 5): Scrap Processing Co., Inc., Medford, WI., September 30, 1997. PB97-964112REB 98-03 PC A05/MF A01

EPA/541/R-97/099 PAUS 417R-97/099
Superfund Record of Decision (EPA Region 5): South
Point Plant Site, South Point, OH., September 26, 1997.
PB97-964108REB 98-03 PC A05/MF A01

EPA/541/R-97/078 Superfund Record of Decision (EPA Region 5): Tippe-cance Sanitary Landfill, Inc., Lafayette, IN., September 30, 1997 PB97-964105REB 98-03 PC A05/MF A01

EPA/541/R-97/098
Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, WI., September 25, PR97-964107RFR 98-03 PC A05/MF A01

EPA/541/R-97/112
Superfund Record of Decision (EPA Region 5): Wright-Patterson Air Force Base, Operable Unit 2, Dayton, ÖH., Ssptember 30, 1997.
PB97-964110REB 98-03 PC A05/MF A01

EPA/541/R-97/118 Superfund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA., March 4, 1997.
PB97-964201REB 98-03 PC A05/MF A01

EPA/541/R-97/125

EPA/541/R-97/125

Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Dallas, TX., April 3, 1997.

98-03

PC A09/MF A02

EPA/541/R-97/123
Superfund Record of Decision (EPA Region 6): Southern Shipbuilding Corp., Operable Unit 2, Slidell, LA., September 15, 1997.
PB97-964203REB 98-03 PC A07/MF A02

EPA/541/R-97/126
Superfund Record of Decision (EPA Region 6): Tar Creek (Ottawa County), Operable Unit 2, Ottawa County, OK., August 27, 1997.
PB97-964206REB 98-03 PC A13/MF A03

EPA/541/R-97/144
Superfund Record of Decision (EPA Region 7): Bee Cee
Manufacturing Co., Malden, MO., September 30, 1997.
PB97-964305REB 98-03 PC A05/MF A01

EPA/541/R-97/030 PA/S41/H-9/7030 of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1996. P897-964301REB 98-03 PC A05/MF A01

EPA/541/R-97/142
Superfund Record of Decision (EPA Region 7): Fort Riley
Pesticide Storage Facility, Operable Unit 2, Junction City,
KS., September 29, 1997. 98-03 PC A05/MF A01 PB97-964303REB

EPA/541/R-97/143
Superfund Record of Decision (EPA Region 7): Nebraska
Ordnance Plant (Former), Operable Unit 2, Mead, NE., PB97-964304REB 98-03 PC A06/MF A01

EPA/541/R-97/145
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02

EPA/541/R-97/111 PA/D41/H-97/1111
Superfund Record of Decision (EPA Region 8): Ellsworth Air Force Base, Operable Unit 11, Ellsworth Air Force Base, SD., April 28, 1997.
PB97-964401REB 98-03 PC A06/MF A01

EPA/541/R-97/194
Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997.
PB97-964404REB 98-03 PC A04/MF A01

EPA/541/R-97/197 PAVD41/H-9//19/
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30, PB97-964407REB 98-03 PC A07/MF A02

EPA/541/R-97/198
Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30, PB97-964408REB 98-03 PC A07/MF A02

FPA/541/R-97/195 Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., February 27, 1997. PB97-964405REB

98-03 PC A04/MF A01 EPA/541/R-97/196 Superfund Record of Decision (EPA Region 8): Rocky June 3, 1997.

PB97-964406REB

98-03

PC A04/MF A01 EPA/541/R-97/127
Superfund Record of Decision (EPA Region 9): Agriculture Street Landfill, Operable Unit 4 and 5, New Orleans, LA, September 2, 1997.
PB97-964207REB 98-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997.

PB97-964503REB 98-03 PC ADSAME And EPA/541/R-97/033

EPA/541/R-97/034
Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January 17, 1997. PB97-964504REB 98-03 PC A04/MF A01

Superland Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Livermore, CA., January 29, 1997.
PB97-984505REB 98-03 PC A08/MF A02

EPA/541/R-97/133

Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September 98-03 PC A08/MF A02

EPA/541/R-97/206 PADA17H-9//2006 Superfund Record of Decision (EPA Region 9): Norton Air Force Base, Operable Unit 3, Site 19 Waste Drum Storage Area No. 1, San Bernardino, CA., June 25, 1997. PB97-964517REB 98-03 PC A05/MF A01

EPA/541/R-97/032 Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, HI., Feb-nary 7, 1997. PB97-964502REB 98-03 PC A07/MF A02

EPA/541/R-97/031
Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, HI., November 8, 1996.
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EPA/541/R-97/137
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Corporate/Performing Organization	University of Wyoming Research Corp., Laramie, WY
(Report or Series Number)	EPA/530/R-93/013A
Title	Engineering and Environmental Aspects of Recycled Materials for Highway Construction
(Sponsor's Report or Series Number)	EPA/530/R-93/013A
NTIS Order Number/Media Code Price Codes	PB94-100443/REB PC A10/MF A03

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Superfund Explanation of Significant Difference for the Record of Decision: Auburn Road Landfill, Londonderry, NH., December 19, 1996.
PB97-963101REB 98-03 PC A06/MF A01

EPA/541/R-97/004 Superfund Explanation of Significant Difference for the Record of Decision: PSC Resources, Palmer, MA., Noember 26 1996

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Superfund Explanation of Significant Difference for the Record of Decision: Groveland Wells (No. 1 and 2 Site), (O.U. 1), (Management of Migration Operable Unit), Groveland, MA., November 11, 1996.
PB97-963103REB 98-03 PC A03/MF A01

FPA/541/R-97/006 PA/S41/R-97/006
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PB97-963104REB 98-03 PC A03/MF A01

EPA/541/R-97/007 PADA11H-970007
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P897-963105REB 98-03 PC A03/MF A01

EPA/541/R-97/008 Superfund Explanation of Significant Difference for the Record of Decision: Savage Municipal Water Supply, (OK Tool Source Area) (Operable Unit 1), Milford, NH., December 19, 1996.
PB97-963106REB 98-03 PC A03/MF A01

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EPA/541/R-97/010 Superfund Record of Decision (EPA Region 2): Platts-burgh Air Force Base (Former Landfill LF-021), Platts-burgh, NY., March 25, 1997. PB97-963602REB 98-03 PC A06/MF A01

EPA/541/R-97/011 Superfund Record of Decision (EPA Region 2): Platts-burgh Air Force Base, (Former Landfill LF-024), Platts-burgh, NY., March 25, 1997. PB97-963803REB 98-03 PC A07/MF A02

EPA/541/R-97/012 PAV341/H-9//U12
Superfund Record of Decision (EPA Region 3): Avco Lycoming/(Williamsport Division), Williamsport, PA., December 30, 1996.
PB97-963901REB 98-03 PC A03/MF A01

EPA/541/R-97/013 PADS ITH-97/013
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Croyden TCE, Croyden, PA, December 31, 1996.
PB97-963107REB 98-03 PC A03/MF A01

EPA/541/R-97/014 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Brown's Battery Breaking, Shoemakersville, PA., December 1996. PB97-963108REB 98-03 PC A02/MF A01

EPA/541/R-97/015 PADS 17H-97/015
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Tonolli Corp., Nesquehoning, PA., January 7, 1997.
PB97-963109/REB PC A02/MF A01

EPA/541/R-97/016 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Industrial Lane, Wil-liams Township, PA., December 5, 1996. PB97-963110REB 98-03 PC A03/MF A01

EPA/541/R-97/017 Superfund Record of Decision (EPA Region 4): Camp LaJeune Military Reservation (US Navy), Operable Unit 7, Sites 1, 28, and 30, Onslow County, NC., October 9, 1996. 98-03 PC A07/MF A02 PB97-964001REB

EPA/541/R-97/018 Superfund Record of Decision (EPA Region 4): Escambia Wood - Pensacola (aka: Escambia Treating Company Site), Pensacola, FL, February 12, 1997. PB97-964002REB 98-03 PC A04/MF A01

EPA/541/R-97/019 Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Co., Pontiac, SC., December 19, 1996.
PB97-964003REB 98-03 PC A09/MF A02 PB97-964003REB

EPA/541/R-97/020 Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 6, (Area B) Study Areas 2, 10, 16, 17, and 22, Childersburg, AL., March 27, PB97-964004REB 98-03 PC A05/MF A01

EPA/541/R-97/021 Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 5, Childersburg, AL, March 27, 1997.

PB97-964005REB 98-03 PC A07/MF A02

EPA/541/R-97/022 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 14, Aiken, SC., March 27, 1997. PB97-964006REB 98-03 PC A05/MF A01

EPA/541/R-97/023 Pr/041/H-9//023
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River Site (USDOE), Operable Unit 5, Aiken, SC., March
27, 1997.
PB97-964007REB 98-03 PC A03/MF A01

EPA/541/R-97/024 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 4, Aiken, SC., March

PB97-964008REB 98-03 PC A03/MF A01 EPA/541/R-97/025

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Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March PB97-964010REB 98-03 PC A03/MF A01

EPA/541/R-97/027 Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March 27, 1997.

PB97-964011REB 98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemical Company Site, (Dover Plant), Dover, OH., March 31, 1997. EPA/541/R-97/028 March 31, 1997. PB97-964101REB 98-04 PC A08/MF A02

EPA/541/R-97/029 Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Ml., February 5, 1997. PB97-964102REB 98-04 PC A06/MF A01

EPA/541/R-97/030 PA/S41/H-9//USA Superfund Record of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1996. PB97-964301REB 98-03 PC A05/MF A01

EPA/541/R-97/031

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, HI., November 8, 1996. PB97-964501REB 98-03 PC A09/MF A02

EPA/541/R-97/032 Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, HI., Feb-nary 7, 1997. PB97-964502REB 98-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997.
PB97-964503REB 98-03 PC A05/MF A01 EPA/541/R-97/033

EPA/541/R-97/034 PAUS4 17H-97/U34 Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January 17 1997

PB97-964504REB 98-03 PC A04/MF A01 EPA/541/R-97/035

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): United Heckathom Company, Richmond, CA., November 29, 1996. PB97-963111REB 98-04 PC A02/MF A01 EPA/541/R-97/036

FAVSA I/H-9//UJO Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE) (Treatment Facilities A and B), Livermore, CA., April 16, 1997. PB97-963112REB 98-03 PC A03/MF A01

EPA/541/R-97/037 PAVA ITHE JULY SUPPLY AND A SUPPLY SU

FPA/541/R-97/038 PA/S41/R-97/038
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE) (Metal Discharge Limits), Livermore, CA., April 15, 1997.
PB97-963114REB 98-03 PC A03/MF A01

EPA/541/R-97/039 PADS 1/H-9/7039

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Apache Powder Co., St. David, AZ., April 16, 1997.

98-03 PC A03/MF A01

EPA/541/R-97/040 PA/541/R-97/040
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Tucson International Airport Area, (Areas A and B Groundwater Operable Unit), Tucson, AZ., February 27, 1997.
PB97-963116REB 98-03 PC A03/MF A01

EPA/541/R-97/041 PA/S41/H-9/7/041
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Selma Treating Co., Selma, CA., April 18, 1997.
P897-983117REB 98-04 PC A08/MF A02

EPA/541/R-97/042 PA/S41/H-9/7042 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Westinghouse Elec-tric Cop., (Sunnyvale), Sunnyvale, CA, March 14, 1997. P897-963118REB 98-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Livermore, CA., January 29, 1997.

PB97-964505REB 98-03 PC Ang/MAE AM EPA/541/R-97/043

EPA/541/R-97/044 Superfund Record of Decision (EPA Region 10): Hanford Site - 100 Area (USDOE) 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units, Benton County, WA., April 4, 1997-PB97-963127REB 98-04 PC A04/MF A01 EPA/541/R-97/045

PA/S41/H-9/1/043 Superfund Record of Decision (EPA Region 10): Harbor Island (Lead), The Shipyard Sediment Operable Unit, Se-attle, WA., November 27, 1996. PB97-964601REB 98-04 PC A06/MF A01

FPA/541/R-97/046 Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit A) (aka: Bremerton Naval Complex), Bremerton, WA., January 24, PB97-964602REB 98-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit NSC) (aka: Bremerton Naval Complex), Bremerton, WA., December 13, 1996. EPA/541/R-97/047 PB97-964603REB 98-04 PC A07/MF A02

EPA/541/R-97/048 Superfund Record of Decision (EPA Region 1D): Hanford 200 Area (USDOE), (200-UP-1 Operable Unit), Benton County, WA, February 11, 1997. P897-964604REB 98-04 PC A06/MF A01

EPA/541/R-97/049 Superfund Record of Decision (EPA Region 10): Mon-santo Chemical Co. (Soda Springs), Soda Springs, ID., April 30, 1997. 98-04 PC A07/MF A02 PB97-964605REB

EPA/541/R-97/050 PA/S41/H-9/7050 Superfund Record of Decision (EPA Region 10): Elmen-dorf Air Force Base, Operable Unit 3, Greater Anchorage Borough, AK., December 5, 1996. PB97-964606REB 98-04 PC A05/MF A01

EPA/541/R-97/051 Superfund Record of Decision (EPA Region 10): Elmendorf Air Force Base, Operable Unit 6 and Source Area SS 19, Greater Anchorage Borough, AK, December 4, 98-04 PC A12/MF A03 PB97-964607REB

EPA/541/R-97/053 PA/S41/H-9/7/053
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Toftdahl Drums, Brush Prairie, WA., June 17, 1997.
P897-963119REB 98-04 PC A02/MF A01

Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 1, Fairbanks North Star Borough, AK., June 27, 1997.
PB97-964608REB 98-04 PC A09/MF A02 EPA/541/R-97/054

EPA/541/R-97/055 Superfund Record of Decision (EPA Region 2): Jones Sanitation, Hyde Park, NY., March 31, 1997.
PB97-963804REB 98-03 PC A08/MF A02

EPA/541/R-97/056 Superfund Record of Decision (EPA Region 2): Robintech, Inc., National Pipe Compnay, Town of Vestal, NY., July 25, 1997. PB97-963805REB 98-03 PC A08/MF A02

EPA/541/R-97/057
Superfund record of Decision (EPA Region 3): Crossley Farm, (Hereford Groundwater), Hereford, PA., June 30, 1997. PB97-963902RFB 98-03 PC A04/MF A01

EPA/541/R-97/058 Superfund Record of Decision (EPA Region 3): Berks Landfill, Spring Townshop, PA., July 22, 1997. PB97-963903REB 98-04 PC A08/MF A02

FPA/541/R-97/059 Proparint-97/1009
Superfund Explanation of Significant Difference of the Record of Decision (EPA Region 10): Commencement Bay, Near Shore/Tide Flats, Operable Unit 01 - Sediments and Operable Unit 05 - Source, Pierce County, WA., July 28, 1997.
PB97-963120REB 98-04 PC A07/MF A02

EPA/541/R-97/060 Superfund Record of Decision Amendment (EPA Region 10): Gould, Inc., Soils Operable Unit, Portland, OR., June 3, 1997. 3, 1997. PB97-963121REB 98-04 PC A06/MF A01

EPA/541/R-97/061 Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 2, Fairbanks North Star Borough, AK., March 31, 1997.
PB97-964609REB 98-04 PC A10/MF A03

EPA/541/R-97/062 Superfund Record of Decision Amendment (EPA Region 3): Recticon/Allied Steel Corp., East Coventry Twp., PA., August 29, 1997.
PB97-963122REB 98-03 PC A03/MF A01

EPA/541/R-97/063 Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albany, GA., September 2, 1997. PB97-964012REB 98-03 PC A06/MF A01

FPA/541/R-97/064 PA/541/R-97/064 Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Albany, GA., September 2, 1997. PB97-964013REB 98-03 PC A08/MF A02

FPA/541/R-97/065

PAVS-1/H-9/7/05 Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Poplar Creek Characterization Area), Oak Ridge, TN., July 10, 1997. PB97-964014REB 98-03 PC A05/MF A01

EPA/541/R-97/066

PADA1/N-9//U66 Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) (Studge Removal from the Gunite and Associated Tanks Operable Unit, Waste Area Grouping 1), Oak Ridge, TN., September 2, 1997. PB97-964015REB 98-03 PC A04/MF A01

EPA/541/R-97/067

Superfund Record of Decision Amendment (EPA Region 5): Clare Water Supply, Clare, MI., May 15, 1997. PB97-963123REB 98-03 PC A03/MF A01

EPA/541/R-97/068 Superfund Record of Decision Amendment (EPA Region 5): Arcanum Iron and Metal, Darke County, OH., June 18, 1997.

98-03 PC A08/MF A02 PB97-963124REB

EPA/541/R-97/069

Superfund Record of Decision Amendment (EPA Region 5): United Scap Lead Co., Inc., Troy OH., June 27, 1997. PB97-963125REB 98-03 PC AD9/MF A02

FPA/541/R-97/070 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Fields Brook (Sedi-ment Operable Unit), Ashtabula, OH., August 15, 1997. PB97-963126REB 98-03 PC A04/MF A01

FPA/541/R-97/071

PA/041/H-9//UT Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997. PB97-964103REB 98-03 PC A05/MF A01

EPA/541/R-97/072

Superfund Record of Decision (EPA Region 10): East Multinomah County Groundwater Contamination, Operable Unit 1, Multinomah County, OR., December 31, 1006 PB97-964610REB 98-04 PC A08/MF A02

EPA/541/R-97/073

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Superfund Record of Decision (EPA Region 7): Cherokee County (Baster Springs and Treece Subsides), Operable Unit 3/4, Cherokee County, KS., August 20, 1997. PB97-964302REB 98-03 PC A12/MF A03

EPA/541/R-97/074 Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL., September 18, 1997. PB97-964016REB 98-03 PC A04/MF A01

EPA/541/R-97/075 PADAI (N=97013 Superfund Record of Decision (EPA Region 4): Oak Rudge Reservation (USDOE), Clinch River and Poplar Creek Operable Units, Oak Ridge, TN., September 23, Creek 1997. PB97-964017REB GRUNG PC ANSAME AND

EPA/541/R-97/076

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Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) (Waste Area Group 17), Paducah, KY., September 29, 1997. PC A04/MF A01 96-03 PC A04/MF A01

EPA/541/R-97/077 Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, Mt., September 30, 1997 98-03 PC A06/MF A01 PB97-964104RFB

FPA/541/R-97/078 Superfund Record of Decision (EPA Region 5): Tippe-cance Sanitary Landfill, Inc., Lafayette, IN., September 30, 1997.

98-03 PC A05/MF A01 PR97-964105RFB

EPA/541/R-97/079 PA/S41/N-97/079
PA/S41/N-97/079
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 20 (Site 28 Soil and Groundwater), Lakehurst, N.J., July 7, 1997. PB97-98306/REB 96-03 PC A05/MF A01

EPA/541/R-97/080 JPA/34/JP4/JUSU
Superfund Record of Decision (EPA Region 2): Navel Air Engineering Center Operable Unit 21 (Areas A and B Groundwater), Lakehurst, NJ., July 7, 1997. PB97-963807REB PC A05AMF A01

EPA/541/R-97/081 PAD-417H-91/US1
Superfund Record of Decision (EPA Region 2): Naval Air
Engineering Center Operable Unit 24 (Area K Ground-water), Lakehurst, NJ., July 7, 1997.
PB97-963008REB 98-03 PC A04/MF A01

EPA/541/R-97/082 PAUSI INVESTIGATE

Record of Decision (EPA Region 10): Teledyne Wah
Chang, Albany, OR., October 8, 1996.
PB97-963128REB 96-04 PC A03/MF A01

FPA/541/R-97/083 PA/541/R-97/083 Superfund Record of Decision (EPA Region 2): Federal Aviation Administration Technical Center, (Areas A, J, and N), Altantic County, N.J., July 21, 1997. PB97-96309REB 96-03 PC A05/MF A01 EPA/541/R-97/084 PA/541/ft-97/084 Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (site A), Operable Unit 1, Cotts Neck, NJ., September 25, 1997. PB97-963810REB 98-03 PC A06/MF A02

EPA/541/R-97/085

PA/S41/rt-9//085 Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 2, Cotts Neck, NJ., September 25, 1997. PB97-963811REB 98-03 PC A06/MF A01

EPA/541/R-97/086 PASS-1/F-97/USD Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Volney Municipal Landfill, Town of Volney, NY., August 7, 1997. PB97-963129REB 98-04 PC A03/MF A01

EPA/541/R-97/087 Superfund Record of Decision (EPA Region 3): Jacks Creek/Sitkin Smelting and Refinery Inc., Site, Village of Maitland, PA., September 30, 1997. P897-963904REB 98-03 PC A06/MF A01

EPA/541/R-97/088
Superfund Record of Decision (EPA Region 3): North
Penn - Area 12, Worcester Township, PA., September 30, 1997. PB97-963905REB 98-03 PC A09/MF A02

EPA/541/R-97/089 Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy), Operable Unit 1, Mineral, WV., February 12, 1997. PB97-963906REB 98-03 PC A05/MF A01

EPA/541/R-97/090 PAOSITINES/TOUR Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Beach Point Test Site, Aberdeen Proving Ground, MD., September 24, 1997. PB97-963907REB 98-03 PC AD5/MF A01

EPA/541/R-97/091
Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Watson Creek Sediment, O-Field Operable Unit, Aberdeen Proving Ground, MD., September 23, 1997.
PB97-963908REB 98-03 PC A05/MF A01

EPA/541/R-97/092 Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Michaelsville Landfill), Aberdeen Proving Ground, MD., September 23, 1997.
P897-963909REB 98-03 PC A04/MF A01

EPA/541/R-97/093 PA/S41/H-9//U93 Superfund Record of Decision (EPA Region 3): Marine Corps Combat Development Command (Site 4), Operable Unit 4, Quantoo, VA., September 30, 1997. PB97-963910REB 98-03 PC A05/MF A01

EPA/541/R-97/094 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Bendix Flight Systems Division, South Montrose, PA, November 22, 1996. PB97-963130REB PB97-963130REB

EPA/541/R-97/095
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997.
PB97-964019REB 98-03 PC A04/MF A01

EPA/541/R-97/096 Superfund Record of Decision (EPA Region 3): Tobyhanna Army Depot, Operable Unit 1, Tobyhanna, PA, September 30, 1997. PB97-963911REB 98-03 PC A07/MF A02

EPA/541/R-97/097 Armory Landfill, Tomah, WI., September 23, 1997.
PB97-964106REB 98-03 PC A05/MF A01

EPA/541/R-97/098 Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, WI., September 25, 98-03 PC A05/MF A01 PB97-964107REB

EPA/541/R-97/099 PROPARTMENT AND THE PROPERTY OF THE PROPERTY O

EPA/541/R-97/100 Superfund Record of Decision (EPA Region 5): Marion (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997.
PB97-964109REB 98-03 PC A05/MF A01

EPA/541/R-97/101 PA/S41/H-9/7/10 Superfund Record of Decision Amendment (EPA Region 10): Hanford Site - 200 Area (USDOE), Benton County, WA, September 25, 1997. PB97-963136REB 98-04 PC A04/MF A01

EPA/541/R-97/102 PA/341/N+97/102
Superfund Record of Decison (EPA Region 1): Davis
Glocester-Smithfield Regional (GSR) Landfill Site,
Glocester/Smithfield, RI., September 29, 1997.
PB97-963703REB 98-03 PC A10/MF A02

EPA/541/R-97/103 Superfund Record of Decison (EPA Region 2): Global Sanitary Landfill Operable Unit 2, Old Bridge Township, NJ., September 29, 1997.
PB97-963812REB 98-03 PC A07/MF A02

FPA/541/R-97/104 Superfund Record of Decision (EPA Region 2): Higgins Disposal Site Operable Unit 1, Kingston, NJ., September PB97-963813REB 98-03 PC A10/MF A02

EPA/541/R-97/105 PROGRIPT-9/1/105
Superfund Record of Decision (EPA Region 2): Janssen Inc., Operable Unit 1, Gurabo, PR., September 30, 1997.
PB97-963814REB 98-03 PC A06/MF A01

EPA/541/R-97/106 Superfund Record of Decison Amendment (EPA Region 2): Preferred Plating Corp., Farmingdale, NY., September 30, 1997.

PB97-963131REB 98-03 PC A08/MF A02

EPA/541/R-97/107

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Curcio Scrap Metal Inc., Operable Unit 2, Saddle Brook, NJ., September 30, 1997.

PB97-963815REB

98-03 PC A06/MF A01

EPA/541/R-97/108 Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Operable Unit 4, Oswego, NY., September 30, 1997. 98-03 PC A06/MF A01

EPA/541/R-97/109 Superfund Record of Decision (EPA Region 2): Richardson Hill Road Landfill/Pond, Sidney Center, NY., September 30. 1997

PB97-963817REB 98-03 PC A07/MF A02

FPA/541/R-97/110

PAD41/R-9//110
Superfund Record of Decision Amendment (EPA Region 4): Homestead AFB, FL., August 18, 1997.
PB97-963132REB 98-03 PC AD4/MF A01

EPA/541/R-97/111

Superfund Record of Decision (EPA Region 8): Ellsworth Air Force Base, Operable Unit 11, Ellsworth Air Force Base, SD., April 28, 1997.
PB97-964401REB 98-03 PC A06/MF A01

EPA/541/R-97/112 Superfund Record of Decision (EPA Region 5): Wright-Patterson Air Force Base, Operable Unit 2, Dayton, OH., Ssptember 30, 1997. 98-03 PC A05/MF A01 PR97-964110RFB

EPA/541/R-97/113 Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, Ml., September 30, 1997. PB97-964111REB 98-03 PC A06/MF A01

EPA/541/R-97/114 PROSTINEST/TILS
Superfund Record of Decision (EPA Region 5): Scrap
Processing Co., Inc., Medford, WI., September 30, 1997.
PB97-964112REB 98-03 PC A05/MF A01

EPA/541/R-97/115 Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 2, Ashtabula, OH., September 29, 1997. 98-03 PC A08/MF A02 PR97-964113REB

EPA/541/R-97/116 Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 4, Astabula, OH., June 30, 1997. 98-03 PC A08/MF A02

PB97-964114REB FPA/541/R-97/117

PA/541/H-97/117
Superfund Record of Decision (EPA Region 5): Bendix
Corp/Allied Automotive, St. Joseph, Ml., September 30, 1997.
PB97-964115REB 98-03 PC A06/MF A01

FPA/541/R-97/118 Superfund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA., March 4, 1997. PB97-964201REB 98-03 PC A05/MF A01

EPA/541/R-97/119 Superfund Record of Decision (EPA Region 6): National Zinc Corp., Operable Unit 2, Bartlesville, OK., October 2. 1997 PB97-964202REB 98-03 PC A04/MF A01

EPA/541/R-97/120 Superfund Record of Decision Amendment (EPA Region 6): Bailey Waste Disposal, Bridge City, TX., December 16, 1996. 98-03 PC A04/MF A01 PB97-963133REB

EPA/541/R-97/121 Superfund Record of Decision Amendment (EPA Region 6): South Cavalcade Street Site, Houston, TX., June 27.

PR97-963134REB 98-04 PC AC7/MF A02

EPA/541/R-97/122

PACATIN-97/122
Superfund Record of Decision Amendment (EPA Region 6): Bio Refining Inc., Friendship, TX., July 2, 1997.
PB97-963135REB 98-03 PC A04/MF A01 EPA/541/R-97/123

Superfund Record of Decision (EPA Region 6): Southern Shipbuilding Corp., Operable Unit 2, Slidell, LA., September 15, 1997. ber 15, 1997. PB97-964203REB 98-03 PC A07/MF A02

EPA/541/R-97/124 PADAILITE STILLS
Superfund Record of Decision (EPA Region 6): RSR
Corp., Operable Unit 3, Dallas, TX., September 30, 1997.
PB97-964204REB 98-04 PC A12/MF A03

EPA/541/R-97/125 Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Dallas, TX., April 3, 1997.
PB97-964205REB 98-03 PC A09/MF A02

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FPA/541/R-97/126 PNOS 1/R-97/126 Superfund Record of Decision (EPA Region 6): Tar Creek (Ottawa County), Operable Unit 2, Ottawa County, OK., August 27, 1997. PS97-964206REB 98-03 PC A13/MF A03

EPA/541/R-97/127 Superfund Record of Decision (EPA Region 9): Agri-culture Street Landfill, Operable Unit 4 and 5, New Orle-ans, LA., September 2, 1997. PB97-964207REB 98-03 PC A12/MF A03

EPA/541/R-97/128 Superfund Record of Decision (EPA Region 9): Western Pacific Railroad Company, Oroville, CA., September 30,

PB97-964506REB 98-03 PC A05/MF A01

EPA/541/R-97/129

Superfund Record of Decision (EPA Region 9): Moffett Naval Air Station, Operable Unit 1, Sunnyvale, CA., August 14, 1997. PB97-964507REB 98-04 PC A11/MF A03

FPA/541/R-97/130 PROST/ITES/TISU Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 3 and 4, Barstow, CA., June 3, 1997. PB97-96450BREB 98-04 PC A18/MF A04

FPA/541/R-97/131 Superfund Record of Decision (EPA Region 9): Del Amo Facility Waste Pits Operable Unit, Los Angeles, CA., September 5, 1997. P897-964509REB 98-04 PC A15/MF A03

EPA/541/R-97/132

Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30, 1997. PB97-964510REB 98-04 PC A07/MF A02 EPA/541/R-97/133

Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September 26 1997 PB97-964511REB 98-03 PC A08/MF A02

EPA/541/R-97/134 PR034/TH-97/134 Superfund Record of Decision (EPA Region 9): Castle Air Force Base, Merced, CA., May 21, 1997. PB97-964512REB 98-04 PC A12/MF A03

EPA/541/R-97/135 ENDATING THE STATE OF THE STATE

FPA/541/R-97/136 Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Unit 2A (Site 24-VOC Source Area Vadose Zone), El Toro, CA., September 29,

98-04 PC A11/MF A03 PB97-964514REB

EPA/541/R-97/137

PRADATINE 9/113/ Superfund Record of Decision (EPA Region 9): Tucson International Airport Area (Volume 1 and 2), Tucson, AZ., September 30, 1997. PB97-964515REB 98-03 PC A14/MF A03

EPA/541/R-97/138 PAD41/H-9//138
Superfund Record of Decision (EPA Region 2): Naval Security Group ACtivity, Operable Unit 1 (Sites 2 and 4), Sabana Seca, PR., September 30, 1997.
PB97-963818REB 98-03 PC A05/MF A01

EPA/541/R-97/139 PADA1/H-9/7139 Superfund Record of Decision (EPA Region 2): Naval Se-curity Group Activity, Operable Unit 3 (Sites 1 and 3), Sabana Seca, PR., September 30, 1997. PB97-963819REB 98-03 PC A05/MF A01

EPA/541/R-97/140 PADA INTEST 1400 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): DeRewal Chemical Co., Kingwood Township. NJ., June 12, 1997. PB37-963137REB 98-03 PC A02/MF A01

FPA/541/R-97/141 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Pepe Field, Boonton, NJ., July 25, 1997. PB97-963138REB 98-03 PC A03/MF A01

EPA/541/R-97/142 PAD4/1R-9/1/142
Superfund Record of Decision (EPA Region 7): Fort Riley
Pesticide Storage Facility, Operable Unit 2, Junction City,
KS., September 29, 1997.
PB97-964303REB 98-03 PC A05/MF A01

EPA/541/R-97/143 Superfund Record of Decision (EPA Region 7): Nebraska Ordnance Plant (Former), Operable Unit 2, Mead, NE., Andi 7 1997 PB97-964304REB 98-03 PC A06/MF A01

FPA/541/R-07/144 Superfund Record of Decision (EPA Region 7): Bee Cee Manufacturing Co., Malden, MO., September 30, 1997. PB97-964305REB 98-03 PC A05/MF A01

EPA/541/R-97/145 Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02

EPA/541/R-97/146 PROSITE-5/1149
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Libby Groundwater Contamination, Libby, MT., January 22, 1997. PB97-963139REB 98-03 PC A03/MF A01 EPA/541/R-97/147 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Comhusker Army Ammunition Plant, Hall County, NE., February 7, 1997. PB97-963140REB 98-03 PC A03/MF A01

EPA/541/R-97/148 FAV34 (ICH-97/146) Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Revere Chemical Co., Nockamixon Township, P.A., March 25, 1997. PB97-963141REB 98-03 PC A02/MF A01

EPA/541/R-97/149 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Mill Creek Dump, Erie, PA., April 30, 1997.
PB97-963142REB 98-03 PC A02/MF A01

EPA/541/R-97/150 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Brodhead Creek, Stroudsburg, PA., September 30, 1997. PB97-963143REB 98-03 PC A02/MF A01

EPA/541/R-97/151 Record of Decison (EPA Region 3): Paoli Rail Yard, Paoli, PA, April 2, 1997.
PB97-963144REB 98-03 PC A02/MF A01

EPA/541/R-97/152 PA/04/11F49/T/12 Superfund Explanation of Significant Defference for the Record of Decision (EPA Region 6): PAB Oil and Chemi-cal Service Inc., Abbeville, LA., March 12, 1997. PB97-963145REB 98-03 PC A03/MF A01

EPA/541/R-97/153 RADAIN PRINTS // Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Crystal Chemical Co., Houston, TX., March 19, 1997.

PB97-963146REB 98-03 PC A04/MF A01

EPA/541/R-97/154 PA/Sat/1F-9/7/13 Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Carterville, IL., February 19, 1997. P897-964116REB 98-03 PC A07/MF A02

EPA/541/R-97/155 Superfund Record of Decision (EPA Region 5): Roto-Fin-ish Co., Inc., Kalamazoo, Ml., March 31, 1997. 98-03 PC A06/MF A01

EPA/541/R-97/156 Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, Wt., March 31, 1997. PB97-964118REB 98-03 PC A05/MF A01

FPA/541/R-97/157 PACA1/H-9/7/13 Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Site 09, North Kingstown, RI., September 29, 1997. PB97-963704REB 98-03 PC A15/MF A03

EPA/541/R-97/158 PADS1/H-9//108 Superfund Record of Decison (EPA Region 1): Fort Devens (Areas of Contamination 43G and 43J), Fort Devens, MA., October 17, 1996. P897-963/705REB 98-03 PC A10/MF A02

EPA/541/R-97/159 PADA 1/FF9/109 Superfund Record of Decison (EPA Region 1): Fort Devens (Area of Contamination 63AX), Fort Devens, MA., September 29, 1997. PB97-963/706REB 98-03 PC A06/MF A01

EPA/541/R-97/160 Superfund Record of Decision (EPA Region 1): Fort Devens-Sudbury Training Annex (Areas of Contamination A4, A7, and A9), Middlesex County, MA., September 30, PB97-963707REB 98-04 PC A08/MF A02

FPA/541/R-97/161 Superfund Record of Decision (EPA Region 1): Gallup's Quarry Superfund Site, Plainfield, CT., September 30, 997 PB97-963708REB 98-04 PC A09/MF A02

EPA/541/R-97/162 Superfund Record of Decison (EPA Region 1): New Lon-don Submarine Base, New London, CT., September 18, 1997 PB97-963709REB 98-03 PC A03/MF A01

EPA/541/R-97/163 PA/341/H-9//163
Superfund Record of Decison (EPA Region 1): Pease Air Force Base Brooks/Ditches Operable Unit, Portsmouth/ Newington, NH., September 30, 1997. PB97-963710REB PC A13/MF A03

EPA/541/R-97/164 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 1): Kellog-Deering Well Field, Norwalk, CT., March 31, 1997.
PB97-963147REB 98-03 PC A03/MF A01

EPA/541/R-97/165 Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 1): Salem Acres, Salem, MA., April 11, 1997.
PB97-963148REB 98-03 PC A02/MF A01

EPA/541/R-97/166 Superfund Record of Decision (EPA Region 2): Grand Street Mercury Site, Hoboken, NJ., September 30, 1997. PB97-963820REB 98-04 PC A99/MF A06

EPA/541/R-97/167 Superfund Record of Decison Amendment (EPA Region 2): Haviland Complex Town of Hyde Park, NY., August 1, PB97-963149REB 98-03 PC A07/MF A02

EPA/541/R-97/168 FAVAIRHS/TIOS
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Powell Road Landfill, Dayton OH., January 23, 1997.
P897-963150REB 98-03 PC A03/MF A01

EPA/541/R-97/169 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Powell Road Landfill, Dayton, OH., August 13, 1997. PB97-963151REB 98-03 PC A03/MF A01

EPA/541/R-97/170 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Janesville Ash Beds and Janesville Old Landfill, Janesville, WI., September 17, 1997. PB97-963152REB 98-03 PC A03/MF A01

EPA/541/R-97/171 -74/54/1/F9/71/1 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Moss-American (Kerr-McGee Oil CO.), Milwaukee, WI., April 29, 1997. PB97-963153REB 98-03 PC A03/MF A01

EPA/541/R-97/172 Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): City Disposal Corp. Landfill, Dunn, WI., June 11, 1997.
P897-963154REB 98-03 PC A02/MF A01

EPA/541/R-97/173 Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 4, 1997.
PB97-963155REB 98-03 PC A03/MF A01

EPA/541/R-97/174 PADAT/RE97/1/4 Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory, (USNavy), Operable Unit 3, Mineral, WV., May 29, 1997. PB97-963912REB 98-03 PC A06/MF A01

EPA/541/R-97/175 Force Base (LF 13), Dover, DE., September 30, 1997. PB97-963913REB 98-03 PC A05/MF A01

EPA/541/R-97/176
Superfund Record of Decision (EPA Region 3): Dover Air Force Base (WP 14 and LF 15), Dover, DE., September 30 1997 PB97-963914REB 98-03 PC A05/MF A01

EPA/541/R-97/177 PAD34/IF-97/1// Superfund Record of Decision (EPA Region 3): Dover Air Force Base (FT 03), Dover, DE., September 30, 1997. PB97-963915REB PC A05/MF A01

EPA/541/R-97/178 Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, War-minster Township, PA., September 30, 1997. PB97-963916REB 98-04 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 2, Dahlgren, VA., September 29, 1997.
PB97-963917REB 98-03 PC A05/MF A01 EPA/541/R-97/179

FPA/541/R-97/180 Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 12, Dahlgre, VA., September 30, 1997. PB97-963918REB 98-03 PC A05/MF A01

EPA/541/R-97/181 PA/541/H-9/7181 Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Site 12, Operable Units 3, 4, and 5, Yorktown, VA., April 16, 1997. PB97-963919REB 98-03 PC A10/MF A03

Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., September 16, 1997.
PB97-964020REB 98-03 PC A06/MF A02 EPA/541/R-97/182

EPA/541/R-97/183 Superfund Record of Decision Amendment (EPA Region 4): Arlington Blending and Packaging, Arlington, TN., July 24, 1997.

PB97-963156REB 98-04 PC A08/MF A02

EPA/541/R-97/184 Superfund Record of Decision Amendment (EPA Rgion 4): Coleman-Evand Wood Preserving Co., Whitehouse, FL, September 25, 1997.
PB97-963157REB 98-04 PC A06/MF A01

EPA/541/R-97/185 PA/54/1/F9/1/85 Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18, PB97-964021REB 98-03 PC A04/MF A01

EPA/541/R-97/186 Superfund Record of Decision Amendment (EPA Region 4): Marzone Inc./Chevron Chemical Company, Tiffon, GA, June 18, 1997.

98-03 PC A04/MF A01 PB97-963158REB EPA/541/R-97/187 Superfund Record of Decision Amendment (EPA Region

Munisport Landfill, North Miami, FL., September 5, PB97-963159REB 98-04 PC A05/MF A01°

EPA/541/R-97/188 PA/541/H-97/188
Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Columbia MS., August 8, 1997.
PB97-964022REB 98-03 PC A04/MF A01

EPA/541/R-97/189 Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January 98-03 PC A04/MF A01 PR97-964023REB

EPA/541/R-97/191
Superfund Record of Decision (EPA Region 9): Camp Pendleton Marine Coprs Base, Operable Unit 2, San Diego, CA, September 30, 1997.
PB97-964516REB 98-04 PC A15/MF A03

EPA/541/R-97/192 Superfund Record of Decision (EPA Region 2): Vega Alta Public Supply Wells, Operable Unit 2, Vega Alta PR., September 30, 1997. PB97-963821REB 98-03 PC A12/MF A03

EPA/541/R-97/193 Superfund Record of Decision (EPA Region 8): F E War-ren Air Force Base, Operable Unit 8, Cgehyenne, WY., November 21, 1997. PB97-964403REB 98-04 PC AD4/MF A01

EPA/541/R-97/194 Superfund Record of Decision (EPA Region 8): F E War-ren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997. PB97-964404REB 98-03 PC A04/MF A01

EPA/541/R-97/195 Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., February 27, 1997. PB97-964405REB 98-03 PC A04/MF A01

EPA/541/R-97/196 Superfund Record of Decision (EPA Region 8): Rocky Flats Pant (USDOE), Operable Unit 3, Golden, CO., June 3, 1997. PB97-964406REB 98-03 PC A04/MF A01

EPA/541/R-97/197 Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30, PR97-964407REB 98-03 PC A07/MF A02

EPA/541/R-97/198
Superlund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30,

PB97-964408REB 98-03 PC A07/MF A02 FPA/541/R-97/199

Superfund Record of Decision (EPA Region 10): East Multnomah Courty Ground Water Contamination, Operable Unit 2, Multnomah Courty, OR., December 31, 98-04 PC A07/MF A02 PB97-964611REB

FPA/541/R-97/200 Superfund Record of Decision (EPA Region 10): Boomsnub/Airco Site-Wide Ground Water Operable Unit, Vancouver, WA., September 29, 1997. PB97-964612REB 98-04 PC A09/MF A02

EPA/541/R-97/201 PAUS-119-9/7201
Superfund Record of Decision (EPA Region 10): Old Nervy Dump Manchester Laboratory (USEPA/NOAA), Menchester, WA., September 30, 1997. PC A07/MF A02 PB97-864613REB PC A07/MF A02

EPA/541/R-97/202 PAGE INVESTIGATION OF DECISION (EPA Region 10): Fort Richardson (USArmy), Operable Units A and B, Anchorage, AK, September 15, 1997. age, AK., Septemb PB97-964614REB 98-04 PC A09/MF A02

EPA/541/R-97/203 Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, 98-03 PC A09/MF A02 PR97-964024REB

EPA/541/R-97/204 PAD-41/R-97/Z04 Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Alixen, SC., September 30, 1997. PB97-964031REB 98-03 PC A07/MF A02

EPA/541/R-97/205 FRUSH INTERFECT.

Superfund Record of Decision (EPA Region 4): Savennah
Fiver Sae (USDOE) Operable Unit 16, Old F Area Seep-age Basin (904-49G), Alten, SC., May 14, 1997.

PB07-864032FEB PC A0S/MF A01

EPA/54/IR-97/206
Superfund Record of Decision (EPA Region 9): Norton Air Force Base, Operable Unit 3, Site 19 Waste Drum Storage Area No. 1, San Bernardino, CA., June 25, 1997. PB97-964517REB 98-03 PC A05/MF A01

FPA/541/R-97/207 Superfund Record of Decision (EPA Region 4): Savannah River Sitr (USDOE), Operable Unit 11, Central Shops Burning/Rubble Pit (631-6G) (U), Aiken, SC., May 14, PR97-964025REB 98-03 PC A04/MF A01

EPA/541/R-97/209 Superfund Record of Decision (EPA Region 4): Pensa-cola Naval Air Station, Operable Unit 10, Pensacola, RL, September 15, 1997. 98-04 PC A08/MF A02 PB97-964027REB

EPA/541/R-97/210 PAUD417H-97/210
Superfund Record of Decision (EPA Region 4): Oek Ridge Reservation (USDOE), Operable Unit 14, Oek Ridge, TN., September 25, 1997.
PB97-964028REB 98-03 PC A06/MF A02 PA/34/1/F49//211
Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 12 (Site 3), Onslow County, NC., May 15, 1997.
PB97-984029REB 98-03 PC A08/MF A02

EPA/541/R-97/212

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 13 (Site 63), Onslow County, NC., May 15, 1997. PB97-964030REB 98-03 PC A06/MF A01

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PB97-963102REB 98-03 PC A04/MF A01

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EPA/541/R-97/010

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EPA/541/R-97/011

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EPA/541/R-97/012

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PB97-963107REB 98-03 PC A03/MF A01

EPA/541/R-97/014

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EPA/541/R-97/015

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FPA/541/R-07/016

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PB97-963110REB 96-03 PC A03/MF A01

EPA/541/R-97/017

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EPA/541/R-97/018

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EPA/541/R-97/019

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EPA/541/R-97/020

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98-03 PC A05/MF A01 PR97-964004REB

EPA/541/R-97/021

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EPA/541/R-97/022

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 14, Aiken, SC., March 27, 1997.
PB97-964006REB 98-03 PC A05/MF A01

EPA/541/R-97/023

Superfund Record of Decision (EPA Region 4): Savannah River Säe (USDOE), Operable Unit 5, Alken, SC., March 27, 1997. PB97-964007REB 98-03 PC A03/MF A01

EPA/541/R-97/024

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 4, Aiken, SC., March 27, 1997. PB97-964008REB 98-03 PC A03/MF A01 EPA/541/R-97/025

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 13, Aiken, SC., March 27, 197.
PB97-964009REB 98-03 PC A05/MF A01

EPA/541/R-97/026

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March 27, 1997 PB97-964010RFB 98-03 PC A03/MF A01

EPA/541/R-97/027

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March 27, 1997.
PB97-964011REB 98-03 PC A04/MF A01

EPA/541/R-97/028

Superfund Record of Decision (EPA Region 5): Reilty Tar and Chemical Company Site, (Dover Plant), Dover, OH., 98-04 PC A08/MF A02

EPA/541/R-97/029

Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Ml., February 5, 1997. PB97-964102REB

98-04 PC A06/MF A01

EPA/541/R-97/030 Superfund Record of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1996.
PB97-964301REB 98-03 PC A05/MF A01

EPA/541/R-97/031

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, Hl., November 8, 1996. PB97-964501REB 98-03 PC A09/MF A02

EPA/541/R-97/032

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, Hl., February 98-03 PC A07/MF A02

PB97-964502REB FPA/541/R-07/033

Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997. PB97-964503REB 98-03 PC A05/MF A01

EPA/541/R-97/034

Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January 17, 1997 PR97-964504RFB 98-03 PC A04/MF A01

EPA/541/R-97/035

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): United Heckathorn Company, Richmond, CA., November 29, 1996. PC A02/MF A01 PC A02/MF A01

EPA/541/R-87/036

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE) (Treatment Facilities A and B), Livermore, CA., April 16, 1997.

PB97-963112REB 98-03 PC A03/MF A01

EPA/541/R-97/037

Record of Decision (EPA Region 9): San Fernando Valley (Area 1), Burbank Operable Unit, Los Angeles, CA., February 12, 1997. PB97-963113REB 98-03 PC A04/MF A01

EPA/541/R-97/038

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE) (Metal Discharge Limits), Livermore, CA., April 15, 1997. CA., April 15, 1997 PB97-963114REB 98-03 PC A03/MF A01

EPA/541/R-97/039

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Apache Powder Co., St. David, AZ., April 16, 1997.
PB97-963115REB 98-03 PC A03/MF A01

EPA/541/R-97/040

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Tucson International Airport Area, (Areas A and B Groundwater Operable Unit), Tucson, AZ., February 27, 1997.
PB97-963116REB 98-03 PC A03/MF A01

FPA/541/R-97/041

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Selma Treating Co., Selma, CA., April 18, 1997.
PB97-963117REB 98-04 PC A08/MF A02

EPA/541/R-97/042

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Westinghouse Electric Corp. (Sunnyvale), Sunnyvale, CA., March 14, 1997. P897-963118REB 98-03 PC A03/MF A01

EPA/541/R-97/043

Superfund Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Liver-more, CA. January 29, 1997. PB97-94505REB 98-03 PC A08/MF A02

EPA/541/R-97/044

Superfund Record of Decision (EPA Region 10): Hanford Site - 100 Area (USDOE) 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units, Benton County, WA., April 4, 1997. PB97-963127REB 98-04 PC A04/MF A01

EPA/541/R-97/045

Superfund Record of Decision (EPA Region 10): Harbor Island (Lead), The Shipyard Sediment Operable Unit, Seattle, WA., November 27, 1996.

98-04 PC A06/MF A01 PB97-964601REB

EPA/541/R-97/048

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit A) (aka: Bremerton Naval Complex), Bremerton, WA., January 24, 1997

PB97-964602REB 98-04 PC A08/MF A02

EPA/541/R-97/047

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit NSC) (aka: Bremerton Naval Complex), Bremerton, WA., December 13, 1000

PB97-964603RFR 98-04 PC A07/MF A02

EPA/541/R-97/048

Superfund Record of Decision (EPA Region 10): Hanford 200 Area (USDOE), (200-UP-1 Operable Unit), Benton County, WA., February 11, 1997. P897-964604REB 98-04 PC A06/MF A01

FPA/541/R-97/049

Superfund Record of Decision (EPA Region 10): Monsanto Chemical Co. (Soda Springs), Soda Springs, ID., April 30,

PB97-964605REB 98-04 PC A07/MF A02

EPA/541/R-97/050

Superfund Record of Decision (EPA Region 10): Elmendorf Air Force Base, Operable Unit 3, Greater Anchorage Borough, AK., December 5, 1996.

PB97-964606REB 98-04 PC A05/MF A01

EPA/541/R-97/051

Superfund Record of Decision (EPA Region 10): Elmendorf Air Force Base, Operable Unit 6 and Source Area SS 19, Greater Anchorage Borough, AK, December 4, 1996. PB97-964607REB 98-04 PC A12/MF A03

EPA/541/R-97/053

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Toffdahl Drums, Brush Prairie, WA., June 17, 1997.
PB97-963119REB 98-04 PC A02/MF A01

EPA/541/R-97/054

Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 1, Fairbanks North Star Borough, AK., June 27, 1997. PB97-964608REB 98-04 PC A09/MF A02

EPA/541/R-97/055

Superfund Record of Decision (EPA Region 2): Jones Sanitation, Hyde Park, NY., March 31, 1997.
PB97-963804REB 98-03 PC A08/MF A02

EPA/541/R-97/056

Superfund Record of Decision (EPA Region 2): Robintech, Inc., National Pipe Compnay, Town of Vestal, NY., July 25,

PB97-963805REB 98-03 PC A08/MF A02

EPA/541/R-97/057

Superfund record of Decision (EPA Region 3): Crossley Farm, (Hereford Groundwater), Hereford, PA., June 30,

PB97-963902REB 98-03 PC A04/MF A01

EPA/541/R-97/058

Superfund Record of Decision (EPA Region 3): Berks Land-fill, Spring Townshop, PA., July 22, 1997. PB97-963903REB 98-04 PC A08/MF A02 EPA/541/R-97/059

Superfund Explanation of Significant Difference of the Record of Decision (EPA Region 10): Commencement Bay, Near Shore/Tide Flats, Operable Unit 01 - Sediments and Operable Unit 05 - Source, Pierce County, WA., July 28, 98-04 PC A07/MF A02 PR97-963120RFB

EPA/541/R-97/060

Superfund Record of Decision Amendment (EPA Region 10): Gould, Inc., Soits Operable Unit, Portland, OR., June 3,

98-04 PC A06/MF A01

98-04 PC A10/MF A03

PR97-963121REB EPA/541/R-97/061

Superfund Record of Decision (EPA Region 10): Fort Wainwright, Operable Unit 2, Fairbanks North Star Borough, AK., March 31, 1997.

PRO7-064609RFR

EPA/541/R-97/062 Superfund Record of Decision Amendment (EPA Region 3): Recticon/Allied Steel Corp., East Coventry Twp., PA., August 29, 1997.
PB97-963122REB 98-03 PC A03/MF A01

EPA/541/R-97/063

Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albany, GA., September 2, 1997. PB97-964012REB 98-03 PC A06/MF A01

EPA/541/R-97/064

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Albany, GA, September 2, 1997. PB97-964013REB 98-03 PC A08/MF A02

EPA/541/R-97/065

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Pop-lar Creek Characterization Area), Oak Ridge, TN., July 10,

98-03 PC A05/MF A01 PB97-964014REB

EPA/541/R-97/066

Region 4): Oak Ridge Reservation (USDOE) (Sludge Removal from the Gunite and Associated Tanks Operable Unit, Waste Area Grouping 1), Oak Ridge, TN., September 2, 1997.
P897-964015REB 98-03 PC A04/MF A01

EPA/541/R-97/067

Superfund Record of Decision Amendment (EPA Region 5): Clare Water Supply, Clare, Mi., May 15, 1997. PB97-963123REB 98-03 PC A03/MF A01

EPA/541/R-97/068

Superfund Record of Decision Amendment (EPA Region 5): Arcanum Iron and Metal, Darke County, OH., June 18, 1997 PB97-963124REB 98-03 PC A08/MIF A02

EPA/541/R-97/069

Superfund Record of Decision Amendment (EPA Region 5): United Scap Lead Co., Inc., Troy OH., June 27, 1997. PB97-963125REB 98-03 PC A09/MF A02

EPA/541/R-97/070

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Fields Brook (Sediment Operable Unit), Ashtabula, OH., August 15, 1997. P897-963126REB 98-03 PC AD4/MF A01

EPA/541/R-97/071

Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997.
PB97-984103REB 98-03 PC A05/MF A01

EPA/541/R-97/072

Superfund Record of Decision (EPA Region 10): East Mult-nomah County Groundwater Contamination, Operable Unit 1, Multhomah County, OR., December 31, 1996. PB97-984610REB 98-04 PC A08/MF A02

EPA/541/R-97/073

Superfund Record of Decision (EPA Region 7): Cherokee County (Baxter Springs and Treece Subsites), Operable Unit 3/4, Cherokee County, KS., August 20, 1997. P897-964302REB 98-03 PC A12/MF A03

EPA/541/R-97/074

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL., September 18, 1997. PB97-964016REB 98-03 PC A04/MF A01

EPA/541/R-97/075

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Clinch River and Poplar Creek Op-erable Units, Oak Ridge, TN., September 23, 1997. PB97-964017REB 98-03 PC A05/MF A01

EPA/541/R-97/078

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) (Waste Area Group 17), Paducah, KY., September 29, 1997. PB97-964018REB 98-03 PC A04/MF A01

EPA/541/R-97/077

Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, MI., September 30, 1997 PB97-964104REB 98-03 PC A06/MF A01

EPA/541/R-97/078

Superfund Record of Decision (EPA Region 5): Tippecanoe Sanitary Landfill, Inc., Lafayette, IN., September 30, 1997. PB97-964105REB 98-03 PC A05/MF A01

EPA/541/R-97/079

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 20 (Site 28 Soil and Groundwater), Lakehurst, NJ., July 7, 1997. PB97-963806REB 98-03 PC A05/MF A01

EPA/541/R-97/080

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 21 (Areas A and B Groundwater), Lakehurst, NJ., July 7, 1997. PB97-963807REB 98-03 PC A05/MF A01

EPA/541/R-97/081

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 24 (Area K Ground-water), Lakehurst, NJ., July 7, 1997. PB97-983808REB 98-03 PC A04/MF A01

EPA/541/R-97/082

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Teledyne Wah Chang, Albany, OR, October 8, 1996. PB97-963128REB 98-04 PC A03/MF A01

EPA/541/R-97/083

Superfund Record of Decision (EPA Region 2): Federal Aviation Administration Technical Center, (Areas A, J, and N), Altantic County, NJ., July 21, 1997.
P897-963809REB 98-03 PC A05/MF A01

EPA/541/R-97/084

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (site A), Operable Unit 1, Cotts Neck, NJ, September 25, 1997.
PB97-963810REB 98-03 PC A06/MF A02

FPA/541/R-97/085

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 2, Cotts Neck, NJ., September 25, 1997.
PB97-963811REB 98-03 PC A06/MF A01

EPA/541/R-97/086

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Volney Municipal Landfill, Town of Volney, NY., August 7, 1997. P897-963129REB 98-04 PC A03/MF A01

FPA/541/R-97/087

Superfund Record of Decision (EPA Region 3): Jacks Creek/Sitkin Smelting and Refinery Inc., Site, Village of Maritand, PA, September 30, 1997. P897-963904REB 98-03 PC A06/MF A01 98-03 PC A06/MF A01

EPA/541/R-97/088

Superfund Record of Decision (EPA Region 3): North Penn - Area 12, Worcester Township, PA., September 30, 1997. PB97-963905REB 98-03 PC A09/MF A02 PB97-963905REB

EPA/541/R-97/089

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy), Operable Unit 1, Mineral, WV., February 12, 1997.
PB97-963906REB 98-03 PC A05/MF A01

EPA/541/R-97/090

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Beach Point Test Site, Aberdeen Proving Ground, MD., September 24, 1997. PB97-963907REB PC A05/MF A01

EPA/541/R-97/091

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Watson Creek Sediment, O-Field Operable Unit, Aberdeen Proving Ground, MD., September 23, 1997.
PB97-963908REB 98-03 PC A05/MF A01

EPA/541/R-97/092

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Michaelsville Landfill), Aberdeen Proving Ground, MD., September 23, 1997.
P897-983909REB 98-03 PC A04/MF A01

EPA/541/R-97/093

Superfund Record of Decision (EPA Region 3): Marine Corps Combat Development Command (Site 4), Operable Unit 4, Quantico, VA., September 30, 1997. PB97-963910REB 98-03 PC A05/MF A01

EPA/541/R-97/094

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Bendix Flight Systems Division, South Montrose, PA., November 22, 1996. PB97-963130REB 98-03 PC A02/MF A01

EPA/541/R-97/095

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997. PB97-964019REB 98-03 PC A04/MF A01

EPA/541/R-97/096

Superfund Record of Decision (EPA Region 3): Tobyhanna Army Depot, Operable Unit 1, Tobyhanna, PA., September 30, 1997. PB97-963911REB 98-03 PC A07/MF A02

EPA/541/R-97/097

Superfund Record of Decision (EPA Region 5): Tomah Armory Landfill, Tomah, WI., September 23, 1997.
PB97-964106REB 98-03 PC A05/MF A01

EPA/541/R-97/098

Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, WI., September 25, 1997. PB97-964107REB 98-03 PC A05/MF A01

EPA/541/R-97/099

Superfund Record of Decision (EPA Region 5): South Point Plant Site, South Point, OH., September 26, 1997. PB97-964108REB 98-03 PC A05/MF A01

EPA/541/R-97/100

Superfund Record of Decision (EPA Region 5): Marion (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997. PB97-964109REB 98-03 PC A05/MF A01

EPA/541/R-97/101

Superfund Record of Decision Amendment (EPA Region 10): Hanford Site - 200 Area (USDOE), Benton County, WA., September 25, 1997.
PB97-963136REB 98-04 PC A04/MF A01

EPA/541/R-97/102

Superfund Record of Decison (EPA Region 1): Davis Glocester-Smithfield Regional (GSR) Landfill Site, Glocester/Smithfield, RI., September 29, 1997.
PB97-963703REB 98-03 PC A10/MF A02

EPA/541/R-97/103

Superfund Record of Decison (EPA Region 2): Global Sanitary Landfill Operable Unit 2, Old Bridge Township, NJ., September 29, 1997. September 29, 199 PB97-963812REB 98-03 PC A07/MF A02

EPA/541/R-97/104

Superfund Record of Decision (EPA Region 2): Higgins Disposal Site Operable Unit 1, Kingston, NJ., September 30, 1997. PB97-963813REB 98-03 PC A10/MF A02

EPA/541/R-97/105

Superfund Record of Decision (EPA Region 2): Janssen Inc., Operable Unit 1, Gurabo, PR., September 30, 1997. PB97-963814REB 98-03 PC A06/MF A01

EPA/541/R-97/106

Superfund Record of Decison Amendment (EPA Region 2): Preferred Plating Corp., Farmingdale, NY., September 30, 1997. P897-963131RFR 98-03 PC A08/ME A02

EPA/541/R-97/107

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 2): Curcio Scrap Metal Inc., Operable Unit 2, Saddle Brook, NJ., September 30, 1997. PB97-963815REB 98-03 PC A06/MF A01

EPA/541/R-97/108

Supertund Record of Decision (EPA Region 2): Pollution Abatement Services, Operable Unit 4, Oswego, NY., Sep-tember 30, 1997. PB97-963816REB 98-03 PC A06/MF A01

EPA/541/R-97/109

Superfund Record of Decision (EPA Region 2): Richardson Hill Road Landfill/Pond, Sidney Center, NY., September 30, 1997

PB97-963817REB 98-03 PC A07/MF A02

EPA/541/R-07/110

Superfund Record of Decision Amendment (EPA Region 4): Homesteed AFB, FL, August 18, 1997. PB97-963132REB 98-03 PC A04/MF A01

EPA/541/R-97/111

Superfund Record of Decision (EPA Region 8): Elisworth Air Force Base, Operable Unit 11, Elisworth Air Force Base, SD., April 28, 1997.
PB97-964401REB 98-03 PC A06/MF A01

EPA/541/R-07/112

Superfund Record of Decision (EPA Region 5): Wright-Pat-terson Air Force Base, Operable Unit 2, Dayton, OH., September 30, 1997. PB97-964110REB 98-03 PC A05/MF A01

EPA/541/R-97/113

Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, ML, September 30, 1997. PB97-964111REB 98-03 PC A06AMF A01

EPA/541/R-67/114

Superfund Record of Decision (EPA Region 5): Scrap Processing Co., Inc., Medford, Wt., September 30, 1997.
PB97-964112REB 98-03 PC A05/MF A01

EPA/541/R-07/115

Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 2, Ashtabuta, OH., September 29, 1997. PB97-964113REB 98-03 PC A08/MF A02

EPA/541/R-07/116

Supertund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 4, Astabula, OH., June 30, 1997. PB97-964114REB 98-03 PC A08/MF A02

EPA/541/R-67/117

Superfund Record of Decision (EPA Region 5): Bendix Corp/Allied Automotive, St. Joseph, Ml., September 30,

PB97-964115REB 98-03 PC ADSAME AD1

EPA/541/R-97/118

Supertund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA, March 4, 1997. P897-964201REB 98-03 PC A05AMF Att

EPA/541/R-07/119

Superfund Record of Decision (EPA Region 6): National Zinc Corp., Operable Unit 2, Bartlesville, OK., October 2, 1997 98-03 PC ADAME ADI

PB97-964202REB

EPA/541/R-67/120 Superfund Record of Decision Amendment (EPA Region 6): Bailey Waste Disposal, Bridge City, TX., December 16,

1996. PB97-963133REB

EPA/541/R-07/121 Superfund Record of Decision Amendment (EPA Region 6): South Cavalcade Street Site, Houston, TX., June 27, 1997. PB97-963134REB 98-04 PC AD7/MF A02

98-03 PC A048/F A01

EPA/541/R-87/122

Supertund Record of Decision Amendment (EPA Region 6): Brio Refining Inc., Friendship, TX., July 2, 1997. PB97-96313SREB 98-03 PC A04/MF A01

EPA/541/R-07/123

Superfund Record of Decision (EPA Region 6): Southern Shipburding Corp., Operable Unit 2, Sidell, LA., September 15, 1997. P897-964203REB 98-03 PC A07/MF A02

EPA/541/R-67/124

Superturd Record of Decision (EPA Region 6): RSR Corp., Operable Unit 3, Deltas, TX., September 30, 1997. PB97-964204REB 98-04 PC A12/MF A03

FPA/SA1/R-87/125

Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Dallas, TX, April 3, 1997. PB97-96420SREB 98-03 PC A09/MF A02

EPA/541/R-87/126

Superlund Record of Decision (EPA Region 6): Tar Creek (Ottawa County), Operable Unit 2, Ottawa County, OK., Auoust 27, 1997. PB97-964206REB 98-03 PC A13/MF A03

EPA/541/R-07/127

Superfund Record of Decision (EPA Region 9): Agriculture Street Landfilt, Operable Unit 4 and 5, New Orleans, LA, September 2, 1997. 98-03 PC A1284F A03 PR07-064207RFR

EPA/541/R-97/128

Superfund Record of Decision (EPA Region 9): Western Pacific Reilroad Company, Oroville, CA., September 30, 1997. PB97-964506REB 98-03 PC A05/MF A01

EPA/541/R-97/129

Superfund Record of Decision (EPA Region 9): Moffett Navel Air Station, Operable Unit 1, Sunnyvale, CA., August 14, 1997. PB97-964507REB 98-04 PC A11/MF A03

EPA/541/R-97/130

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 3 and 4, Barstow, CA., June 3, 1997.
PB97-984508REB 98-04 PC A18/MF A04

EPA/541/R-97/131

Superfund Record of Decision (EPA Region 9): Del Amo Facility Waste Pits Operable Unit, Los Angeles, CA., September 5, 1997. PB97-964509REB 98-04 PC A15/MF A03

EPA/541/R-97/132

Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30, 1997.
PB97-964510REB 98-04 PC A07/MF A02

EPA/541/R-97/133

Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September 26,

98-03 PC A08/MF A02

PB97-964511RFB EPA/541/R-97/134

Superfund Record of Decision (EPA Region 9): Castle Air Force Base, Merced, CA., May 21, 1997.
PB97-964512REB 98-04 PC A12/MF A03

EPA/541/R-97/135

Superfund Record of Decision (EPA Region 9): El Toro Ma-rine Corps Air Station, Operable Units 2A and 3A (No Ac-tion Sites), El Toro, CA., September 29, 1997. PB97-964513REB 98-04 PC A10/MF A02

EPA/541/R-97/136

Superfund Record of Decision (EPA Region 9): El Toro Ma-rine Corps Air Station, Operable Unit 2A (Site 24-VOC Source Area Vadose Zone), El Toro, CA., September 29, PB97-964514REB 98-04 PC A11/MF A03

EPA/541/R-07/137

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area (Volume 1 and 2), Tucson, AZ., September 30, 1997. PB97-964515REB 98-03 PC A14/MF A03

EPA/541/R-97/138

Superfund Record of Decision (EPA Region 2): Naval Security Group ACtivity, Operable Unit 1 (Sites 2 and 4), Sabana Seca., PR., September 30, 1997.
PB97-963818REB 98-03 PC A05/MF A01

EPA/541/R-97/139

Superfund Record of Decision (EPA Region 2): Naval Security Group Activity, Operable Unit 3 (Sites 1 and 3), Sebena Seca, PR., September 30, 1997.
PB97-963819REB 98-03 PC A05/MF A01

EPA/541/R-97/140

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): DeRewel Chemical Co., Kingwood Township, N.J., June 12, 1997. P897-963137REB 98-03 PC A02/MF A01

EPA/541/R-97/141

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Pepe Field, Boonton, NJ., July 25, 1997.
PB97-963138REB 98-03 PC A03/MF A01

EPA/541/R-07/142

Superfund Record of Decision (EPA Region 7): Fort Riley Pesticide Storage Facility, Operable Unit 2, Junction City, KS, September 29, 1997. PB97-984303REB 98-03 PC A05/MF A01

EPA/541/R-87/143

Superfund Record of Decision (EPA Region 7): Nebraska Ordnance Plant (Former), Operable Unit 2, Mead, NE., April 7, 1997. PB97-964304REB 98-03 PC A06/MF A01

EPA/541/R-07/144

Superfund Record of Decision (EPA Region 7): Bee Cee Manufacturing Co., Malden, MO., September 30, 1997. PB97-96430SREB 98-03 PC A05/MF A01

EPA/541/R-97/145

Supertund Record of Decision (EPA Region 8): California Gulch, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02

EPA/541/R-07/148

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Libby Groundwater Contamination, Libby, MT., January 22, 1997. P897-963139REB 98-03 PC A03/MF A01

EPA/541/R-97/147

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Comhuster Army Ammunition Plant, Hall County, NE., February 7, 1997. PB97-963140REB 98-03 PC A03/MF A01

EPA/541/R-97/148

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 3): Revers Chemical Co., Nockamixon Township, PA., March 25, 1997. PB97-963141REB 98-03 PC A02/MF A01

EPA/541/R-97/149

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Mill Creek Dump, Erie, PA, April 30, 1997.
PB97-863142REB 98-03 PC A02/MF A01

EPA/541/R-97/150

Supertund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Brodhead Creek, Stroudsburg, PA., September 30, 1997.
PB97-963143REB 98-03 PC A02/MF A01

EPA/541/R-97/151

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Paoli Rail Yard, Paoli, PA, April 2, 1997.
PB97-963144REB 98-03 PC AD2/MF An1

EPA/541/R-97/152

Superfund Explanation of Significant Defference for the Record of Decision (EPA Region 6): PAB Oil and Chemical Service Inc., Abbeville, LA., March 12, 1997.
PB97-963145REB 98-03 PC A03/MF A01

EPA/541/R-97/153

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Crystal Chemical Co., Houston, TX., March 19, 1997.
P897-963146REB 98-03 PC A04/MF A01 98-03 PC A04/MF A01

EPA/541/R-97/154

Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Carterville, IL., February 19, 1997.
PB97-964116REB 98-03 PC A07/MF A02

EPA/541/R-97/155

Superfund Record of Decision (EPA Region 5): Roto-Finish Co., Inc., Kalamazoo, Ml., March 31, 1997.
PB97-964117REB 98-03 PC A06/MF A01

EPA/541/R-97/156

Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, WI., March 31, 1997.
PB97-964118REB 98-03 PC A05/MF A01

EPA/541/R-97/157

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battation Center, Site 09, North Kingstown, RI., September 29, 1997. PB97-983704REB 98-03 PC A15/MF A03

EPA/541/R-97/158

Superfund Record of Decision (EPA Region 1): Fort Devens (Areas of Contamination 43G and 43J), Fort Devens, MA., October 17, 1996. PB97-963705REB 98-03 PC A10/MF A02

EPA/541/R-97/159

Superfund Record of Decison (EPA Region 1): Fort Devens (Area of Contamination 63AX), Fort Devens, MA., September 29, 1997.
PB97-983706REB 98-03 PC A06/MF A01

EPA/541/R-97/160

Superfund Record of Decision (EPA Region 1): Fort Devens-Sudbury Training Annex (Areas of Contamination A4, A7, and A9), Middlesex County, MA., September 30, 1997. 1997. PB97-963707REB 98-04 PC A08/MF A02

EPA/541/R-97/161 Superfund Record of Decision (EPA Region 1): Gallup's Quarry Superfund Site, Plainfield, CT., September 30, 1997. PB97-963708REB 98-04 PC A09/MF A02

EPA/541/R-07/162

Superfund Record of Decison (EPA Region 1): New London Submarine Base, New London, CT., September 18, 1997. PB97-963709REB 98-03 PC A03/MF A01

EPA/541/R-97/163

Superfund Record of Decison (EPA Region 1): Pease Air Force Base Brooks/Ditches Operable Unit, Portsmouth/ Newington, NH., September 30, 1997.
PB97-963710REB 98-04 PC A13/MF A03

EPA/541/R-97/164

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Kellog-Deering Well Field, Norwalk, CT., March 31, 1997. PB97-983147REB 98-03 PC A03/MF A01

EPA/541/R-97/165

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 1): Salem Acres, Salem, MA., April 11, 1997.
P897-963148REB 98-03 PC A02/MF A01

EPA/541/R-97/166

Superfund Record of Decision (EPA Region 2): Grand Street Mercury Site, Hoboken, NJ., September 30, 1997. PB97-963820REB 98-04 PC A99/MF A06

EPA/541/R-97/167

Superfund Record of Decision Amendment (EPA Region 2): Haviland Complex Town of Hyde Park, NY., August 1, 1997. PR07-083149RFR 99-03 PC A07/MF A02

EPA/541/R-97/168

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Powell Road Landfill, Dayton OH., January 23, 1997.
PB97-963150REB 98-03 PC A03/MF A01

EPA/541/R-97/169

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Powell Road Landfill, Dayton, OH., August 13, 1997.
PB97-963151REB 98-03 PC A03/MF A01

FPA/541/R-97/170

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Janesville Ash Beds and Janesville Old Landfill, Janesville, WI., September 17, 98-03 PC A03/MF A01 PR97-963152RFB

EPA/541/R-97/171

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Moss-American (Kerr-McGee Oil CO.), Milwaukee, Wt., April 29, 1997. PB97-963153REB 98-03 PC A03/MF A01

EPA/541/R-97/172

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): City Disposal Corp. Landfill, Dunn, WI., June 11, 1997.
PB97-963154REB 98-03 PC A02/MF A01

EPA/541/R-97/173

Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September

PB97-963155REB 98-03 PC A03/MF A01

EPA/541/R-97/174

Superfund Record of Decision (EPA Region 3): Allegany Balistics Laboratory, (USNavy), Operable Unit 3, Mineral, WV., May 29, 1997.

PB97-963912REB 98-03 PC A06/MF A01 EPA/541/R-97/175

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (LF 13), Dover, DE., September 30, 1997. PB97-963913REB 98-03 PC A05/MF A01

EPA/541/R-97/176

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (WP 14 and LF 15), Dover, DE., September 30,

98-03 PC A05/MF A01 PB97-963914REB

EPA/541/R-97/177

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (FT 03), Dover, DE., September 30, 1997. PB97-963915REB 98-03 PC A05/MF A01

EPA/541/R-97/178

Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, War-minster Township, PA., September 30, 1997. PB97-963916REB 98-04 PC A04/MF A01

EPA/541/R-97/179

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 2, Dahlgren, VA., September 29, 1997. PB97-963917REB

98-03 PC A05/MF A01

EPA/541/R-97/180

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 12, Dahlgre, VA., September 30, 1997.
PB97-963918REB 98-03 PC A05/MF A01

EPA/541/R-97/181

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Site 12, Operable Units 3, 4, and 5, Yorktown, VA., April 16, 1997. PB97-963919REB 98-03 PC A10/MF A03

EPA/541/R-97/182

Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., September 16, 1997. PB97-964020REB 98-03 PC A06/MF A02

EPA/541/R-97/183

Superfund Record of Decision Amendment (EPA Region 4): Arington Blending and Packaging, Artington, TN., July 24, 1997. 98-04 PC A08/MF A02

PB97-963156REB

EPA/541/R-97/184 Superfund Record of Decision Amendment (EPA Rgion 4):
Coleman-Evand Wood Preserving Co., Whitehouse, FL,
September 25, 1997.
PB97-963157REB 98-04 PC A06/MF A01

EPA/541/R-97/185 Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18, 1996. PB97-964021REB 98-03 PC A04/MF A01

EPA/541/R-97/186

Superfund Record of Decision Amendment (EPA Region 4):
Marzone Inc./Chevron Chemical Company, Tifton, GA.,
June 18, 1997.
PB97-983158REB 98-03 PC A04/MF A01

EPA/541/R-97/187

Superfund Record of Decision Amendment (EPA Region 4): Munisport Landfill, North Miami, FL, September 5, 1997. PB97-963159REB 98-04 PC A05/MF A01

EPA/541/R-97/188

Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Colum-bia MS., August 8, 1997. PB97-964022REB 98-03 PC A04/MF A01

EPA/S41/R-97/189

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January 23,

98-03 PC A04/MF A01 PR97-964023REB

FPA/541/R-97/191

Superfund Record of Decision (EPA Region 9): Camp Penderon Marine Coprs Base, Operable Unit 2, San Diego, CA., September 30, 1997.
PB97-964516REB 98-04 PC A15/MF A03

EPA/541/R-97/192

Supertund Record of Decision (EPA Region 2): Vega Alta Public Supply Wells, Operable Unit 2, Vega Alta PR., Sep-tember 30, 1997. 98-03 PC A12/MF A03

PB97-963821REB EPA/541/R-97/193

Superturd Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 8, Cgehyenne, WY., November 21, 1997.

PB97-964403REB 98-04 PC A04/MF A01 EPA/541/R-97/194

Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997.
PB97-964404REB 98-03 PC A04/MF A01

EPA/541/R-97/195

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., February

PB97-964405REB 98-03 PC A04/MF A01

EPA/541/R-97/196

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 3, Golden, CO., June 3, 98-03 PC A04/MF A01

EPA/541/R-97/197

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30,

PB97-964407REB

EPA/541/R-97/198 Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30,

PB97-964408REB

98-03 PC A07/MF A02

98-03 PC A07/MF A02

EPA/541/R-97/199

1007

Superfund Record of Decision (EPA Region 10): East Multi-nomah County Ground Water Contamination, Operable Unit 2, Multinomah County, OR., December 31, 1996. PB97-964611REB 98-04 PC A07/MF A02

EPA/541/R-97/200

Superfund Record of Decision (EPA Region 10): Boomsnub/Airoo Site-Wide Ground Water Operable Unit, Vancouver, WA., September 29, 1997. PB97-984612REB 98-04 PC A09/MF A02

EPA/541/R-97/201

Superfund Record of Decision (EPA Region 10): Old Navy Durnp Manchester Laboratory (USEPANOAA), Manchester, WA., September 30, 1997.
PB97-964613REB 98-04 PC A07/MF A02

EPA/541/R-97/202

Superfund Record of Decision (EPA Region 10): Fort Richardson (USArmy), Operable Units A and B, Anchorage, AK., September 15, 1997.
P897-984614REB 98-04 PC A09/MF A02

EPA/541/R-97/203

Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, 1997. PB97-964024REB 98-03 PC A09/MF A02

FPA/541/R-97/204

PAJS+1/IF-97/204

Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Aiken, SC., September 30, 1997-

EPA/541/R-97/205

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 16, Old F Area Seepage Basin (904-49G), Aiken, SC., May 14, 1997. PB97-964032REB 98-03 PC A05/MF A01

EPA/541/R-97/206

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PB98-14725REB 98-03 PC A03/MF A01 EPA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/054 EVA/800/A-98/0554 EVA/800/A-98/0554 EVA/800/A-98/0556 EVA/800/A-98/0556 EVA/800/A-98/0556 EVA/800/A-98/0556 EVA/800/A-98/0556 EVA/800/A-98/0557 EVA/800/A-98/0556 EVA/800/A-98/0556 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/056 EVA/800/A-98/057 EVA/800/A-98/056
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Development of a Digital Optical Measurement System for Analysis of Aerosol Spatial Distribution in the Indicor Environment. PB98-13753REB 98-03 PC A03/MF A01 EPA400/A-97/107 Design of an Aerosol Mass Spectral Interface. PB98-135759REB 98-03 PC A03/MF A01 EPA400/A-97/107 Review of Nitrous Oxide Behavior in the Atmosphere and in Combustion and Industrial Systems. PB98-135767REB 98-03 PC A04/MF A01 EPA400/A-97/108 Demonstration of Multimetal Continuous Emission Monitors for Real-Time Measurement of Trace Hazardous Metals. PB98-135775REB 98-03 PC A03/MF A01 EPA400/A-97/109 EPA's Data Attribute Rating System. PB98-135783REB 98-03 PC A03/MF A01 EPA400/A-97/110 Fireplace Emissions Update. New Particle Size Data. PB98-135791REB 98-03 PC A03/MF A01 EPA400/A-97/111 No-VOCNO-HAP Wood Furniture Coating System. PB98-135698REB 98-03 PC A03/MF A01 EPA400/A-97/112 Tropospheric Ozone and Fine Particle Air Quality Problems. PB98-135668REB 98-03 PC A03/MF A01 EPA400/A-97/113 Dual Function Sorbent/Catalyst Design for Energy Efficient Chlorinated VOC Destruction. PB98-135650REB 98-03 PC A03/MF A01 EPA400/A-97/114 Research on Emissions and Mitigation of POP's from Combustion Sources. PB98-139568REB 98-03 PC A03/MF A01 Interactive Effects of 03 and CO2: Implications for Terrestrat Ecosystems. PB98-137516REB 98-03 PC A03/MF A01 EPA400/A-98/002 EVANDO/A-98/002 EVANDO/A-98/002 EVANDO/A-98/002 EVANDO/A-98/002 EVANDO/A-98/003 PO A03/MF A01 EPA400/A-98/002 EVANDO/A-98/002 EVANDO/A-98/003 PO A03/MF A01 EPA400/A-98/002 EVANDO/A-98/003 PO A03/MF A01 EPA400/A-98/002 EVANDO/A-98/003 EVAND	Lessons Learned-Controlling VOCs from Three Paint Booths at Marine Corps Depot Facilities. PB96-140379REB 98-04 PC A03/MF A01 EPA/800/A-98/019 U.S. EPA Biomass Fuel Analytical Laboratory, PB96-140312REB 98-03 PC A03/MF A01 EPA/800/A-98/020 Particulate Matter Sources, Emissions, and Control Options-USA. PB96-142243REB 98-03 PC A03/MF A01 EPA/800/A-98/021 Identification and Evaluation of Pollution Prevention Techniques to Reduce Indoor Emissions from Engineered Wood Products. PB98-140304REB 98-03 PC A03/MF A01 EPA/800/A-98/022 Pilot Study to Evaluate the Impact of Air Duct Cleaning on Indoor Air Quality in Residences. PB98-140296REB 98-03 PC A03/MF A01 EPA/800/A-98/023 Reducing Indoor Air Emissions from Dry-Process Photocopy Machines. PB98-14028REB 98-03 PC A03/MF A01 EPA/800/A-98/024 Characterization of VOC Emissions from an Alkyd Paint. PB98-140270REB 98-03 PC A03/MF A01 EPA/800/A-98/025 Reducing Solvent and Propellant Emissions from Consumer Products. PB98-14026REB 98-03 PC A03/MF A01 EPA/800/A-98/025 Reducing Solvent and Propellant Emissions from Consumer Products. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/025 Evaluating Residential Air Duct Cleaning and IAQ: Results of a Field Study Conducted in Nine Single Family Dwellings. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/029 Comparison of CFC-114 and HFC-236ea Performance in Shipboard Vagor Compression Systems. PB98-14039SREB	PB98-139991REB 98-03 PC A03/MF A01 EPA/800/A-98/046 Performance Characteristics of a Multi-Stage Process fo Ex-situ Treatment of Solids or Liquids Contaminated with Chlorinated Organized Discovering Pb98-138662REB 98-03 PC A03/MF A01 EPA/800/A-98/047 Effectiveness of Vacuum Cleaning on Fungally Contaminated Duct Materials. PB98-14000/REB 98-03 PC A03/MF A01 EPA/800/A-98/048 Duty Cycle Effects on Small Engine Emissions. PB98-135619REB 98-03 PC A03/MF A01 EPA/800/A-98/049 Measurement of Carbonyl Compounds from Stationar Source Emissions by a PFBHA-GC-ECD Method. PB98-135643REB 98-03 PC A03/MF A01 EPA/800/A-98/050 Verification of Advanced Air Monitoring Systems. PB98-135635REB 98-03 PC A03/MF A01 EPA/800/A-98/051 Real-Time Monitoring of Particles, PAH, and CO in an Occupied Townhouse. PB98-135627REB 98-03 PC A03/MF A01 EPA/800/A-98/052 Future of the National Performance Audit Program (NPAP). PB98-147051REB 98-03 PC A03/MF A01 EPA/800/A-98/053 Combined Mercury and Sulfur Oxides Control Using Calcium-Based Sorbents. PB98-14725/REB 98-03 PC A03/MF A01 EPA/800/A-98/054 Fixed-Bed Control of Mecury; Role of Acid Gases and Comparison between Carbon-Based, Calcium-Based, an Coal Fly Ash Sorbents. PB98-147267REB 98-03 PC A03/MF A01 EPA/800/A-98/056 Development of a Method for the Speciation of Source Mecury Emissions. PB98-147267REB 98-03 PC A03/MF A01 EPA/800/A-98/056 Development of a Method for the Speciation of Source Mecury Emissions. PB98-14725/REB 98-03 PC A03/MF A01 EPA/800/A-98/056 Development of a Method for the Speciation of Source Mecury Emissions. PB98-14725/REB 98-03 PC A03/MF A01 EPA/800/A-98/056 Development of a Method for the Speciation of Source Mecury Emissions. PB98-14725/REB 98-03 PC A03/MF A01 EPA/800/A-98/056 Development of a Method for the Speciation of Source Mecury Emissions. PB98-14725/REB 98-03 PC A03/MF A01 EPA/800/A-98/056 EPA/800/A-98/056
Development of a Digital Optical Measurement System for Analysis of Aerosol Spatial Distribution in the Indicor Environment. PS98-13753REB 98-03 PC A03/MF A01 EPA/800/A-67/107 Design of an Aerosol Mass Spectral Interface. PS98-135759REB 98-03 PC A03/MF A01 EPA/800/A-67/107 Review of Nitrous Oxide Behavior in the Atmosphere and in Combustion and Industrial Systems. PS98-135767REB 98-03 PC A03/MF A01 EPA/800/A-67/108 Demonstration of Multimetal Continuous Emission Monitors for Real-Time Measurement of Trace Hazardous Metals. PS98-135775REB 98-03 PC A03/MF A01 EPA/800/A-97/109 EPA/800/A-97/109 EPA/800/A-97/109 EPA/800/A-97/110 Fireplace Emissions Update. New Particle Size Data. PS98-135791REB 98-03 PC A03/MF A01 EPA/800/A-97/111 No-VOCNo-HAP Wood Furniture Coating System. PS98-13569REB 98-03 PC A03/MF A01 EPA/800/A-97/112 Tropospheric Ozone and Fine Particle Air Quality Problems. PS98-13569REB 98-03 PC A03/MF A01 EPA/800/A-97/113 Dual Function Sorbent/Catalyst Design for Energy Efficient Chlorinated VOC Destruction. PS98-13569REB 98-03 PC A03/MF A01 EPA/800/A-97/114 Research on Emissions and Mitigation of POP's from Combustion Sources. PS98-135650REB 98-03 PC A03/MF A01 EPA/800/A-97/114 Research on Emissions and Mitigation of POP's from Combustion Sources. PS98-135650REB 98-03 PC A03/MF A01 EPA/800/A-98/001 Interactive Effects of C3 and CO2: Implications for Terestral Ecosystems. PS98-137516REB 98-03 PC A03/MF A01 EPA/800/A-98/002 Evaluation of the Behavior of Flame Ionization Detection Total Hydrocarbon Contentrations. PS98-137516REB 98-03 PC A03/MF A01 EPA/800/A-98/003 Cost Analysis of Activated Carbon versus Photocatalytic	Lessons Learned-Controlling VOCs from Three Paint Booths at Marine Corps Depot Facilities. PB96-140379REB 9-04 PC A03/MF A01 EPA/800/A-98/029 PC A03/MF A01 EPA/800/A-98/020 Particulate Matter Sources, Emissions, and Control Options-USA. PB96-140212REB 98-03 PC A03/MF A01 EPA/800/A-98/021 Identification and Evaluation of Pollution Prevention Techniques to Reduce Indoor Emissions from Engineered Wood Products. PB96-1402304REB 98-03 PC A03/MF A01 EPA/800/A-98/022 Pilot Study to Evaluate the Impact of Air Duct Cleaning on Indoor Air Quality in Residences. PB96-140296REB 98-03 PC A03/MF A01 EPA/800/A-98/023 Reducing Indoor Air Emissions from Dry-Process Photocopy Machines. PB98-140296REB 98-03 PC A03/MF A01 EPA/800/A-98/024 Characterization of VOC Emissions from an Alkyd Paint. PB98-140270REB 98-03 PC A03/MF A01 EPA/800/A-98/025 Reducing Solvent and Propellant Emissions from Consumer Products. PB98-14026REB 98-03 PC A03/MF A01 EPA/800/A-98/025 Evaluating Residential Air Duct Cleaning and IAQ: Results of a Field Study Conducted in Nine Single Family Dwellings. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140247REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140297REB 98-03 PC A03/MF A01 EPA/800/A-98/027 Defining Requirements and Data Outcomes for Environmental Verification Program for Indoor Air Products. PB98-140297REB 98-03 PC A03/MF A01 EPA/800/A-98/029 Comparison of CFC-114 and HFC-236ea Performance in Shipboard Vapor Compression Systems. PB98-14039SREB 98-03 PC A03/MF A01 EPA/800/A-98/029 Comparison of CFC-114 and HFC-236ea Performance in Shipboard Vapor Compression Systems. PB98-14039SREB 98-03 PC A03/MF A01 EPA/800/A-98/029 Comparison of CFC-114 and Their Impact on Indoor Air.	PB98-139991REB 98-03 PC A03/MF A01 EPA/800/A-98/046 Performance Characteristics of a Multi-Stage Process fo Ex-situ Treatment of Solids or Liquids Contaminated with Chlorinated Organics. PB98-138662REB 98-03 PC A03/MF A01 EPA/800/A-98/047 Effectiveness of Vacuum Cleaning on Fungally Contaminated Duct Materials. PB98-14000/7REB 98-03 PC A03/MF A01 EPA/800/A-98/048 Duty Cycle Effects on Small Engine Emissions. PB98-135619REB 98-03 PC A03/MF A01 EPA/800/A-98/049 Measurement of Carbonyl Compounds from Stationar Source Emissions by a PFBHA-GC-ECD Method. PB98-13563REB 98-03 PC A03/MF A01 EPA/800/A-98/050 Verification of Advanced Air Monitoring Systems. PB98-13563REB 98-03 PC A03/MF A01 EPA/800/A-98/051 Real-Time Monitoring of Particles, PAH, and CO in an Occupied Townhouse. PB98-135627REB 98-03 PC A03/MF A01 EPA/800/A-98/052 Future of the National Performance Audit Program (NPAP). PB98-147051REB 98-03 PC A03/MF A01 EPA/800/A-98/053 Combined Mercury and Sulfur Oxides Control Using Calcium-Based Sorbents. 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PB97-963148REB 98-03 PC A02/MF A01

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PB97-963151REB 98-03 PC A03/MF A01

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PB97-963704REB 98-03 PC A15/MF A03

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PB97-963804REB 98-03 PC A08/MF A02

PB97-963805REB

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PB97-963805REB PB97-963806REB

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PB97-963806REB

Superfund Record of Decision (EPA Region 2): Naval Air Engineering Center Operable Unit 24 (Area K Ground-water), Lakehurst, NJ., July 7, 1997. PB97-963808REB 98-03 PC A04/MF A01

PB97-963809REB

Superfund Record of Decision (EPA Region 2): Federal Aviation Administration Technical Center, (Areas A, J, and N), Attantic County, NJ., July 21, 1997.
PB97-963809REB 98-03 PC A05/MF A01

PB97-963810REB

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (site A), Operable Unit 1, Cotts Neck, NJ, September 25, 1997. PB97-963810REB 98-03 PC A06/MF A02

PB97-963811REB

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 2, Colts Neck, NJ., September 25, 1997. PB97-963811REB 98-03 PC A06/MF A01

PB97-963812REB

Supertund Record of Decision (EPA Region 2): Global Sanitary Landfill Operable Unit 2, Old Bridge Township, NJ., September 29, 1997.
PB97-963812REB 98-03 PC A07/MF A02

PB97-963813REB

Superfund Record of Decision (EPA Region 2): Higgins Disposal Site Operable Unit 1, Kingston, NJ., September 30, 1997. 98-03 PC A10/MF A02 P897-963813REB

PR97-983814RFR

Superfund Record of Decision (EPA Region 2): Janssen Inc., Operable Unit 1, Gurabo, PR., September 30, 1997. PB97-963814REB 98-03 PC A06/MF A01

PB97-963815REB

Superfund Explanation of Significant Difference for the Record of Decison (EPA Region 2): Curcio Scrap Metal Inc., Operable Unit 2, Saddle Brook, NJ., September 30, 1997.

PB97-963815REB

PB97-963816REB Superfund Record of Decision (EPA Region 2): Pollution Abatement Services, Operable Unit 4, Oswego, NY., September 30, 1997. 98-03 PC A06/MF A01

98-03 PC A06/MF A01

98-03 PC A07/MF A02

PB97-963817REB

Superfund Record of Decision (EPA Region 2): Richardson Hill Road Landfill/Pond, Sidney Center, NY., September 30, 1997

PB97-963817REB PB97-963818REB

Superfund Record of Decision (EPA Region 2): Naval Secu-rity Group Activity, Operable Unit 1 (Sites 2 and 4), Sabana Seca, PR., September 30, 1997. PB97-963818REB 98-03 PC A05/MF A01

PR97-963819REB

Superfund Record of Decision (EPA Region 2): Naval Security Group Activity, Operable Unit 3 (Sites 1 and 3), Sabana Seca, PR., September 30, 1997.
PB97-963819REB 98-03 PC A05/MF A01

PB97-963820REB

Superfund Record of Decision (EPA Region 2): Grand Street Mercury Site, Hoboken, NJ., September 30, 1997. PB97-963820REB 98-04 PC A99/MF A06

PB97-963821REB

Superfund Record of Decision (EPA Region 2): Vega Alta Public Supply Wells, Operable Unit 2, Vega Alta PR., September 30, 1997. PR97-963821RFB 98-03 PC A12/MF A03

PB97-963901REB

Superfund Record of Decision (EPA Region 3): Avco Lycoming/(Williamsport Division), Williamsport, PA., December 30, 1996. P897-963901REB 98-03 PC A03/MF A01

PB97-963902REB

Superfund record of Decision (EPA Region 3): Crossley Farm, (Hereford Groundwater), Hereford, PA., June 30, 1997 PB97-963902REB 98-03 PC A04/MF A01

PB97-963903REB

Superfund Record of Decision (EPA Region 3): Berks Land-fill, Spring Townshop, PA., July 22, 1997. PB97-963903REB 98-04 PC A08/MF A02

PB97-963904REB

Superfund Record of Decision (EPA Region 3): Jacks Creek/Sitkin Smelting and Refinery Inc., Site, Village of Maitland, PA., September 30, 1997.
PB97-963904REB 98-03 PC A06/MF A01

PB97-963905REB

Superfund Record of Decision (EPA Region 3): North Penn - Area 12, Worcester Township, PA., September 30, 1997. PB97-963905REB 98-03 PC A09/MF A02

PB97-963906RFR

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy), Operable Unit 1, Mineral, WV., February 12, 1997.
PB97-963906REB 98-03 PC A05/MF A01

PB97-963907REB

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Beach Point Test Site, Aberdeen Proving Ground, MD., September 24, 1997. PB97-963907REB 98-03 PC A05/MF A01

PB97-963908REB

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Watson Creek Sediment, O-Field Operable Unit, Aberdeen Proving Ground, MD, September 23, 1997.

PB97-963908REB 98-03 PC A05/MF A01

PB97-963909REB

Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Michaelsville Landfill), Aberdeen Proving Ground, MD., September 23, 1997.
PB97-963909REB 98-03 PC A04/MF A01

PB97-963910REB

Superfund Record of Decision (EPA Region 3): Marine Corps Combat Development Command (Site 4), Operable Unit 4, Quantico, VA., September 30, 1997. PB97-963910REB 98-03 PC A05/MF A01

PB97-963911REB

Superfund Record of Decision (EPA Region 3): Tobyhanna Army Depot, Operable Unit 1, Tobyhanna, PA., September 30, 1997. 98-03 PC A07/MF A02 PB97-963911REB

PB97-963912REB

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory, (USNavy), Operable Unit 3, Mineral, WV., May 29, 1997.
PB97-963912REB 98-03 PC A06/MF A01

PR97-963913REB

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (LF 13), Dover, DE., September 30, 1997. PB97-963913REB 98-03 PC A05/MF A01

PB97-963914REB

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (WP 14 and LF 15), Dover, DE., September 30, 1997

98-03 PC A05/MF A01 PB97-963914REB

PB97-963915REB

Superfund Record of Decision (EPA Region 3): Dover Air Force Base (FT 03), Dover, DE., September 30, 1997. PB97-963915REB 98-03 PC A05/MF A01 PB97-963915REB

P897-963916REB

Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas), Operable Unit 4, Warminster Township, PA., September 30, 1997. PB97-963916REB 98-04 PC A04/MF A01

PR97-963917REB

Superfund Record of Decision (EPA Region 3): Naval Sur-tace Warfare-Dahlgren Site 2, Dahlgren, VA., September 29, 1997, 98-03 PC A05/MF A01 PB97-963917REB

PB97-963918REB

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 12, Dahlgre, VA., September 30, 1997.

98-03 PC A05/MF A01 PB97-963918REB

PB97-963919REB

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Site 12, Operable Units 3, 4, and 5, Yorktown, VA., April 16, 1997. PB97-963919REB 98-03 PC A10/MF A03

PB97-964001REB

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation (US Navy), Operable Unit 7, Sites 1, 28, and 30, Onslow County, NC., October 9, 1996. PB97-984001REB 98-03 PC A07/MF A02

PB97-964002REB

Superfund Record of Decision (EPA Region 4): Escambia Wood - Pensacola (aka: Escambia Treating Company Site), Pensacola, FL., February 12, 1997. P897-964002REB 98-03 PC A04/MF A01

PB97-964003REB

Superfund Record of Decision (EPA Region 4): Townsend Saw Chain Co., Pontiac, SC., December 19, 1996. PB97-964003REB 98-03 PC A09/MF A02

PR97-964004RFR

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 6, (Area B) Study Areas 2, 10, 16, 17, and 22, Childersburg, AL., March 27, 1997 98-03 PC A05/MF A01

PB97-964004REB PB97-964005REB

Superfund Record of Decision (EPA Region 4): Alabama Army Ammunition Plant, Operable Unit 5, Childersburg, AL., March 27, 1997 98-03 PC A07/MF A02

PR97-964006REB Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 14, Aiken, SC., March 27 1997

PB97-964006REB 98-03 PC A05/MF A01

PB97-964007REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 5, Aiken, SC., March 27, 1997. PB97-964007REB 98-03 PC A03/MF A01

PB97-964008REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 4, Aiken, SC., March 27. 1997.

PB97-964008REB 98-03 PC A03/MF A01

PB97-964009REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 13, Aiken, SC., March 27 197 98-03 PC A05/MF A01 PB97-964009REB

PB97-964010REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 45, Aiken, SC., March 27, 1997. 98-03 PC A03/MF A01

PB97-964010REB

PB97-964011REB Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Operable Unit 15, Aiken, SC., March 27. 1997.

98-03 PC A04/MF A01 PB97-964011REB

PB97-964012REB

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 3 PSC 16 and PSC 17, Albany, GA., September 2, 1997. PB97-964012REB 98-03 PC A06/MF A01

PB97-964013REB

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 1 PSC 1, PSC 2, PSC 3, and PSC 26, Albany, GA., September 2, 1997. PB97-984013REB 98-03 PC A08/MF A02

PB97-964014REB

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), (Union Valley Upper East Fork Pop-lar Creek Characterization Area), Oak Ridge, TN., July 10, 1997 PB97-964014REB 98-03 PC A05/MF A01

PB97-964015REB

Reservation (USDOE) (Sludge Removal from the Gunite and Associated Tanks Operable Unit, Waste Area Grouping 1), Oak Ridge, TN., September 2, 1997.
PB97-964015REB 98-03 PC A04/MF A01

PB97-964016REB

Superfund Record of Decision (EPA Region 4): Sherwood Medical Industries, Operable Unit 3, Deland, FL, September 18, 1997. PB97-964016REB 98-03 PC A04/MF A01

PB97-964017REB

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Clinch River and Poplar Creek Op-erable Units, Oak Ridge, TN., September 23, 1997. PB97-964017REB 98-03 PC A05/MF A01 PB97-964017REB

PB97-954018REB

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) (Waste Area Group 17), Paducah, KY., September 29, 1997. P897-984018REB 98-03 PC A04/MF A01

PB97-964019REB

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL, September 30, 1997. PB97-964019REB 98-03 PC A04/MF A01

PB97-964020REB

Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., Septem-

PB97-964020REB 98-03 PC A06/MF A02 PB97-964021REB

Superfund Record of Decision (EPA Region 4): FCX Inc., (Washington Plant), Washington, NC., December 18, 1996. PB97-964021REB 98-03 PC A04/MF A01

PB97-964022REB

Superfund Record of Decision (EPA Region 4): Newsome Brothers/Old Reichhold Chemicals, Operable Unit 2, Columbia MS., August 8, 1997.
PB97-964022REB 98-03 PC A04/MF A01

PB97-964023REB

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 2 (Oak Ridge Y-12 Plant Bear Creek Valley), Oak Ridge, TN., January 23, 1997 PB97-964023REB

PB97-964024REB

98-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): North Belmont PCE Site, North Belmont, NC., September 24, 1997. PB97-964024REB 98-03 PC A09/MF A02

PB97-964025REB

Superfund Record of Decision (EPA Region 4): Savannah River Sitr (USDOE), Operable Unit 11, Central Shops Burning/Rubble Pit (631-6G) (U), Aiken, SC., May 14, 1997-964025REB 98-03 PC A04/MF A01

PB97-964027REB

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 10, Pensacola, FL, September 15, 1997.

PB97-964027REB 98-04 PC A08/MF A02

PB97-964028REB

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE), Operable Unit 14, Oak Ridge, TN., September 25, 1997. 98-03 PC A06/MF A02 PB97-964028REB

PR97-964029RFR

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 12 (Site 3), Onslow County, NC., May 15, 1997. PB97-964029REB 98-03 PC A08/MF A02

PB97-964030REB

Superfund Record of Decision (EPA Region 4): Camp LeJeune Military Reservation, Operable Unit 13 (Site 63), Onslow County, NC., May 15, 1997.
PB97-964030REB 98-03 PC A06/MF A01

PB97-964031REB

Superfund Record of Decision (EPA Region 4): Savanah River Site (USDOE), Operable Unit 17 L-Area Oil and Chemical Basin (904-83G) and L-Area Acid Caustic Basin (904-79G), Aiken, SC., September 30, 1997. 98-03 PC A07/MF A02 PR97-964031RFR

PB97-964032REB

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 16, Old F Area Seepage Basin (904-49G), Aiken, SC., May 14, 1997. P897-964032REB 98-03 PC A05/MF A01

PR97-964101RFR

Superfund Record of Decision (EPA Region 5): Reilly Tar and Chemical Company Site, (Dover Plant), Dover, OH., March 31, 1997. PB97-964101REB 98-04 PC A08/MF A02

PR97-964102REB

Superfund Record of Decision (EPA Region 5): Organic Chemicals, Inc., Operable Unit 2, Grandville, Ml., February PB97-964102REB 98-04 PC A06/MF A01

PB97-964103REB

Superfund Record of Decision (EPA Region 5): Reilley Tar and Chemical (Indianapolis Plant), Operable Unit 5, Indianapolis, IN., June 30, 1997.
PB97-964103REB 98-03 PC A05/MF A01

PB97-964104REB Superfund Record of Decision (EPA Region 5): Parsons Chemical Works, Inc., Grand Ledge, Ml., September 30,

1997. PB97-964104REB 98-03 PC A06/MF A01

PR97-964105RFR

Superfund Record of Decision (EPA Region 5): Tippecanoe Sanitary Landfill, Inc., Lafayette, IN., September 30, 1997. PB97-964105REB 98-03 PC A05/MF A01

PR97-964106REB

Superfund Record of Decision (EPA Region 5): Tomah Armory Landfill, Tomah, WI., September 23, 1997.
PB97-964106REB 98-03 PC A05/MF A01

PB97-964107REB

Superfund Record of Decision (EPA Region 5): Tomah Municipal Sanitary Landfill, Tomah, WI., September 25, 1997. PB97-964107REB 98-03 PC A05/MF A01

PB97-964108REB

Superfund Record of Decision (EPA Region 5): South Point Plant Site, South Point, OH., September 26, 1997. PB97-964108REB 98-03 PC A05/MF A01

PB97-964109REB

Superfund Record of Decision (EPA Region 5): Marion (Bragg) Dump Site, Operable Units 2 and 3, Marion, IN., September 30, 1997.
PB97-964109REB 98-03 PC A05/MF A01

PR97-964110REB

Superfund Record of Decision (EPA Region 5): Wright-Patterson Air Force Base, Operable Unit 2, Dayton, OH., Ssptember 30, 1997.

98-03 PC A05/MF A01 PB97-964110REB

PB97-964111REB

Superfund Record of Decision (EPA Region 5): J and L Landfill, Operable Unit 2, Rochester Hills, Ml., September 30, 1997. PB97-964111REB 98-03 PC A06/MF A01

PR97-964112RFR

#897-964112/REB
Superfund Record of Decision (EPA Region 5): Scrap Processing Co., Inc., Medford, WI., September 30, 1997.
PR97-964112REB 98-03 PC A05/MF A01

PB97-964113REB

Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 2, Ashtabuta, OH., September 29, 1997. PB97-964113REB 98-03 PC A08/MF A02

DR07-964114RFR

Superfund Record of Decision (EPA Region 5): Fields Brook Site, Operable Unit 4, Astabula, OH., June 30, 1997. PB97-964114REB 98-03 PC A08/MF A02

PB97-964115REB

Superfund Record of Decision (EPA Region 5): Bendix Corp/Allied Automotive, St. Joseph, Mt., September 30, 1997. PB97-964115REB 98-03 PC A06/MF A01

PR97-964116REB Superfund Record of Decision (EPA Region 5): Sangamo Electric/Crab Orchard National Wildlife Refuge, Carterville, RL., February 19, 1997.
PB97-964116REB 98-03 PC A07/MF A02

PB97-964117REB

Superfund Record of Decision (EPA Region 5): Roto-Finish Co., Inc., Kalamazoo, Ml., March 31, 1997. Co., Inc., Kalamazi PB97-964117REB 96-03 PC A06/MF A01

PR07-064118REB

Superfund Record of Decision (EPA Region 5): Madison Metropolitan Sewerage District, Blooming Grove, WI., Merch 31 1997 98-03 PC A05/MF A01 PB97-964118REB

PR97-964201REB

Superfund Record of Decision (EPA Region 6): Louisiana Army Ammunition Plant, Soil Source Operable Unit, Doyline, LA., March 4, 1997.
PB97-964201REB 98-03 PC A05/MF A01

PB97-064202REB

Superfund Record of Decision (EPA Region 6): National Zinc Corp., Operable Unit 2, Bartlesville, OK., October 2, 1997 PB97-964202RFB 98-03 PC A04/MF A01

PB97-964203REB

Superfund Record of Decision (EPA Region 6): Southern Shipbuilding Corp., Operable Unit 2, Slidell, LA., September 15 1997. PB97-964203REB 98-03 PC A07/MF A02

PB97-964204REB

Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 3, Dalas, TX., September 30, 1997. PB97-964204REB 98-04 PC A12/MF A03

PR97-064205REB

Superfund Record of Decision (EPA Region 6): RSR Corp., Operable Unit 4 (Groundwater) and Operable Unit 5, Dallas, TX., April 3, 1997. TX., April 3, 1997. PB97-964205REB 98-03 PC A09/MF A02

PR07-064206REB

Superfund Record of Decision (EPA Region 6): Tar Creek (Ottawe County), Operable Unit 2, Ottawa County, OK., August 27, 1997.
PB97-964206REB 98-03 PC A13/MF A03

PR07-064207RFB

Superfund Record of Decision (EPA Region 9): Agriculture Street Landfilt, Operable Unit 4 and 5, New Orleans, LA., September 2, 1997.
PB97-964207REB 96-03 PC A12/MF A03

PR97-964301REB

Superfund Record of Decision (EPA Region 7): Des Moines TCE, Operable Units 2 and 4, Des Moines, IA., December 13, 1996. 98-03 PC A05/MF A01 PR97-964301REB

PB97-964302REB

Superfund Record of Decision (EPA Region 7): Cherokee County (Bauter Springs and Treece Subsites), Operable Unit 3/4, Cherokee County, KS., August 20, 1997. PB97-96/302/REB 98-03 PC A12/MF A03

PB97-964303REB

Superfund Record of Decision (EPA Region 7): Fort Riley Pesticide Storage Facility, Operable Unit 2, Junction City, KS., September 29, 1997. 98-03 PC A05/MF A01 PR97-964303REB

PB97-964304REB

Superfund Record of Decision (EPA Region 7): Nebraska Ordnance Plant (Former), Operable Unit 2, Mead, NE., April 7, 1997. PB97-964304REB 98-03 PC A06MF A01

DRGT-AGANGRER

Superfund Record of Decision (EPA Region 7): Bee Cee Menufacturing Co., Maiden, MO., September 30, 1997. PB97-964305REB 98-03 PC A05/MF A01

PB97-964401REB

Superfund Record of Decision (EPA Region 8): Ellsworth Air Force Base, Operable Unit 11, Ellsworth Air Force Base, SD., April 28, 1997.

98-03 PC A06/MF A01 PB97-964401REB

PR97-964402REB

Superfund Record of Decision (EPA Region 8): California Guich, Operable Unit 10, Leadville, CO., August 8, 1997. PB97-964402REB 98-03 PC A08/MF A02

PR97-984403RFR

Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 8, Cgehyenne, WY., November 21, 1997.

PB97-964403REB 98-04 PC A04/MF A01

PROT-964404RER

Superfund Record of Decision (EPA Region 8): F E Warren Air Force Base, Operable Unit 2, Cheyenne, WY., September 30, 1997.
PB97-964404REB 98-03 PC A04/MF A01

PB97-964405REB

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 1, Golden, CO., February 27, 1997. PB97-964405REB 98-03 PC A04/MF A01

PB97-964406REB

Superfund Record of Decision (EPA Region 8): Rocky Flats Plant (USDOE), Operable Unit 3, Golden, CO., June 3,

PB97-964406REB 98-03 PC A04/MF A01

PR97-964407REB

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 6, Ogden, UT., September 30, 1997 PB97-964407REB 98-03 PC A07/MF A02

PB97-964406REB

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 8, Ogden UT., September 30, PR97-964408REB 98-03 PC A07/MF A02

PR97-984501RFR

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 3, Oahu, Hl., November 8, 1996. PB97-964501REB 98-03 PC A09/MF A02

PB97-964502REB

Superfund Record of Decision (EPA Region 9): Schofield Barracks (US Army), Operable Unit 2, Oahu, HI., February PB97-964502REB 98-03 PC A07/MF A02

PB97-964503REB

Superfund Record of Decision (EPA Region 9): Fort Ord (Basewide Remedial Investigation Sites), Marina, CA., January 17, 1997. PR97-964503REB 98-03 PC A05/MF A01

PRO7-064504RFR

Superfund Record of Decision (EPA Region 9): Fort Ord (Beach Trainfire Ranges) (Site 3), Marina, CA., January 17, 1997. PB97-964504REB

98-03 PC A04/MF A01

PB97-964505REB

Superfund Record of Decision (EPA Region 9): Lawrence Livermore Laboratory (USDOE), Operable Unit 1, Liver-more, CA, January 29, 1997. PB97-964505REB 98-03 PC A08/MF A02

PB97-964506REB

Superfund Record of Decision (EPA Region 9): Western Pacific Railroad Company, Oroville, CA., September 30, 1997 98-03 PC A05/MF A01 PB97-964506REB

PB97-964507REB

Superfund Record of Decision (EPA Region 9): Moffett Naval Air Station, Operable Unit 1, Sunnyvale, CA., August 14, 1997. PB97-964507REB 98-04 PC A11/MF A03

PR97-964508REB

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 3 and 4, Barstow, CA., June 3, 1997.
PB97-964508REB 98-04 PC A18/MF A04

P897-964509REB

Superfund Record of Decision (EPA Region 9): Del Amo Facility Waste Pits Operable Unit, Los Angeles, CA., September 5, 1997. P897-964509REB 98-04 PC A15/MF A03

PB97-964510REB

Superfund Record of Decision (EPA Region 9): Iron Mountain Mine, Redding, CA., September 30, 1997.
PB97-964510REB 98-04 PC A07/MF A02

PR97-964511REB

Superfund Record of Decision (EPA Region 9): Modesto Groundwater Contamination, Modesto, CA., September 26, 1997 98-03 PC A08/MF A02

PB97-964511REB PR97-964512REB

Superfund Record of Decision (EPA Region 9): Castle Air Force Base, Merced, CA., May 21, 1997. PB97-964512REB 98-04 PC A12/MF A03

PB97-964513REB

Superfund Record of Decision (EPA Region 9): El Toro Marine Corps Air Station, Operable Units 2A and 3A (No Action Sites), El Toro, CA., September 29, 1997.
PB97-964513REB 98-04 PC A10/MF A02

PB97-964514REB

Superfund Record of Decision (EPA Region 9): El Toro Ma-rine Corps Air Station, Operable Unit 2A (Site 24-VOC Source Area Vadose Zone), El Toro, CA., September 29, 98-04 PC A11/MF A03

PB97-964514REB PB97-964515REB

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area (Volume 1 and 2), Tucson, AZ., September 30, 1997.
PB97-964515REB 98-03 PC A14/MF A03

PB97-964516REB

Superfund Record of Decision (EPA Region 9): Camp Pendleton Marine Coprs Base, Operable Unit 2, San Diego, CA, September 30, 1997.
PB97-964516REB 98-04 PC A15/MF A03

PB97-964517REB

Superfund Record of Decision (EPA Region 9): Norton Air Force Base, Operable Unit 3, Site 19 Waste Drum Storage Area No. 1, San Bernardino, CA., June 25, 1997. PB97-984517REB 98-03 PC A05/MF A01

PR07-064601RFR

Superfund Record of Decision (EPA Region 10): Harbor Island (Lead), The Shipyard Sediment Operable Unit, Seattle, WA., November 27, 1996.
PB97-964601REB 98-04 PC A06/MF A01

PR97-964602REB Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit A) (aka: Bremerton Naval Complex), Bremerton, WA., January 24,

1997. PB97-964602REB GRUNA PC ANRIVATI AND

PB97-964603REB

Superfund Record of Decision (EPA Region 10): Puget Sound Naval Shipyard Complex, (Operable Unit NSC) (aka: Bremerton Naval Complex), Bremerton, WA., December 13, PB97-964603REB 98-04 PC A07/MF A02

PB97-964604REB

Superfund Record of Decision (EPA Region 10): Hanford 200 Area (USDOE), (200-UP-1 Operable Unit), Benton County, WA., February 11, 1997. PB97-964604REB 98-04 PC A06/MF A01

PB97-964605REB

Superfund Record of Decision (EPA Region 10): Monsanto Chemical Co. (Soda Springs), Soda Springs, ID., April 30, 1997.

PB97-964605REB 98-04 PC A07/MF A02

PB97-964606REB

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SAB Report: Review of the Surface Impoundments Study (SIS) Plan. Review of the Office of Solid Waste's Proposed Surface Impoundment Study by the Environmental Engineering Committee neering Committee PB98-169303REB 98-04 PC A04/MF A01

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PB98-169766REB 98-04 PC ANA/MF Ant

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For Immediate Release

For additional information contact:
Renee Edwards, Public Affairs Director (703) 605-6400
redwards@ntis.fedworld.gov

Latest Environmental Protection Agency Update Describes Clean Up Needs

Numerous Business Opportunities Outlined in New Report at NTIS

Nearly a quarter of a million U. S. sites with potential contamination from hazardous waste and petroleum products are identified in a new report from EPA's Office of Solid Waste and Emergency Response. The study, Cleaning Up the Nation's Waste Sites: Markets and Technology Trends, is available from the National Technical Information Service.

Invaluable information on site characteristics, market size, and other factors is backed by liberal use of charts for quick grasp of demand. The estimated cost for all future work is about \$187 million or higher.

According to the study, it will take several decades of planned investment from federal, state, and local government agencies and private industry to meet the continuing demand for site remediation services and technologies. But, with information provided in the report, technology vendors, developers and investors, and government officials can assess the demand for cleanup services. And, from that assessment, they may better identify business opportunities and plan technology research and development efforts.

The report covers all the major cleanup programs in the United States, including:

- Superfund
- Underground storage tanks
- U.S. Departments of Defense and Energy
- Resource Conservation and Recovery Act (RCRA)
- State programs
- Many others

In addition to updating the previous issue, the report includes significant new information on cleanup needs related to underground storage tanks, RCRA corrective actions, and sites administered by DOD, DOE, and other federal agencies.

Cleaning Up the Nation's Waste Sites: Markets and Technology Trends is available from NTIS, 1-800-553-NTIS (6847), for \$44 plus \$4 handling fee, no additional charge for shipping; quote order number PB96-178041KLS. Most major credit cards accepted. Order via e-mail: orders@ntis.fedworld.gov. Fax order to: (703) 321-8547.

Access information on more than 500,000 government information products on the new NTIS Web site: http://www.ntis.gov. Find related products on *OrderNow*TM, our ordering system on the World Wide Web-http://www.ntis.gov/ordernow/.

Product Announcement



For Immediate Release

For additional information contact: Renee Edwards, Public Affairs Director (703) 605-6400 redwards@ntis.fedworld.gov

EPA's Solid Waste Test Methods on CD-ROM

Official SW-846 Product Contains Latest Update

The National Technical Information Service has just made available the Environment Protection Agency's official CD-ROM version of SW-846 methods. This valuable information product provides test procedures and guidance, recommended by EPA's Office of Solid Waste, to conduct evaluations and measurements required by the Resource Conservation and Recovery Act.

The material includes procedures for (1) field and laboratory quality control, (2) sampling,

- (3) determining hazardous constituents in wastes, (4) determining hazardous characteristics of wastes, and
- (5) determining physical properties of wastes.

The CD-ROM contains the very latest EPA information, the Third Edition Basic Manual with Final Updates I, II, IIA, IIB, and III already integrated. User-friendly with many search choices, the CD allows the operator to:

- search by chemical name, CAS number, method number, or keyword to find suitable methods;
- cut and paste text, diagrams, and flow charts to update standard operating procedures in your own word processor;
- use the new Analyte to Cross-reference Table to select recommended methods by chemical name.

SW-846 Version 2.0 on CD-ROM (Integrated Updates Through III) is available from NTIS, 1-800-553-NTIS (6847) for \$125 plus \$4 handling fee for a single user, PB97-501928KLY; \$320 plus \$4 handling fee for 5 LAN users, PB97-502512KLY; \$1,250 plus \$4 handling fee for unlimited users, PB97-502520KLY. There are no additional charges for shipping. Most major credit cards accepted. Order via e:mail: orders@ntis.fedworld.gov. Fax order to: (703) 321-8547.

Access information on more than 500,000 government information products on the new NTIS Web site: http://www.ntis.gov. Find related products on *OrderNow*[®], our ordering system on the World Wide Web - http://www.ntis.gov/ordernow/.

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A16\$120.00	\$150.00	E16\$156.00
A17\$124.00	\$155.00	E17\$170.00
A18\$131.00	\$164.00	E18\$182.00
A19\$135.00	\$169.00	E19\$202.00
A20\$139.00		E20\$232.00
A21\$143.00	\$179.00	E99Contact NTIS
A22\$154.00	\$193.00	
A23\$158.00		<u>"N" Codes</u>
A24\$162.00		N01\$85.00
A25\$166.00		N02\$75.00
A99	Contact NTIS	N03\$50.00

*A01 for standard microfiche is \$24.00; \$30.00 for out-of-print microfiche.
*A02 for standard microfiche is \$34.00; \$42.00 for out-of-print microfiche.

TO1

Computer Products

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D02	\$ 224.00	T02\$ 610.00
D03	\$ 350.00	T03\$ 908.00
	\$ 488.00	T04\$1,208.00
D05	\$ 626.00	T05\$1,484.00
D06	\$ 740.00	T06\$1,782.00
D07	\$ 902.00	T07\$2,058.00
	\$1,016.00	To8\$2,358.00
	\$1,132.00	To9\$2,634.00
D10	\$1,292.00	T10\$2,910.00
D11	\$1,408.00	T11\$3,186.00
	\$1,568.00	T12\$3,484.00
	\$1,706.00	T13\$3,760.00
D14	\$1,844.00	T14\$4,060.00
D15	\$1,960.00	T15\$4,358.00
	\$2,074.00	T16\$4,634.00
	\$2,212.00	T17\$4,888.00
	\$2,350.00	T18\$5,210.00
	\$2,488.00	T19\$5,486.00
	Contact NTIS	T99Contact NTIS

Out-of-Print Surcharge

Standard A-code priced documents announced by NTIS over 3 years ago are subject to a 25% out-of print surcharge. The out-of-print price for such items is shown to the right of the standard price in these price schedules. Frequently, these reports have an NTIS order number of 94 or earlier (e.g., N94-xxxx; PB93-xxxx; etc.). If the NTIS order number for an A-code priced report does not show an identifiable year (e.g., most AD-prefixed items), contact the NTIS Sales Desk 1-800-553-NTIS (6847) or (703) 605-6000 or fax (703) 321-8547 for the correct price.

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Product Announcement



For Immediate Release

For additional information contact: Renee Edwards, Public Affairs Director (703) 605-6400 redwards@ntis.fedworld.gov

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