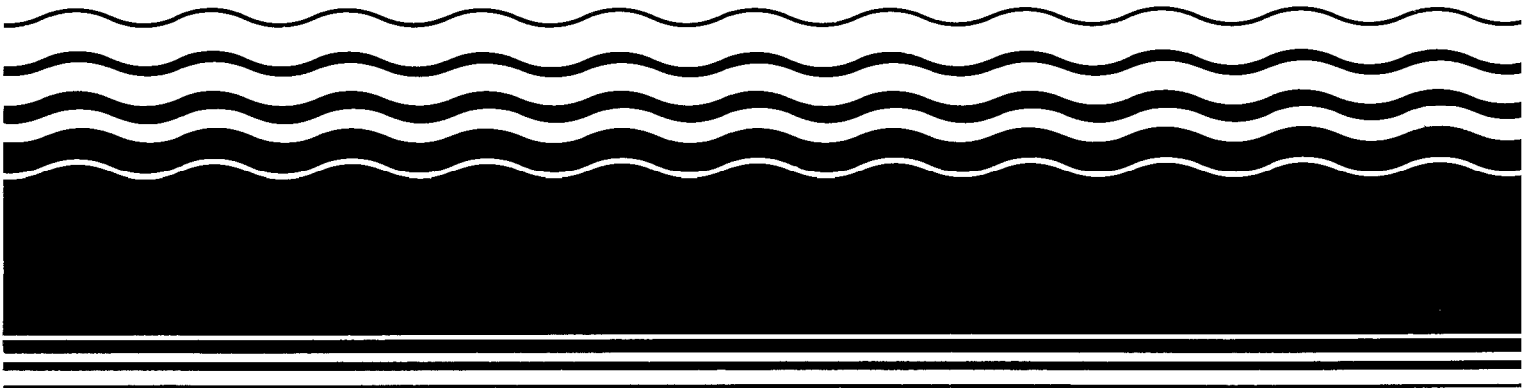

Superfund



Hazardous Waste Bibliography



EPA/540/I-87/001
(OSWER DIRECTIVE 9380.1-02)

HAZARDOUS WASTE BIBLIOGRAPHY

October 1987

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

U.S. Environmental Protection Agency
Office of Solid Waste and Emergency Response
Washington, D.C.

NOTICE

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OCT 9 1987

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

OSWER DIRECTIVE 9380.1-02

This Hazardous Waste Bibliography has been prepared in response to numerous requests for a list of EPA documents relating to the clean-up of hazardous waste sites. We have tried not to duplicate the Office of Solid Waste and Emergency Response (OSWER) Directives list or the EPA library's Hazardous Waste Collection data base. Rather, this ongoing effort, begun by the Technology Transfer Task Force, is to collect technical materials that should be available to all Federal and State hazardous waste staffs and their libraries.

The OSWER program offices and the Office of Research and Development (ORD) were asked to submit a list of technical and procedural documents relevant to their program's mission. The program offices then culled from the lists those documents they considered most helpful in carrying out their mission. The result is what we hope are the most relevant technical and procedural documents that have been produced by the hazardous waste program offices and supporting ORD laboratories.

Keeping the bibliography up-to-date will be a challenge. The Technology Staff in the Office of Program Management and Technology will be responsible for updating the bibliography. We encourage you, the user, to contact us with your comments for improving this product.

Thomas W. Devine, Director
Office of Program Management
and Technology

OSWER DIRECTIVE 9380.1-02

TABLE OF CONTENTS

TRANSMITTAL MEMO	iii
USER'S GUIDE	1
BIBLIOGRAPHY	
A LIST	
A. SITE ASSESSMENT - TECHNICAL AND GUIDANCE DOCUMENTS ON METHODS TO CHARACTERIZE HAZARDOUS WASTE SITES AND HAZARDOUS MATERIALS	5
B. FATE AND TRANSPORT - TECHNICAL REFERENCES ON PROCESSES AFFECTING THE MOVEMENT AND PERSISTENCE OF CONTAMINANTS IN THE ENVIRONMENT AND METHODS TO ANALYZE AND PREDICT THEIR DISTRIBUTION	7
C. MONITORING AND SAMPLING - METHODS TO PLAN AND EXECUTE FIELD STUDIES AT HAZARDOUS WASTE SITES	8
D. SOURCE CONTROL : ALTERNATIVE TREATMENT TECHNOLOGIES - GUIDANCE DOCUMENTS ON PLANNING SOURCE CONTROL REMEDIAL ACTIONS AND TECHNICAL REFERENCES ON TREATMENT TECHNOLOGIES	11
E. SOURCE CONTROL: STORAGE LAND DISPOSAL - GUIDANCE DOCUMENTS ON PLANNING SOURCE CONTROL REMEDIAL ACTIONS, AND TECHNICAL REFERENCES ON CONTAINMENT TECHNOLOGIES	15
F. GROUND WATER REMEDIATION - DOCUMENTS ON PLANNING GROUNDWATER REMEDIAL ACTIONS AND TECHNICAL REFERENCES ON COLLECTION, CONTAINMENT, AND TREATMENT TECHNOLOGIES	17

G. RISK/ENDANGERMENT ASSESSMENT - TECHNICAL AND GUIDANCE DOCUMENTS ON CONDUCTING RISK ASSESSMENTS AT HAZARDOUS WASTE SITES	18
H. PERSONNEL PROTECTION - GUIDANCE AND TECHNICAL DOCUMENTS ON HEALTH AND SAFETY PLANNING AND IMPLEMENTATION FOR WORKERS ON HAZARDOUS WASTE SITES	19
I. CONSTRUCTION TECHNIQUES PROCEDURES - GUIDANCE AND TECHNICAL REFERENCES ON PLANNING AND IMPLEMENTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES	21
J. PROGRAM GUIDANCE - GUIDANCE DOCUMENTS ON CONDUCTING AND MANAGING, PLANNING AND CONSTRUCTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES	24
K. CASE STUDIES - CASE STUDIES OF REMEDIAL RESPONSES AT HAZARDOUS WASTE SITES	28
L. COSTS - DOCUMENTS ON THE PROCEDURES FOR COSTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES AND HISTORICAL INFORMATION ON UNIT COSTS	29
B LIST	30
C LIST	41

USER'S GUIDE

This technical bibliography was developed for use by the Regional Superfund staff, Superfund contractors, the RCRA Corrective Action Program, and States. It does not include all EPA hazardous waste documents. Rather, EPA Headquarters' program offices identified those technical and procedural documents considered most useful and relevant to carrying out the mission of cleaning up hazardous waste sites. The bibliography is divided into four lists:

"A Prime" List

a number of documents within the "A" list are highlighted with a "star," indicating that they are the most critically important items in the entire bibliography.

"A" List

these documents contain information that is essential to the RPM's and OSC's performance; items on this list are the most frequently used documents and, therefore, should be readily available to RPMs and OSCs.

"B" List

these documents contain useful information but are consulted less frequently. Every RPM and OSC should have access to these documents, but not necessarily within his or her own office. EPA regional libraries should be able to obtain copies of these documents when requested. .

"C" List

these documents are still in preparation but are considered likely to be useful; as the bibliography is updated periodically, items on the C list will be transferred to the other lists as appropriate.

HOW TO USE THE BIBLIOGRAPHY

The bibliography presents information in four fields:

- Title complete title of document
- Date Issued date of publication
- Issuing Office organization responsible for developing the document
- Ordering Information identifies where the documents can be obtained

The documents in the A list have been arranged into 12 categories; the same document may be listed under several categories. Within the "A" list, an additional field "Abstract" has been included. The abstracts were written by the EPA Headquarters Library staff as part of the development and implementation of the EPA library network's special Hazardous Waste Collection.

OSWER DIRECTIVE 9380 1-02

- A. Site Assessment
- B. Fate and Transport
- C. Monitoring and Sampling
- D. Source Control-- Alternative Treatment Technologies
- E. Source Control--Storage/Land Disposal
- F. Groundwater Remediation
- G. Technical and Guidance Documents
- H. Personnel Protection
- I. Construction Techniques/Procedures
- J. Program Guidance
- K. Case Studies
- L. Costs

Each item on the "A" list will be available through the Hazardous Waste Collection in either a hard or microfiche copy in the EPA Headquarters and regional libraries as well as the following laboratory libraries: Edison, New Jersey; RTP, North Carolina; Cincinnati, Ohio; Ada, Oklahoma; Las Vegas, Nevada; NEIC, Denver, Colorado. The Hazardous Waste Collection also includes OSWER policy and guidance directives, books, and non-EPA materials on hazardous waste issues. The entire Collection is accessible through the Hazardous Waste Collection database, using an IBM PC AT.

Region	Location	Name	FTS Telephone
I	Boston	Eileen Hahnen	835-3698
II	New York	Sam Gianti	264-7508
III	Philadelphia	Joanne McKernan	597-8182
IV	Atlanta	George Harlow	257-3454
V	Chicago	David Segal	886-1422
VI	Dallas	Joanne Miller	255-6740
VII	Kansas City	Chilton McLaughlin	757-2852
VIII	Denver	Rose Evans	564-1720
IX	San Francisco	Cindy McCormack	974-7460
X	Seattle	Julie McLean	399-1905

OSWER DIRECTIVE 9380 1-02

For documents that are not available from the library, contact the appropriate agency (from the "Ordering Information" field), as follows:

For OSWER Directives numbered 9200-9399

Superfund Directives
U.S. EPA (WH 548-D)
Washington, D.C. 20460

National Technical Information Service (NTIS)

Ravensworth Building
Springfield, Virginia, 22161
703 487-4600

Government Printing Office, Superintendent of Documents

U.S. Government Printing Office
Washington, D.C. 20402
202 783-3238

EPA Document Number

Center for Environmental Research Information
ORD Publications
26 W Martin Luther King Drive
Cincinnati, Ohio 45268
513 569-7562

SW or OSW Document Number

OSW Publications
U.S. EPA (WH 562)
401 M Street, SW
Washington, D.C. 20460
202/382-3000, (for FTS dial 8-382 and extension)

UPDATES OF BIBLIOGRAPHY

Updates of the bibliography will occur twice a year. Please contact Jane Powers, Technology Staff, Office of Program Management and Technology, at 202 382-4668, FTS 382-4668 to point out any changes that would improve the bibliography. Feedback from users will play an important role in increasing the value of this tool.

ACRONYMS AND ABBREVIATIONS

Major acronyms and abbreviations used in the bibliography are listed below.

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERI	Center for Environmental Research Information
EMSL	Environmental Monitoring Systems Laboratory
ERD	Emergency Response Division
ERT	Environmental Response Team
GPO	Government Printing Office
HELP	Hydrologic Evaluation of Landfill Performance
HRSD	Hazardous Response Support Division (now the Hazardous Site Evaluation Division)
HSCD	Hazardous Site Control Division
HWERL	Hazardous Waste Engineering Research Laboratory/Cincinnati
LDR	Land Disposal Restrictions
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NTIS	National Technical Information Service
OERR	Office of Emergency and Remedial Response (Superfund)
OPM	Office of Program Management
ORD	Office of Research and Development
OSW	Office of Solid Waste
OSWER	Office of Solid Waste and Emergency Response
OWPE	Office of Waste Programs Enforcement
OWWM	Office of Wastewater Management
RCRA	Resource Conservation and Recovery Act
RSKERL	Robert S. Kerr Environmental Research Laboratory Ada, Oklahoma
TOT	Time to Travel
USATHAMA	United States Army Toxic and Hazardous Waste Materials Agency
WERL	Water Engineering Research Laboratory

A LIST**A. SITE ASSESSMENT - TECHNICAL AND GUIDANCE DOCUMENTS ON METHODS TO CHARACTERIZE HAZARDOUS WASTE SITES AND HAZARDOUS MATERIALS****Data Quality Objectives: Development Guidance for Uncontrolled Hazardous Waste Site Remedial Response Activities**

Date Issued	10-86
Issuing Office	EPA OERR HSCD, Washington, D C
Ordering Information	EPA REPORT # N/A NTIS REF # N A OSWER DIRECTIVE 9355 0-07A
Abstract	Provides guidance in development of data quality objectives (DQOS) for remedial response under CERCLA. Includes remedial investigations (RI), feasibility studies (FS), remedial design (RD), and remedial action (RA). Supersedes 9355 0-7

Design and Development of Hazardous Waste Reactivity Testing Protocol

Date Issued	2-84
Issuing Office	EPA/ORD/HWERL, Cincinnati, OH
Ordering Information	EPA REPORT # 600/2-84-057 NTIS REF # PB-84-158-807
Abstract	Describes test protocol for determining the gross chemical composition of waste materials at uncontrolled hazardous waste sites. Includes a field test kit, flow diagrams, descriptive manual, and mixing device to observe effects of mixing two hazardous wastes.

★ Guidance on Feasibility Studies Under CERCLA

Date Issued	6-85
Issuing Office	EPA/OSWER/OWPE, Washington, D.C.
Ordering Information	EPA REPORT # 540/G-85/003 NTIS REF. # PB-85-238-590 OSWER DIRECTIVE 9355 0-05C

Abstract	Guide providing detailed structure for identifying, evaluating, and selecting remedial action alternatives under CERCLA and the National Contingency Plan (NCP)
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★ **Guidance on Remedial Investigations Under CERCLA**

Date Issued	1985
Issuing Office	EPA OSWER HWERL, Cincinnati, OH
Ordering Information	EPA REPORT # 540.6-85/002 NTIS REF # PB-85-238616 OSWER DIRECTIVE 9355 0-06B

Abstract	Provides guidance on conduct of remedial investigations in support of feasibility studies under Superfund and National Contingency Plan, describes steps in remedial investigation process, and identifies important factors, information, and analysis needs
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Handbook for Evaluating Remedial Action Technology Plans (Final Report Oct 81- Jun 82)

Date Issued	8 83
Issuing Office	EPA ORD WERL, Cincinnati OH
Ordering Information	EPA REPORT # 600 2-83-076 NTIS REF # PB-84-118-249

Abstract	Contains information on over 50 remedial action technologies
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Handbook, Remedial Action at Waste Disposal Sites, Revised

Date Issued	10 85
Issuing Office	EPA OSWER OERR/HWERL, Cincinnati, OH
Ordering Information	EPA REPORT # 625.6-85-006 NTIS REF # PB-87-201-034 OSWER DIRECTIVE 9380-0-4

Abstract	Overview of remedial investigation/feasibility study process as outlined in the National Contingency Plan. Describes specific remedial technologies including application and limitations, design, construction, implementation, operation, and selection
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Modeling Remedial Actions at Uncontrolled Hazardous Waste Sites

Date Issued	4 85
Issuing Office	EPA ORD ERL, Athens, GA
Ordering Information	EPA REPORT # 540/2-85-001 NTIS REF # PB-85-211-357 OSWER DIRECTIVE 9355.0-08

Abstract	Selection and use of models to evaluate effectiveness of remedial actions at uncontrolled hazardous waste sites. Guidelines to regulatory officials for incorporating models into remedial action planning process at Federal and State sites
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Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods 3rd Edition

Date Issued	11 86
Issuing Office	EPA OSWER, Washington, D C.
Ordering Information	EPA REPORT # SW-846 NTIS REF # N/A GPO REFERENCE # 955-001-00000-1

Abstract	Manual for test procedures used to evaluate solid waste to determine if hazardous according to RCRA Vol. 1A-1C laboratory manual, Vol. 2 field manual lists methods for collecting samples, determining reactivity, ignitability, composition, and mobility.
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B. FATE AND TRANSPORT - TECHNICAL REFERENCES ON PROCESSES AFFECTING THE MOVEMENT AND PERSISTENCE OF CONTAMINANTS IN THE ENVIRONMENT AND METHODS TO ANALYZE AND PREDICT THEIR DISTRIBUTION

Modeling Remedial Actions at Uncontrolled Hazardous Waste Sites

Date Issued	4 85
Issuing Office	EPA ORD/HWERL, Cincinnati, OH

OSWER DIRECTIVE 9380 1-02

Ordering Information

EPA REPORT # 540/2-85-001
NTIS REF # PB-85-211-357
OSWER DIRECTIVE 9355 0-08

Abstract

Selection and use of models to evaluate effectiveness of remedial actions at uncontrolled hazardous waste sites. Guidelines to regulatory officials for incorporating models into remedial action planning process at Federal and State sites.

C. MONITORING AND SAMPLING - METHODS TO PLAN AND EXECUTE FIELD STUDIES AT HAZARDOUS WASTE SITES

Data Quality Objectives: Development Guidance for Uncontrolled Hazardous Waste Site Remedial Response Activities

Date Issued

10/86

Issuing Office

EPA OERR/HSCD, Washington, D C

Ordering Information

EPA REPORT # N/A
NTIS REF # N/A
OSWER DIRECTIVE 9355 0-07A

Abstract

Provides guidance in development of data quality objectives (DQOS) for remedial response under CERCLA. Includes remedial investigations (RI), feasibility studies (FS) remedial design (RD) and remedial actions (RA). Supersedes 9355 0-7

Design and Development of a Hazardous Waste Reactivity Testing Protocol

Date Issued

2/84

Issuing Office

EPA/ORD/HWERL, Cincinnati, OH

Ordering Information

EPA REPORT #600/2-84-057
NTIS REF. #PB-84-158-807

Abstract

Describes test protocol for determining the gross chemical composition of waste materials at uncontrolled hazardous waste sites. Includes a field test kit, flow diagrams, descriptive manual and mixing device to observe effects of mixing two hazardous wastes

Geophysical Methods for Locating Abandoned Wells

Date Issued	5/84
Issuing Office	EPA/ORD/EMSL, Las Vegas, NV
Ordering Information	EPA REPORT #600/4-84-065 NTIS REF #PB-84-212-711
Abstract	Joint Study with U S G S on feasibility of using geophysical methods to find abandoned wells containing steel casings. Magnetic methods promising effective electrical techniques may be used instead.

Geophysical Techniques for Sensing Buried Wastes and Waste Migration

Date Issued	1984
Issuing Office	EPA/ORD/EMSL, Las Vegas, NV
Ordering Information	EPA REPORT #600/7-84-064 NTIS REF #PB-84-198-449
Abstract	Describes six geophysical techniques for sensing buried waste migration

Practical Guide for Ground-water Sampling

Date Issued	9/85
Issuing Office	EPA/OSWER/ERL, Ada, OK
Ordering Information	EPA REPORT #600/2-85-104 NTIS REF #PB-86-137-304
Abstract	Contains information on lab and field testing of sampling materials and mechanisms. Emphasizes minimizing errors in sampling and analysis.

RCRA Ground-Water Monitoring Technical Enforcement Guidance Document

Date Issued	9/86
Issuing Office	EPA/OSW, Washington, D C.
Ordering Information	EPA REPORT #530/SW-86-055 NTIS REF #PB-87-107-751

OSWER DIRECTIVE 9380 1-02

Abstract Describes essential components of ground-water monitoring system which meets RCRA goals. To be used to evaluate and modify existing systems

Sediment Sampling Quality Assurance User's Guide

Date Issued 7/85

Issuing Office EPA/ORD/EMSL, Las Vegas, NV

Ordering Information EPA REPORT #600/4-85-048
NTIS REF. #PB-85-233-542

Abstract Overview of selected sediment models presented as foundation for stratification of study of regions and selection of locations for sampling sites, methods of sampling, sample preparation, and analyses. Discussion of rivers, lakes, and estuaries

Soil Sampling Quality Assurance User's Guide

Date Issued 5/84

Issuing Office EPA/ORD/EMSL, Las Vegas, NV

Ordering Information EPA REPORT #600/4-84-043
NTIS REF. #PB-84-198-621

Abstract Presents analyses of variance of soil monitoring data, methods of calculating numbers of soil samples, possible application of kriging and assignment of control limits to QA/QC data

Survey of Mobile Laboratory Capabilities and Configurations

Date Issued 1984

Issuing Office EPA/ORD/EMSL, Las Vegas, NV

Ordering Information EPA REPORT #600/X-84-170
NTIS REF. #N/A

Abstract Survey of articles, conference proceedings, and specialists to identify mobile laboratories, analytical capabilities in emergency and remedial response efforts. Includes design specifications

D. SOURCE CONTROL : ALTERNATIVE TREATMENT TECHNOLOGIES - GUIDANCE DOCUMENTS ON PLANNING SOURCE CONTROL REMEDIAL ACTIONS AND TECHNICAL REFERENCES ON TREATMENT TECHNOLOGIES

Data Quality Objectives: Development Guidance for Uncontrolled Hazardous Waste Site Remedial Response Activities

Date Issued	10/86
Issuing Office	EPA/OERR/HSCD, Washington, D.C.
Ordering Information	EPA REPORT #N/A NTIS REF #N/A OSWER DIRECTIVE 9355 0-07A
Abstract	Provides guidance in development of data quality objectives (DQOS) for remedial response under CERCLA. Includes remedial investigations (RI), feasibility studies (FS), remedial design (RD), and remedial actions (RA). Supersedes 9355 0-7.

Directory of Commercial Hazardous Waste Treatment and Recycling Facilities

Date Issued	12/85
Issuing Office	EPA/OSW, Washington, D.C.
Ordering Information	EPA REPORT #530 SW85-019 NTIS REF #PB-86-178-431
Abstract	List of commercial facilities that accept hazardous waste for treatment and/or recycling. Provides facility name, address, phone number, contract, categories of treatment, and types of waste managed.

Guidance Document for Cleanup of Surface Tank and Drum Sites

Date Issued	5/85
Issuing Office	EPA/OERR/HSCD, Washington, D.C.
Ordering Information	EPA REPORT #N/A NTIS REF #PB-87-110-672 OSWER DIRECTIVE 9380 0-03

OSWER DIRECTIVE 9380.1-02

Abstract	Designed to assist on-scene Federal, State, and local officials and private firms that plan and implement remedial actions at National Priorities List (NPL) sites
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**Guidance Manual for Research, Development, and Demonstration Permits Under 40 CFR
, Section 270.65**

Date Issued 7 86

Issuing Office EPA OSW, Washington, D C

Ordering Information

EPA REPORT #530-SW-86/008
NTIS REF. #PB-86-229-192
OSWER DIRECTIVE 9527 00.1A

Abstract	Provides information for RCRA permit applicants and EPA and State permit writers for preparing and processing RCRA permit applications for RCRA research, development, and demonstration permits
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Handbook for Stabilization/Solidification of Hazardous Waste

Date Issued 6 86

Issuing Office EPA/ORD/HWERL, Cincinnati, OH

Ordering Information EPA REPORT #540/2-86-001
NTIS REF #PB-87-116-745

Abstract	Describes reagents and methodology determined to be useful in stabilizing/solidifying hazardous wastes. Can be used to access technical solutions proposed for specific remedial action cases.
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Leachate Plume Management

Date Issued 11/85

Issuing Office EPA/OSWER/HWERL, Cincinnati, OH

Ordering Information EPA REPORT #540/2-85-004
NTIS REF. #PB-86-122-330

Abstract	Provides an overview of fundamental concepts, procedures and technologies used in leachate plume management. Discusses plume generation dynamics and, plume control technologies, and selection criteria.
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OSWER DIRECTIVE 9380.1-02

Management of Hazardous Waste Leachate

Date Issued	9/82
Issuing Office	EPA/OSWER, Washington, D.C.
Ordering Information	EPA REPORT #SW-871 NTIS REF #PB 81-189-359
Abstract	Management options available for controlling, treating, disposing of hazardous waste leachate. Includes leachate generation, characteristics, options for treatment, technology profiles. Treatability data, by-products and costs

Mobile Treatment Technologies for Superfund Wastes

Date Issued	9/86
Issuing Office	EPA/OSWER/OERR, Washington, D.C.
Ordering Information	EPA REPORT #540/2-86-003F NTIS REF #PB 87-110-656
Abstract	Addresses use of established and developing mobile systems to treat Superfund wastes. Discusses capabilities and limitations of five treatment categories: thermal, immobilization, chemical, physical, and biological

Practical Guide--Trial Burns for Hazardous Waste Incinerators: Project Summary

Date Issued	7/86
Issuing Office	EPA/OSWER/HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #600/2-86-050 NTIS REF #PB-86-190-246/AS
Abstract	Concentrates on the important and troublesome aspects of trial burns

**Prohibition on the Placement of Bulk Liquid Hazardous Waste in Landfills--
Statutory Interpretive Guidance**

Date Issued	6/86
Issuing Office	EPA/OSW, Washington, D.C.

OSWER DIRECTIVE 9380 1-02

Ordering Information	EPA REPORT #N/A NTIS REF #PB 86-212-271
Abstract	Discusses legal requirements of Section 3004(C) and presents technical guidance to assist owners and operators in complying with RCRA.

**Review of In-Place Treatment Techniques for Contaminated Surface Soils, Volume 1--
Technical Evaluation**

Date Issued	9/84
Issuing Office	EPA ORD HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #540 2-84-003A NTIS REF #PB-85-124-881
Abstract	Presents information on in-place treatment technologies applicable to contaminated soils at shallow depths. Discusses extraction, immobilization, degradation, attenuation, and reduction of volatiles.

**Review of In-Place Treatment Techniques for Contaminated Surface Soils, Volume 2--
Background Information for In-Situ Treatment**

Date Issued	9/84
Issuing Office	EPA ORD HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #540/2-84-003B NTIS REF #PB-85-124-889
Abstract	Presents information on in-place treatment technologies applicable to contaminated soils at shallow depths. Discusses extraction, immobilization, degradation, attenuation, and reduction of volatiles.

Systems to Accelerate In Situ Stabilization Waste Deposits

Date Issued	9/86
Issuing Office	EPA, ORD, HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #540/2-86-002 NTIS REF #PB-87-112-306

OSWER DIRECTIVE 9380 1-02

Abstract Four reactant categories have been examined. Biodegradation, surfactant-assistant flushing, hydrolysis, oxidation. Methods of delivery assessed include surface flooding, ponding, surface spraying, ditching, and subsurface infiltrations beds.

Treatment Technology Briefs: Alternatives to Hazardous Waste Landfills

Date Issued 7/86

Issuing Office EPA ORD/HWERL, Cincinnati, OH

Ordering Information EPA REPORT #600/8-86-017
NTIS REF #PB-87-110-680

Abstract Summary of current technology other than landfill and containment. Biological treatments: centrifugation, oxidation, absorption, injection, ozonation, neutralization, steam stripping, ultraviolet photolysis, plasma systems, and many others.

E. SOURCE CONTROL: STORAGE/LAND DISPOSAL - GUIDANCE DOCUMENTS ON PLANNING SOURCE CONTROL REMEDIAL ACTIONS, AND TECHNICAL REFERENCES ON CONTAINMENT TECHNOLOGIES

Data Quality Objectives: Development Guidance for Uncontrolled Hazardous Waste Site Remedial Response Activities

Date Issued 10/86

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #N/A
NTIS REF #N/A
OSWER DIRECTIVE 9355 0-07A

Abstract Provides guidance in development of data quality objectives (DQOs) for remedial response under CERCLA. Includes remedial investigation (RI), feasibility studies (FS), remedial design (RD), and remedial action (RA). Supersedes 9355 0-7.

Guidance Document for Cleanup of Surface Tank and Drum Sites

Date Issued 5/85

Issuing Office EPA/OERR/HSCD, Washington, D.C.

OSWER DIRECTIVE 9380 1-02

Ordering Information

EPA REPORT #N/A
NTIS REF #PB 87-110-672
OSWER DIRECTIVE 9380 0-03

Abstract

Designed to assist on-scene Federal, State, and local officials and private firms that plan and implement remedial actions at National Priorities List (NPL) sites containing hazardous wastes

Guidance Manual for Research, Development, and Demonstration Permits Under 40 CFR, Sections 270.65

Date Issued

7/86

Issuing Office

EPA/OSW, Washington D C

Ordering Information

EPA REPORT #530-SW-86 008
NTIS REF #PB 86-229-192
OSWER DIRECTIVE 9527 00 1A

Abstract

Provides information for RCRA permit applicants and EPA and State permit writers for preparing and processing RCRA permit applications for RCRA research, development, and demonstration permits

Leachate Plume Management

Date Issued

11 85

Issuing Office

EPA OSWER HWERL, Cincinnati, OH

Ordering Information

EPA REPORT #540 2-85-004
NTIS REF #PB-86-122-330
OSWER DIRECTIVE 9380-0-5

Abstract

Provides an overview of fundamental concepts, procedures, and technologies used in leachate plume management. Discusses plume generation dynamics and delineation, plume control technologies, and selection criteria

Management of Hazardous Waste Leachate

Date Issued

9/82

Issuing Office

EPA/OSWER, Washington, D.C

OSWER DIRECTIVE 9380 1-02

Ordering Information

EPA REPORT #SW-871
NTIS REF #PB-81-189-359

Abstract

Management options available for controlling, treating, disposing of hazardous waste leachate. Includes leachate generation, characteristics, options for treatment, technology profiles. Treatability data, by-products, and costs

Systems to Accelerate In Situ Stabilization of Waste Deposits

Date Issued

9/86

Issuing Office

EPA/ORD/HWERL, Cincinnati, OH

Ordering Information

EPA REPORT #540/2-86-002
NTIS REF #PB-87-112-306

Abstract

Four reactant categories have been examined: Biodegradation, surfactant-assisted flushing, hydrolysis, oxidation. Methods of delivery assessed include surface flooding, ponding, surface spraying, ditching, and subsurface infiltration beds

Treatment Technology Briefs: Alternatives to Hazardous Waste Landfills

Date Issued

7/86

Issuing Office

EPA/ORD/HWERL, Cincinnati, OH

Ordering Information

EPA REPORT #600/8-86-017
NTIS REF #PB-87-110-680

Abstract

Summary of current technology other than landfill and containment. Biological treatments, centrifugation, oxidation, absorption, injection, ozonation, neutralization, steam stripping, ultraviolet photolysis, plasma systems, and many others.

F. GROUND WATER REMEDIATION - DOCUMENTS ON PLANNING GROUNDWATER REMEDIAL ACTIONS AND TECHNICAL REFERENCES ON COLLECTION, CONTAINMENT, AND TREATMENT TECHNOLOGIES

Leachate Plume Management

Date Issued

11/85

Issuing Office

EPA/OSWER/HWERL, Cincinnati, OH

OSWER DIRECTIVE 9380 1-02

Ordering Information EPA REPORT #540 2-85-004
NTIS REF #PB-86-122-330
OSWER DIRECTIVE 9380-0-5

Abstract Provides an overview of fundamental concepts, procedures, and technologies used in leachate plume management. Discusses plume generation dynamics and delineation, plume control technologies, and selection criteria.

G. RISK/ENDANGERMENT ASSESSMENT - TECHNICAL AND GUIDANCE DOCUMENTS ON CONDUCTING RISK ASSESSMENTS AT HAZARDOUS WASTE SITES

Health Effects Assessment Documents (58 chemical profiles)

Date Issued 9 84

Issuing Office EPA OERR OHEA, Cincinnati, OH

Ordering Information EPA REPORT #540 1-86-001 through 058
NTIS REF #PB-86-134-111 AS

Abstract These documents are brief summary assessments of potential adverse health effects following oral or inhalation exposure of chemicals. Documents are listed individually by chemical. Some 58 chemicals are profiled.

Superfund Exposure Assessment Manual - Draft

Date Issued 1 86

Issuing Office EPA OERR PAS, Washington, D C

Ordering Information EPA REPORT #N/A
NTIS REF #N/A
OSWER DIRECTIVE 9285 5-01

Abstract	Outlines a framework for a comprehensive, consistent, and appropriate assessment of human exposure associated with uncontrolled hazardous waste sites. Presents an integrated methodology designed to guide the three major component analyses required to assess human population exposure to contaminants released from uncontrolled hazardous waste sites: 1) analysis of toxic contaminants released from a site; 2) determination of the environmental fate of such contaminants; and 3) evaluation of nature and magnitude of human population exposure to toxic contaminants.
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★ **Superfund Public Health Evaluation Manual**

Date Issued	10/86
Issuing Office	EPA/OERR, Washington, D.C.
Ordering Information	EPA REPORT #540 1-86 060 NTIS REF. #N A OSWER DIRECTIVE 9285 4-01

Abstract	Establishes framework to analyze public health risks at superfund sites and to develop design goals for remedial alternatives.
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H. PERSONNEL PROTECTION - GUIDANCE AND TECHNICAL DOCUMENTS ON HEALTH AND SAFETY PLANNING AND IMPLEMENTATION FOR WORKERS ON HAZARDOUS WASTE SITES

Dust Control at Hazardous Waste Sites

Date Issued	11/85
Issuing Office	EPA/ORD/HWERL, Cincinnati, OH (USATHAMA)
Ordering Information	EPA REPORT #540 2-85 003 NTIS REF. #PB-86-190-105

Abstract	Describes methods of controlling contaminated fugitive dust from contaminated land surfaces. Contains information on equipment decontamination and worker protection. Discusses possible non-air impacts arising from the use of dust suppressant measures.
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OSWER DIRECTIVE 9380.1-02

★ **Occupational Safety and Health: Guidance Manual for Hazardous Waste Site Activities**

Date Issued 10/85

Issuing Office NIOSH, Dept. of Health and Human Health Services, Cincinnati, OH

Ordering Information EPA REPORT #N/A
NTIS REF. #N/A
GPO REFERENCE #(NIOSH PUB)85-115

Abstract Guidance on planning and preventive measures for managers responsible for safety at inactive hazardous waste sites. Covers hazards, training, medical program, protective equipment, decontamination, air monitoring, container handling, site emergencies

★ **Protecting Health and Safety at Hazardous Waste Sites: An Overview**

Date Issued 9 85

Issuing Office CERL, Cincinnati, OH

Ordering Information EPA REPORT #625-9-85 006
NTIS REF #N/A

Abstract Booklet designed for workers at cleanup sites. Summaries for health protection. Details training, medical monitoring, handling waste containers, wearing personal protective equipment.

★ **Standard Operating Safety Guides**

Date Issued 11/84

Issuing Office EPA/OERR/HRSD, Washington, D C

Ordering Information EPA REPORT #N/A
NTIS REF. #N/A
OSWER DIRECTIVE 9285 1-01B

Abstract Safety guides related to hazardous site control and entry. Intended to supplement EPA's Occupational Health and Safety Manual, particularly Ch. 9, Hazardous Substances Responses.

I. CONSTRUCTION TECHNIQUES/PROCEDURES - GUIDANCE AND TECHNICAL REFERENCES ON PLANNING AND IMPLEMENTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES

Decontamination Techniques for Mobile Response Equipment Used at Waste Sites (State-of-the-Art Survey) Final Report

Date Issued	1 86
Issuing Office	EPA ORD HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #600 2-85-105 NTIS REF #PB-85-247-021 XA
Abstract	State-of-the-art review of facility and equipment decontamination, contamination assessment, and contamination prevention. Based on literature search and survey manufacturers.

Drum Handling Practices at Hazardous Waste Sites

Date Issued	1 86
Issuing Office	EPA ORD HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #600 2-86-013 NTIS REF #PB-86-165-362
Abstract	Provides detailed technical guidance on methods, procedures, and equipment suitable for removing drummed wastes. Includes data on locating buried drums, excavation, on-site transfer, waste consolidation, and temporary storage

Dust Control at Hazardous Waste Sites

Date Issued	11 85
Issuing Office	EPA/ORD/HWERL, Cincinnati, OH (USATHAMA)
Ordering Information	EPA REPORT #540/2-85-003 NTIS REF #PB-86-190-105
Abstract	Describes methods of controlling contaminated fugitive dust from contaminated land surfaces. Contains information on equipment decontamination and worker protection. Discusses possible non-air impacts arising from the use of dust suppressant measures

OSWER DIRECTIVE 9380 1-02

Emergency Response Procedures for Control of Hazardous Substance Release

Date Issued	1983
Issuing Office	EPA ORD/HWERL, Edison, NJ
Ordering Information	EPA REPORT #600 D-84-023 NTIS REF #PB-84-128-719
Abstract	Provides information for selecting spill stabilization controls for hazardous substances regulated by CERCLA.

Guidance Document for Cleanup of Surface Tank & Drum Site

Date Issued	5-85
Issuing Office	EPA OERR HSCD, Washington, D C
Ordering Information	EPA REPORT #N A NTIS REF #PB-87-110-672 OSWER DIRECTIVE 9380 0-03
Abstract	Designed to assist on-scene Federal, State, and local officials and private firms that plan and implement remedial actions at National Priorities List (NPL) sites containing hazardous wastes

Guidance Manual for Minimizing Pollution From Waste Disposal Sites

Date Issued	8/78
Issuing Office	EPA ORD WERL, Cincinnati, OH
Ordering Information	EPA REPORT #600 2-78-142 NTIS REF #PB-286-905
Abstract	Helps select technology to reduce or eliminate leachate at existing dumps and landfills. Describes remedial measures used during or after closure in the following categories: ground water or plume management, chemical immobilization of wastes, excavation.

Guide for Decontaminating Buildings, Structures, and Equipment at Superfund Sites

Date Issued	3/85
Issuing Office	EPA ORD HWERL, Cincinnati, OH

OSWER DIRECTIVE 9380.1-02

Ordering Information	EPA REPORT #600/2-85-028 NTIS REF #PB-85-201-234 AS
Abstract	Covers decontamination methods, types of contaminants, site-specific technology selection, effectiveness evaluation, case studies, and worker health and safety

Slurry Trench Construction for Pollution Migration Control

Date Issued	2/84
Issuing Office	EPA/OSWER OERR, Cincinnati, OH
Ordering Information	EPA REPORT #540/2-84-001 NTIS REF #PB-84-177-831 OSWER DIRECTIVE 9370.0-01
Abstract	Guidance on use of slurry walls for control of subsurface pollutants. Describes how these barriers can be employed for waste site remediation and presents theory of their function and use. Describes elements of slurry wall feasibility, design, and construction.

Superfund Remedial Design and Remedial Action Guidance

Date Issued	6/86
Issuing Office	EPA OERR HSCD, Washington, D.C.
Ordering Information	EPA REPORT #N/A NTIS REF #PB 88-107529 OSWER DIRECTIVE 9355.0-04A
Abstract	Provides help for parties who plan, administer, and manage remedial designs and remedial actions at Superfund sites. Supersedes 9355.0-4

Superfund Removal Procedure--Revision #2

Date Issued	8/84
Issuing Office	EPA/ERD, Edison, NJ
Ordering Information	EPA REPORT #N/A NTIS REF #N/A OSWER DIRECTIVE 9360.0-03A

OSWER DIRECTIVE 9380 1-02

Abstract Provides EPA response officials with uniform agency-wide guidance on immediate and planned removal actions. Supersedes Superfund removal guidance - revision number one. Supplements Superfund implementation plan for FY 1985

Technical Guidance Document: Construction Quality Assurance for Hazardous Waste Land Disposal Facilities (Final Report)

Date Issued 7 86

Issuing Office EPA ORD HWERL, Cincinnati, OH

Ordering Information EPA REPORT #530.SW-86-031
NTIS REF #PB-87-132-825
OSWER DIRECTIVE 9472 00-3

Abstract Presents guidance for preparing site-specific construction quality assurance (QA) plans for hazardous waste disposal facilities, including landfills, surface impoundments, and wastepiles

J. PROGRAM GUIDANCE - GUIDANCE DOCUMENTS ON CONDUCTING AND MANAGING PLANNING AND CONSTRUCTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES

★ CERCLA Compliance With Other Environmental Statutes

Date Issued 10-85

Issuing Office EPA OERR, Washington, D C

Ordering Information EPA REPORT #N/A
NTIS REF. #N/A
OSWER DIRECTIVE 9234 0-02

Abstract Sets forth policy on applicability of standards, criteria, advisories, and guidance of other State and Federal environmental and public health statutes of CERCLA.

Guidance Document for Cleanup of Surface Impoundment Sites

Date Issued 6-86

Issuing Office EPA OERR HSCD, Washington, D C.

OSWER DIRECTIVE 9380.1-02

Ordering Information EPA REPORT #N/A
 NTIS REF #PB-87-110-664
 OSWER DIRECTIVE 9380 0-06

Abstract Addresses remedial actions for cleanup of pits, ponds, or lagoons containing hazardous wastes. To be used under direction of engineer or scientist experienced in hazardous waste remedial project.

Guidance Document for Cleanup of Surface Tank and Drum Sites

Date Issued 5/85

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #N/A
 NTIS REF #PB-87-110-672
 OSWER DIRECTIVE 9380 0-03
 GPO REFERENCE #N/A

Abstract Designed to assist on-scene Federal, State, and local officials and private firms that plan and implement remedial actions at National Priorities List (NPL) sites containing hazardous wastes.

Guidance Manual for Research, Development, and Demonstration Permits Under 40 CFR, Section 270.65

Date Issued 7/86

Issuing Office EPA/OSW, Washington, D.C.

Ordering Information EPA REPORT #N/A
 NTIS REF #PB-86-229-192

Abstract Provides information for RCRA permit applicants and EPA and State permit writers for preparing and processing RCRA permit applications for RCRA research, development, and demonstration permits.

★ Guidance on Feasibility Studies Under CERCLA

Date Issued 6/85

Issuing Office EPA/OSWER/OWPE, Washington, D.C.

OSWER DIRECTIVE 9380 1-02

Ordering Information	EPA REPORT #540/G-85-003 NTIS REF #PB-85-238-590 OSWER DIRECTIVE 9355 0-05C
Abstract	Guide providing detailed structure for identifying, evaluating, and selecting remedial action alternatives under CERCLA and the National Contingency Plan (NCP)

★ Guidance on Remedial Investigations Under CERCLA

Date Issued	6/85
Issuing Office	EPA/OSWER, Washington, D C
Ordering Information	EPA REPORT #540/G-85-002 NTIS REF #PB-85-238-616 OSWER DIRECTIVE 9355 0-06B
Abstract	Provides guidance on conduct of remedial investigations in support of feasibility studies under Superfund and National Contingency Plan, describes steps in remedial investigation process, and identifies important factors, information, and analysis needs

Handbook for Evaluating Remedial Action Technology Plans (Final Report: Oct. 81 - June 82)

Date Issued	8/83
Issuing Office	EPA/ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT #600/2-83-076 NTIS REF #PB-84-118-249
Abstract	Contains information on over 50 remedial action technologies.

Handbook, Remedial Action at Waste Disposal Sites, Revised

Date Issued	10/85
Issuing Office	EPA/OERR/HWERL, Cincinnati, OH
Ordering Information	EPA REPORT #625/6-85-006 NTIS REF #PB-87-201-034

OSWER DIRECTIVE 9380.1-02

Abstract Overview of remedial investigation/feasibility study process as outlined in the National Contingency Plan. Describes specific remedial technologies including application and limitations, design, construction, implementation, operation, and selection.

Petitions to Delist Hazardous Wastes: A Guidance Manual

Date Issued 4/85

Issuing Office EPA/OSWER, Washington, D.C.

Ordering Information EPA REPORT #530-SW-85-003
NTIS REF. #PB-85-194-488

Abstract Describes all necessary data which must be included in a delisting petition submitted under 40 CFR 260.22. Includes sample petition as well as necessary test methods.

Superfund Federal-Lead Remedial Project Management Handbook

Date Issued 12/86

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #540-G-87-001
NTIS REF. #N/A
OSWER DIRECTIVE 9355.1-01

Abstract Defines roles and responsibilities of remedial project managers (RPMS). Discusses project management including planning, monitoring, control, coordination and communication with regard to Federal-lead remedial projects.

Superfund Remedial Design and Remedial Action Guidance

Date Issued 6/86

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #N/A
NTIS REF. # PB 88-107529
OSWER DIRECTIVE 9355-0-04A

OSWER DIRECTIVE 9380 1-02

Abstract Gives help to those who plan, administer, and manage remedial designs and remedial actions at Superfund sites. Supersedes 9355.00-4

Superfund State-Lead Remedial Project Management Handbook

Date Issued 12/86

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #540/G-87-002
NTIS REF. #N/A
OSWER DIRECTIVE 9355 2-01

Abstract Defines roles and responsibilities of remedial project managers (RPMS). Discusses project management including planning, monitoring, control, coordination, and communication with regard to state-lead remedial projects

K. CASE STUDIES - CASE STUDIES OF REMEDIAL RESPONSES AT HAZARDOUS WASTE SITES

Cases Studies 1-23: Remedial Responses at Hazardous Waste Sites

Date Issued 4/84

Issuing Office EPA/OSWER/WERL, Cincinnati, OH

Ordering Information EPA REPORT #540/2-84-002B
NTIS REF. #PB-85-121-739

Abstract Identifies and assesses site response activities at uncontrolled hazardous waste sites. Results of nationwide survey which identified remedial action planned or ongoing at 395 sites. Includes case studies of 23 sites where remedial response occurred

Summary Report: Remedial Response at Hazardous Waste Sites

Date Issued 1984

Issuing Office EPA/OSWER/WERL, Cincinnati, OH

Ordering Information EPA REPORT #540/2-84-002A
NTIS REF. #PB-86-121-721

OSWER DIRECTIVE 9380 1-02

Abstract Identifies and assesses various types of site response activities at uncontrolled hazardous waste sites in the U.S.

L. COSTS - DOCUMENTS ON THE PROCEDURES FOR COSTING REMEDIAL ACTIONS AT HAZARDOUS WASTE SITES AND HISTORICAL INFORMATION ON UNIT COSTS

Costs of Remedial Response Actions at Uncontrolled Hazardous Waste Sites

Date Issued 1981

Issuing Office EPA OSWER/WERL, Cincinnati, OH

Ordering Information EPA REPORT #600/2-82-035
NTIS REF #PB-83-164-830

Abstract Updates conceptual design cost estimates for remedial action unit operations described in earlier reports. Emphasizes uncontrolled landfill or impoundment disposal sites in New Jersey.

Remedial Action Costing Procedures Manual

Date Issued 9/85

Issuing Office EPA/OERR/HSCD, Washington, D.C.

Ordering Information EPA REPORT #600/8-87-049
NTIS REF #N/A
OSWER DIRECTIVE 9355 0-10

Abstract Help in preparing feasibility cost estimates of remedial action alternatives required under revised NCP. Helps managers evaluate cost estimates for remedial responses to uncontrolled release of hazardous substances.

Removal Cost Management Manual

Date Issued 1/85

Issuing Office EPA/OERR/ERD, Washington, D.C.

Ordering Information EPA REPORT #N/A
NTIS REF #N/A
OSWER DIRECTIVE 9360.0.02A

Abstract Intended for use by on-scene personnel when performing cost management activities at a superfund removal site.

B LIST

Asbestos Waste Management Guidance: Generation, Transport and Disposal

Date Issued	5/85
Issuing Office	EPA/OSWER/OSW, Washington, D.C.
Ordering Information	EPA REPORT # 530 SW 85-007 NTIS REF. # N/A OSWER DIRECTIVE N/A GPO REFERENCE # 055-000-00248-7

Characterization of Hazardous Waste Sites--A Methods Manual, Volume II: Available Sampling Methods, 2nd Edition

Date Issued	4/85
Issuing Office	EPA ORD EMSL, Las Vegas, NV
Ordering Information	EPA REPORT # 600/4-84-076 NTIS REF # PB-85-168-771 OSWER DIRECTIVE N/A

Characterization of Hazardous Waste Sites--A Methods Manual, Volume III: Available Laboratory Analytical Methods. Project Summary

Date Issued	6/84
Issuing Office	EPA/ORD, Las Vegas, NV
Ordering Information	EPA REPORT # 600/S4-84-038 NTIS REF # PB-84-191-048 OSWER DIRECTIVE N/A

Characterization of Hazardous Waste Sites--A Methods Manual, Volume I: Site Investigation

Date Issued	4/85
Issuing Office	EPA/ORD, Las Vegas, NV
Ordering Information	EPA REPORT # 600/4-84-075 NTIS REF. # PB-85-215960-XA OSWER DIRECTIVE N/A

Characterization of Hazardous Waste Sites--A Methods Manual, Volume II: Available Sampling Methods, 2nd Edition

Date Issued	4-85
Issuing Office	EPA/ORD/EMSL, Las Vegas, NV
Ordering Information	EPA REPORT # 600/4-84-076 NTIS REF # PB-85-168-771 OSWER DIRECTIVE N/A

Characterization of Hazardous Waste Sites--A Methods Manual, Volume III: Available Laboratory Analytical Methods. Project Summary

Date Issued	6-84
Issuing Office	EPA/ORD, Las Vegas, NV
Ordering Information	EPA REPORT # 600/S4-84-038 NTIS REF # PB-84-191-048 OSWER DIRECTIVE N/A

Closure of Hazardous Waste Surface Impoundments

Date Issued	9-80
Issuing Office	EPA/ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT # 530/SW-8-3 NTIS REF. # PB-81-166-894 OSWER DIRECTIVE: N/A

Compatibility of Grouts with Hazardous Waste

Date Issued	1-84
Issuing Office	EPA/ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT # 600/S2-84-015 NTIS REF. # PB-84-139-732 OSWER DIRECTIVE N/A

Construction Quality Assurance for Hazardous Waste Land Disposal Facilities

Date Issued 11/85

Issuing Office EPA OSWER OSW, Washington, D C.

Ordering Information EPA REPORT # 530-SW-85-021
NTIS REF #: N A
OSWER DIRECTIVE N A

Cost of Remedial Actions at Uncontrolled Hazardous Waste Sites--Impacts of Worker Health and Safety Considerations

Date Issued 1983

Issuing Office EPA ORD WERL, Cincinnati, OH

Ordering Information EPA REPORT # 600/D-84-019
NTIS REF # PB-84-128-701
OSWER DIRECTIVE N A

Criteria for Identifying Areas of Vulnerable Hydrogeology under RCRA; Appendix A: Technical Methods for Evaluating Hydrogeometric Parameters

Date Issued 7/86

Issuing Office EPA OSWER, Washington, D C

Ordering Information EPA REPORT # N/A
NTIS REF # PB-86-224-961
OSWER DIRECTIVE 9472 00-2A APP

Criteria for Identifying Areas of Vulnerable Hydrogeology under RCRA; Appendix B: Groundwater Flow Net/Flow Line Construction and Analysis

Date Issued 7/86

Issuing Office EPA OSWER, Washington, D C

Ordering Information EPA REPORT # N A
NTIS REF # PB-86-224-979
OSWER DIRECTIVE 9472.00-2A APP

Criteria for Identifying Areas of Vulnerable Hydrogeology under RCRA; Appendix C: Technical Methods for Calculating Time-of-Travel (TOT) in the Unsaturated Zone

Date Issued 7/86

Issuing Office EPA OSWER, Washington, D C

Ordering Information EPA REPORT # N/A
NTIS REF #: PB-86-224-987
OSWER DIRECTIVE 9472 00-2A APP

Criteria for Identifying Areas of Vulnerable Hydrogeology under RCRA; Appendix D: Development of Vulnerability Criteria Based on Risk Assessments and Theoretical Modeling

Date Issued 7/86

Issuing Office EPA OSWER, Washington, D C

Ordering Information EPA REPORT # N/A
NTIS REF # PB-86-224-995
OSWER DIRECTIVE 9472 00-2A APP

Criteria for Identifying Areas of Vulnerable Hydrogeology Under the Resource Conservation and Recovery Act--Statutory Interpretive Guidance

Date Issued 7/86

Issuing Office EPA OSWER, Washington, D C

Ordering Information EPA REPORT # N/A
NTIS REF # PB-86-224-953
OSWER DIRECTIVE 9472 00-2A

Draft Guidance on Implementation of the Minimum Technological Requirements of HSWA of 1984, Respecting Liners and Leachate Collection Systems.

Date Issued 5/85

Issuing Office EPA/OSWER/OSW, Washington, D C.

Ordering Information EPA REPORT #. 530/SW-85/012
NTIS REF #: N/A
OSWER DIRECTIVE N/A

OSWER DIRECTIVE 9380.1-02

**Draft Minimum Technology Guidance on Double Liner Systems for Landfills and Surface Impoundments--
Design, Construction, and Operation**

Date Issued 5/85

Issuing Office EPA/OSWER/OSW, Washington, D.C

Ordering Information EPA REPORT # 530/SW-85-014
NTIS REF # N/A

EPA Guide for Identifying Cleanup Alternatives at Hazardous Waste Sites and Spills: Biological Treatment

Date Issued 12/85

Issuing Office EPA/OERR/CERI, Cincinnati, OH

Ordering Information EPA REPORT # 600/3-83-063
NTIS REF # PB-86-144-664
OSWER DIRECTIVE N/A

Engineering Handbook for Hazardous Waste Incineration

Date Issued 9/81

Issuing Office EPA/OSW, Washington, D.C

Ordering Information EPA REPORT # SW-889
NTIS REF # PB-81-248-163
OSWER DIRECTIVE N/A

Evaluating Cover Systems for Solid and Hazardous Waste

Date Issued 9/80

Issuing Office EPA/ORD/WERL, Cincinnati, OH

Ordering Information EPA REPORT #: 530/SW-867
NTIS REF. # PB-81-166-340
OSWER DIRECTIVE N/A
GPO REFERENCE # 055-000-00228-2

OSWER DIRECTIVE 9380 1-02

Evaluation of Air Emissions from Hazardous Waste Treatment, Storage, and Disposal Facilities

Date Issued	5/85
Issuing Office	EPA/ORD/HWERL Cincinnati, OH
Ordering Information	EPA REPORT #: 600/2-85-057 NTIS REF. # PB-85-203-792 OSWER DIRECTIVE N/A

Feasibility of *In-Situ* Solidification/Stabilization of Landfilled Hazardous Wastes

Date Issued	9/83
Issuing Office	EPA/ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT #: 600/2-83-088 NTIS REF. # PB-83-261-099 OSWER DIRECTIVE N/A

Groundwater Handbook

Date Issued	3/87
Issuing Office	EPA/ORD/RSKERL, Ada, OK
Ordering Information	EPA REPORT #: 625/6-87-016 NTIS REF. # N/A OSWER DIRECTIVE N/A

Guidance Manual for Hazardous Waste Incinerator Permits: Final Report

Date Issued	7/83
Issuing Office	EPA/OSWER, Washington, D.C
Ordering Information	EPA REPORT # 530/SW-966 NTIS REF. # PB-84-100-577 OSWER DIRECTIVE: N/A

OSWER DIRECTIVE 9380 1-02

Guide to the Disposal of Chemically Stabilized and Solidified Waste

Date Issued	9/82
Issuing Office	EPA ORD/WERL Cincinnati, OH
Ordering Information	EPA REPORT # 530 SW-872 NTIS REF. # PB-81-181-505 OSWER DIRECTIVE N A GPO REFERENCE # 055-000-00226-6

Hazardous Waste Land Treatment

Date Issued	9/84
Issuing Office	EPA ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT #: 530 SW-874 NTIS REF # PB-81-182-107 OSWER DIRECTIVE N A GPO REFERENCE # 055-000-00232-1

Hydraulic Simulation on Solid Waste Disposal Sites

Date Issued	1982
Issuing Office	EPA OSW, Washington, D C
Ordering Information	EPA REPORT # SW-868 NTIS REF #. N/A OSWER DIRECTIVE. N/A GPO REFERENCE # 055-000-00225-8

Landfill and Surface Impoundment Performance Evaluation Manual

Date Issued	4/83
Issuing Office	EPA ORD/WERL/OSWER, Cincinnati, OH
Ordering Information	EPA REPORT #: 530 SW-869c NTIS REF #: N/A OSWER DIRECTIVE: N/A GPO REFERENCE #: 055-000-00233-9

OSWER DIRECTIVE 9380.1-02

Lining of Waste Impoundments and Disposal Facilities

Date Issued 3/83

Issuing Office EPA/ORD/WERL, Cincinnati, OH

Ordering Information EPA REPORT # 530/SW-870
NTIS REF # PB-86-192-796
OSWER DIRECTIVE N/A
GPO REFERENCE # 055-000-00231-2

Permit Guidance Manual on Hazardous Waste Land Treatment Demonstrations: Final Report

Date Issued 7/86

Issuing Office EPA/OSWER, Washington, D.C.

Ordering Information EPA REPORT # 530/SW-86-032
NTIS REF # PB-86-229-184
OSWER DIRECTIVE 9486 00-1

Permit Guidance Manual on Unsaturated Zone Monitoring for Hazardous Waste Land Treatment Units

Date Issued 4/86

Issuing Office EPA/OSWER/EMSL, Las Vegas, NV

Ordering Information EPA REPORT # 530/SW-86-040
NTIS REF # N/A
OSWER DIRECTIVE N/A

**Permit Writers Guidance Manual for Hazardous Wastes Land Storage and Disposal Facilities--Phase I :
Criteria for Location Acceptability and Existing Applicable Regulations**

Date Issued 2/85

Issuing Office EPA/OSWER, Washington, D.C.

Ordering Information EPA REPORT # 600/S2-86-050
NTIS REF # PB-86-125-580
OSWER DIRECTIVE: 9472 00-1

OSWER DIRECTIVE 9380 1-02

Practical Guide for Ground-Water Sampling

Date Issued	9/85
Issuing Office	EPA/ORD, Washington, D.C
Ordering Information	EPA REPORT # 600/2-85-104 NTIS REF # PB-86-137-304 OSWER DIRECTIVE N/A

Procedures for Modeling Flow Through Clay Liners to Determine Required Liner Thickness

Date Issued	4/84
Issuing Office	EPA/OSWER, Washington, D.C.
Ordering Information	EPA REPORT # 530-SW-84-001 NTIS REF # N/A OSWER DIRECTIVE N/A

Soil Properties, Classification and Hydraulic Conductivity Testing

Date Issued	3/84
Issuing Office	EPA/OSWER WERL, Cincinnati, OH
Ordering Information	EPA REPORT # SW-925 NTIS REF # N/A OSWER DIRECTIVE N/A

Solid Waste Leaching Procedure Manual

Date Issued	3/84
Issuing Office	EPA/OSWER/WERL, Cincinnati, OH
Ordering Information	EPA REPORT # SW-924 NTIS REF # N/A OSWER DIRECTIVE N/A

Stabilization, Testing and Disposal of Arsenic-Containing Wastes

Date Issued	8 82
Issuing Office	EPA ORD WERL, Cincinnati, OH
Ordering Information	EPA REPORT # 600/D-81-104 NTIS REF # PB-83-190-975 OSWER DIRECTIVE N A

Superfund Risk Assessment Information Directory

Date Issued	11 86
Issuing Office	EPA/OERR/PAS, Washington, D C
Ordering Information	EPA REPORT # 540 1-86 061 NTIS REF # N A OSWER DIRECTIVE 9285 6-01

The Hydrologic Evaluation of Landfill Performance (HELP) Model (Volume 1)

Date Issued	6 84
Issuing Office	EPA/OSWER/WERL, Cincinnati, OH
Ordering Information	EPA REPORT # 530 SW-84-009 NTIS REF # PB-85-100-840 OSWER DIRECTIVE N A

The Hydrologic Evaluation of Landfill Performance (HELP) Model (Volume 2)

Date Issued	6 84
Issuing Office	EPA/OSWER/WERL, Cincinnati, OH
Ordering Information	EPA REPORT #: 530/SW-84-010 NTIS REF #: PB-85-100-832 OSWER DIRECTIVE N/A

Use of Remote Sensing Techniques in a Systematic Investigation of Hazardous Waste Sites

Date Issued	9/81
Issuing Office	EPA ORD/WERL, Cincinnati, OH
Ordering Information	EPA REPORT # 600/2-81-187 NTIS REF # PB-86-103-896 OSWER DIRECTIVE N/A

Waste Analysis Plan Guidance Manual

Date Issued	9/84
Issuing Office	N/A
Ordering Information	EPA REPORT # N/A NTIS REF. # N/A OSWER DIRECTIVE N/A GPO REFERENCE # 055-000-00244-4

C LIST

DOCUMENTS UNDER DEVELOPMENT

Alternative Treatment/Disposal Technology Utilization at Removal and Expedited Response Actions

Office EPA/OERR/ERD

Status Regional review

CERCLA Compliance with Other Laws Manual: Volume I--Overview and RCRA Requirements

Office OERR/OPM/PAS

Status Starts internal EPA review October 1987

CERCLA Compliance with Other Laws Manual: Volume II--Clean Water Act, Safe Drinking Water Act Requirements, and Groundwater Protection Policies

Office OERR/OPM/PAS

Status Starts internal EPA review October 1987

CERCLA Compliance with Other Laws Manual: Volume III--Clean Air Act and Other Environmental Statutes

Office OERR/OPM/PAS

Status Starts internal EPA review November 1987.

Endangerment Assessment Handbook

Office EPA/OSWER/OWPE

Status Final draft complete 8/85; undergoing internal EPA review

Guidance Manual for Permit Writers and Applications for the Storage and Treatment of Hazardous Waste in Tank Systems

Office EPA/OSWER/OSW

Status Final draft

Guidance on Implementing Land Disposal Regulations in Superfund

Office EPA/OERR/PAS

Status In preparation

NEPA Compliance for Removal Actions

Office EPA/OERR/ERD

Status Final draft

Procedures for Implementing the Off-Site Disposal Policy

Office EPA/OERR/ERD

Status Final draft

Removal Action Levels at Drinking Water Contamination Sites

Office EPA/OERR/ERD

Status Workgroup review