

LIST OF TABLES

CHAPTER B WASTE ANALYSIS PLAN

B-1	Summary of Headspace Gas and Solids Sample Requirements for Transuranic Mixed Waste
B-2	Headspace Target Analyte List and Methods
B-3	Required Organic Analyses and Test Methods Organized by Organic Analytical Groups
B-4	Summary of Sample Preparation and Analytical Methods for Metals
B-5	Summary of Parameters, Characterization Methods, and Rationale for Transuranic Mixed Waste without Acceptable Knowledge Sufficiency Determination
B-6	Required Program Records Maintained in Certified Characterization Program Site-Specific Project Files
B-7	WIPP Waste Information System Data Fields
B-8	Waste Tanks Subject to Exclusion
B-9	Listing of Permitted Hazardous Waste Numbers

APPENDIX B1 WASTE CHARACTERIZATION SAMPLING METHODS

B1-1	Gas Sample Requirements
B1-2	Summary of Drum Field QC Headspace Sample Frequencies
B1-3	Summary of Sampling Quality Control Sample Acceptance Criteria
B1-4	Sampling Handling Requirements for Homogeneous Solids and Soil/Gravel
B1-5	Headspace Gas Drum Age Criteria Sampling Scenarios
B1-6	Scenario 1 Drum Age Criteria (In Days) Matrix
B1-7	Scenario 2 Drum Age Criteria (In Days) Matrix
B1-8	Scenario 3 Packaging Configuration Groups
B1-9	Scenario 3 Drum Age Criteria (In Days) Matrix for S5000 Waste By Packaging Configuration Group

ADDENDUM B1 TOTALS ANALYSIS VERSUS TOXICITY CHARACTERISTIC LEACHING PROCEDURE

B1-1	RTLS for TCLP Analysis vs. RTLS for Totals Analysis
------	---

APPENDIX B3
QUALITY ASSURANCE OBJECTIVES AND DATA VALIDATION
TECHNIQUES FOR WASTE CHARACTERIZATION SAMPLING AND
ANALYTICAL METHODS

B3-1	Waste Material Parameters and Descriptions
B3-2	Gas Volatile Organic Compounds Target Analyte List and Quality Assurance Objectives
B3-3	Summary of Laboratory Quality Control Samples and Frequencies for Gas Volatile Organic Compound Analysis
B3-4	Volatile Organic Compounds Target Analyte List and Quality Assurance Objectives for Solids Analysis
B3-5	Summary of Laboratory Quality Control Samples and Frequencies for Volatile Organic Compound Analysis
B3-6	Semi-volatile Organic Compound Target Analyte List and Quality Assurance Objectives for Solids Analysis
B3-7	Summary of Laboratory Quality Control Samples and Frequencies for Semi-Volatile Organic Compounds Analysis
B3-8	Metals Target Analyte List and Quality Assurance Objectives
B3-9	Summary of Laboratory Quality Control Samples and Frequencies for Metals Analysis
B3-10	Minimum Training and Qualifications Requirements
B3-11	Testing Batch Data Report Contents
B3-12	Sampling Batch Data Report Contents
B3-13	Analytical Batch Data Report Contents
B3-14	Data Reporting Flags

CHAPTER D
INSPECTION SCHEDULE, PROCESS AND FORMS

D-1	Inspection Schedule/Procedures
D-1a	RH TRU Mixed Waste Inspection Schedule/Procedures
D-2	Monitoring Schedule

CHAPTER F
RCRA CONTINGENCY PLAN

F-1	Hazardous Substances in Large Enough Quantities to Constitute a Level II Incident
F-2	Resource Conservation and Recovery Act Emergency Coordinators
F-3	Planning Guide for Determining Incident Levels and Responses
F-4	Physical Methods of Mitigation
F-5	Chemical Methods of Mitigation
F-6	Emergency Equipment Maintained at the Waste Isolation Pilot Plant
F-7	Types of Fire Suppression Systems by Location

- F-8 Hazardous Release Reporting, Federal
- F-9 Hazardous Release Reporting, State of New Mexico

**CHAPTER G
TRAFFIC PATTERNS**

- G-1 Waste Isolation Pilot Plant Site Design Designation Traffic Parameters

**ATTACHMENT I
CLOSURE PLAN**

- I-1 Anticipated Earliest Closure Dates for the Underground HWDUs
- I-2 Anticipated Overall Schedule for Closure Activities
- I-3 Governing Regulations for Borehole Abandonment

**APPENDIX I1
DETAILED DESIGN REPORT FOR AN OPERATION PHASE PANEL
CLOSURE SYSTEM**

- I1-1 Constructability Design Calculations Index
- I1-2 Technical Specifications for the WIPP Panel-Closure System
- I1-3 Panel-Closure System Drawings
- I1-4 Compliance of the Design with the Design Requirements

**APPENDIX I2
WASTE ISOLATION PILOT PLANT
SHAFT SEALING SYSTEM
COMPLIANCE SUBMITTAL DESIGN REPORT**

- I2-1 Salado Brine Seepage Intervals⁽¹⁾
- I2-2 Permeability and Thickness of Hydrostratigraphic Units in Contact with Seals
- I2-3 Freshwater Head Estimates in the Vicinity of the Air Intake Shaft
- I2-4 Chemical Formulas, Distributions, and Relative Abundance of Minerals in the Rustler and Salado Formations (after Lambert, 1992)
- I2-5 Major Solutes in Selected Representative Groundwater from the Rustler Formation and Dewey Lake ~~Redbeds~~, in mg/L (after Lambert, 1992)
- I2-6 Variations in Major Solutes in Brines from the Salado ~~Formation~~, in mg/L (after Lambert, 1992)
- I2-7 Shaft Sealing System Design Guidance
- I2-8 Drawings Showing Configuration of Existing WIPP Shafts (Drawings are in Appendix I2-E)
- I2-9 Summary of Information Describing Existing WIPP Shafts
- I2-10 Drawings Showing the Sealing System for Each Shaft (Drawings are in Appendix I2-E)

- I2-11 Drawings Showing the Shaft Station Monoliths (Drawings are in Renewal Application Appendix I2-E)
- I2-12 Summary of Results from Performance Model

**APPENDIX I2A
MATERIAL SPECIFICATION
SHAFT SEALING SYSTEM
COMPLIANCE SUBMITTAL DESIGN REPORT**

- I2A-1 Concrete Mixture Proportions
- I2A-2 Standard Specifications for Concrete Materials
- I2A-3 Chemical Composition of Expansive Cement
- I2A-4 Requirements for Salado Mass Concrete Aggregates
- I2A-5 Target Properties for Salado Mass Concrete
- I2A-6 Test Methods Used for Measuring Concrete Properties During and After Mixing
- I2A-7 Test Methods Used for Measuring Properties of Hardened Concrete
- I2A-8 Representative Bentonite Composition
- I2A-9 Asphalt Component Specifications
- I2A-10 Ultrafine Grout Mix Specification

**APPENDIX I3
RADIOLOGICAL SURVEYS TO INDICATE POTENTIAL HAZARDOUS
WASTE RELEASES**

- I3-1 Summary of Waste Generation Processes and Waste Forms
- I3-2 Radiological Surveys during CH TRU Mixed Waste Processing
- I3-3 Radiological Surveys during RH TRU Mixed Waste Processing

**CHAPTER L
WIPP GROUNDWATER DETECTION MONITORING PROGRAM PLAN**

- L-1 Hydrological Parameters for Rock Units Above the Salado at WIPP
- L-2 WIPP Ground Water Detection Monitoring Program Sample Collection and Ground Water Surface Elevation Measurement Frequency
- L-3 Analytical Parameter List for the WIPP Detection Monitoring Program
- L-4 Analytical Parameter and Sample Requirements

**ADDENDUM L1
SITE CHARACTERIZATION**

- L1-1 Culebra Thickness Data Sets
- L1-2 Hydrologic Characteristics of Rock Units at the WIPP Site
- L1-3 Capacities of Reservoirs in the Pecos River Drainage
- L1-4 Current Estimates of Potash Resources at the WIPP Site

- L1-5 In-Place Oil Within Study Area
- L1-6 In-Place Gas Within Study Area
- L1-7 Chemical Formulas, Distributions, and Relative Abundances of Minerals in Delaware Basin Evaporites

**PERMIT APPENDIX M1
CONTAINER STORAGE**

- M1-1 RH TRU Mixed Waste Handling Equipment Capacities
- M1-2 Basic Design Requirements, Principal Codes, and Standards
- M1-3 Waste Handling Equipment Capacities
- M1-4 RH TRU Mixed Waste Handling Equipment Capacities
- M1-5 Parking Area Unit Storage Capacities

**APPENDIX M2
GEOLOGIC REPOSITORY**

- M2-1 Disposal Capacities for Underground Hazardous Waste Disposal Units
- M2-2 CH TRU Mixed Waste Handling Equipment Capacities
- M2-3 RH TRU Mixed Waste Handling Equipment Capacities
- M2-4 Instrumentation used in Support of the Geomechanical Monitoring System

**CHAPTER N
VOLATILE ORGANIC COMPOUND MONITORING PLAN**

- N-1 VOC Concentrations of Concern
- N-2 VOC Room-Based Limits
- N-3 Action Levels for Disposal Room Monitoring
- N-4 Target Analytes and Methods for Repository VOC (Station VOC-A and VOC-B) Monitoring and Disposal Room Monitoring
- N-5 Quality Assurance Objectives for Accuracy, Precision, Sensitivity, and Completeness

**CHAPTER Q
WIPP MINE VENTILATION RATE MONITORING PLAN**

- Q-1 Ventilation Operating Modes and Associated Flow Rates
- Q-2 Mine Ventilation Rate Testing Equipment
- Q-3 Active Disposal Room Ventilation Rate Log Sheet