

## PERMIT PART 6

### HAZARDOUS WASTE DISPOSAL IN THE LANDFILL

#### HIGHLIGHTS

This Part contains conditions for disposal of hazardous waste in the Landfill at the Triassic Park Waste Disposal Facility (the Facility). Conditions include requirements for the kinds of hazardous waste that can be placed in the Landfill, Landfill capacity, liner systems, and leak detection systems. Requirements for engineering designs, Landfill operation, and response to leaks from the Landfill are also included.

The location of the Landfill is shown at Permit Attachment L1, *Engineering Drawings*, Drawing No. 4. Landfill operations and design are discussed at Permit Attachments A, *General Facility Description and Information*, Section 2.5, *Landfill*; and L, *Engineering Report*, Section 3.0, *Landfill*.

This Permit authorizes only Phase IA of the Landfill, shown at Permit Attachment L1, Drawing No. 8. Phase IA includes approximately 47 acres (outside dimensions) with a fill area of 35 acres, and a capacity of approximately 553,200 cubic yards.

Phase IB, Phase II and Phase III of the Landfill, shown at Permit Attachment L1, Drawing No. 25 or described in Permit Attachment L, Section 3.1.4, are planned for future development. Reference to the Landfill in this Permit means Phase IA only. The Landfill Phase IA is considered one permitted unit. This permit does not authorize Phase IB, Phase II and Phase III of the Landfill.

The Landfill is permitted to receive all hazardous waste accepted at the Facility; however, all waste placed in the Landfill must meet the Land Disposal Restrictions (LDR) treatment standards contained at 20.4.1.800 NMAC (incorporating 40 CFR, Subpart 268). Waste may be received from off-site generators, from the on-site leachate and leak collection systems, and from other activities at the Facility that generate hazardous waste.

A lined Contaminated Water Collection Basin and a lined Stormwater Collection Basin are located immediately south of the Landfill floor, as shown at Permit Attachment L1, Drawing No.

10, to collect run-off from slope areas. Both basins are considered part of the permitted Landfill unit.

The Landfill liner systems cover the entire north slope of the Landfill, the slopes below the access ramps, and most of the Landfill floor. The liners shall be installed in stages as the Landfill expands to cover all surrounding earth that may contact waste or leachate.

The Landfill liner consists of primary and secondary systems. The primary system consists of, from top to bottom, a two-foot layer of protective soil, a geocomposite drainage layer, and a high-density polyethylene (HDPE) geomembrane liner. The geocomposite drainage layer drains to a sump consisting of a pump and leachate collection piping in drainage gravel, providing a Leachate Collection and Removal System (LCRS) to remove leachate from the Landfill. The sump is located in the floor of the geocomposite layer near the center of the Landfill.

The secondary system consists of, from top to bottom, a geocomposite drainage layer, an HDPE geomembrane liner, a geosynthetic clay liner, and six inches of prepared subgrade. A Leak Detection and Removal System (LDRS), similar in design to the LCRS, is located below the primary geomembrane and is designed to detect and remove leachate that passes through the primary liner system. The LDRS sump lies under the LCRS sump.

A vadose zone monitoring system (VZMS) includes a sump located on a geomembrane liner. It is located below the secondary liner and under the LDRS sump. All of the sumps contain pressure transducers to measure the presence and volume of fluids. The LCRS, LDRS, and VZMS are shown at Permit Attachment L1, Drawing No. 17.

Leachate collected in the sumps is pumped to the Leachate Storage Tank, shown at Permit Attachment L1, Drawing No. 19, analyzed, and treated as necessary prior to being disposed in the Landfill.

The VZMS also includes four vadose zone monitoring wells and two neutron probe access tubes, shown at Permit Attachment I, *Vadose Zone Monitoring System Work Plan*, Figure No. 2. The wells are located east of the Landfill and monitor the accumulations of any escaped fluids down gradient from the Landfill. Neutron probe access tubes are located on both the north and west boundaries of the Landfill and monitor releases migrating as unsaturated flow.

The VZMS is described at Permit Part 7. Corrective Action requirements for leakage from the Landfill to the VZMS are described at Permit Part 9.

**1.1 GENERAL REQUIREMENTS FOR THE LANDFILL**

**1.1.1 Permitted Disposal in the Landfill**

**1.1.1.a Hazardous Waste Disposal**

The Permittee shall dispose of hazardous waste only in the Landfill, as identified at Table 6-1, *Permitted Landfill Unit*, and as specified at Permit Attachment A, *General Facility Description and Information*, Section 2.5. The volume of hazardous waste that may be disposed in the Landfill is limited to the maximum capacity identified at Table 6-1, and as specified in Permit Attachment A, Section 2.5.1.1, *Nature and Quantity of Waste*.

**1.1.1.b Polychlorinated Biphenyls**

The Permittee may dispose of non-ignitable liquids with polychlorinated biphenyl (PCB) concentrations of less than 50 parts per million (ppm), soils with PCB concentrations of less than 50 ppm, and bulk PCB-contaminated remediation waste in the Landfill.

**1.1.2 Prohibited Wastes in the Landfill**

The Permittee is prohibited from placing in the Landfill any hazardous waste that does not meet the LDR treatment standards contained at 20.4.1.800 NMAC (incorporating 40 Subpart D).

**1.2 LANDFILL CONSTRUCTION**

**1.2.1 Construction Requirements**

The Permittee shall construct, operate, and maintain the Landfill, including liner systems, water collection basins and ditches, access ramps, and ancillary equipment, as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301) and this Permit, and as follows:

**1.2.1.a Landfill Excavation**

The Permittee shall excavate and prepare the Landfill floor and subsurface sides as specified at Permit Attachment A, Section

2.5.2.2, *Excavation and Preparation of Landfill Bottom and Subsurface Sides*; and Permit Attachment L1, Drawings 7 and 8.

#### **1.2.1.b Liner Systems**

The Permittee shall install and maintain two liners, constructed to prevent any migration of wastes out of the Landfill to the adjacent subsurface soil or ground water, as specified at Permit Attachments A, Section 2.5.1.2, *Liner Systems*; L, Section 3.0; L1, Drawings No. 5 through 12 and 15 through 20; L2, *Specifications for Landfill, Surface Impoundment and Associated Facilities Liner and Cover System Construction*; and M, *Construction Quality Assurance Plan for Landfill, Surface Impoundment and Associated Facilities Construction*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(c)(1) and 264.301(d)(1)).

The Landfill liner systems shall include the following components, from top to bottom:

- a two foot layer of protective soil;
- a geocomposite drainage layer;
- a 60-mil HDPE geomembrane liner;
- a geocomposite drainage layer;
- a 60-mil HDPE geomembrane liner;
- a geosynthetic clay liner, consisting of at least three feet of compacted clay having a permeability not greater than  $10^{-7}$  cm/sec; and
- six inches of prepared subgrade.

The Permittee shall stage construction of the Landfill liner as specified at Permit Attachment L, Section 3.1.4, *Waste Filling Sequence*.

#### **1.2.1.c LCRS**

The Permittee shall install and maintain an LCRS above the primary system HDPE geomembrane liner, to consist of the geocomposite LCRS drainage layer and sump, pump, and piping, to collect and remove leachate, as specified at Permit Attachments A, Section 2.5.1.3, *Leachate Collection and Removal System*

(LCRS); L, Sections 3.1.3, *Subgrade Excavation, Liner System, LCRS, LDRS, and Vadose Sump Design*, and 3.2, *Landfill Design Analyses*; L1, Drawings Nos. 12 and 15 through 20; L2; and M; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(c)(2)).

The sump, sump piping, slope riser pipes, crest riser pad, and vertical riser shall be constructed as specified at Permit Attachment L, Sections 3.1.3 and 3.2. The sump and pump shall have the capacity identified at Permit Attachment L, Section 3.1.3, Table 2, *Landfill Sump Arrangement Summary*.

#### **1.2.1.d LDRS**

The Permittee shall install and maintain an LDRS between the primary and secondary HDPE geomembrane liners, to consist of the geocomposite LDRS drainage layer and sump, pump, and piping, to detect and remove leachate that may pass through all areas of the primary liner, as specified at Permit Attachments A, Section 2.5.1.4, *Leak Detection and Removal System (LDRS)*; L, Sections 3.1.3 and 3.2; L1, Drawings Nos. 12 and 15 through 20; L2; and M; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(c)(3)). The sump and pump shall have the capacity identified at Permit Attachment L, Section 3.1.3, Table 2.

#### **1.2.1.e VZMS Sump**

The Permittee shall install and maintain a vadose zone sump system below the Landfill liners to serve as a detection system for leakage of the LDRS, as specified at Permit Attachments A, Section 2.5.1.5, *Vadose Zone Monitoring System (VZMS)*; L, Sections 3.1.3 and 3.2; L1, Drawings Nos. 16 through 18; and M. The sump and pump shall have the capacity identified at Permit Attachment L, Section 3.1.3, Table 2.

#### **1.2.1.f Access Ramps**

The Permittee shall construct two 30 feet wide, 10 percent grade, access ramps on the east and west sides of the Landfill to the floor surface as specified at Permit Attachments L, Sections 2.1.3, *Facility Traffic Plan*, 3.1.2, *Landfill Layout and Phasing*, 3.2, and 3.2.6, *Access Ramp Design*; and L1, Drawings Nos. 10 and 14.

The Permittee shall construct an access ramp in the south slope, in accordance with Permit Attachment L, Section 3.1.4, *Waste Filling Sequence*; and as shown at Permit Attachment L1, Drawing

No. 8; with the approximate same dimensions and slope as the access ramps constructed on the east and west slopes, when needed to provide access to the south end of the Landfill Phase IA (i.e., when lining of the south end of the Landfill Phase IA begins).

The Permittee shall notify the Secretary in writing 60 days prior to initiating construction of the south access ramp.

**1.2.1.g Run-On/Run-Off Controls**

**1.2.1.g.i Landfill Stormwater Collection Basin**

The Permittee shall construct a Stormwater Collection Basin near the toe of the cut slope of the Landfill floor, as specified at Permit Attachments A, Section 2.5.1.6, *Run-On/Run-Off Control*; L, Sections 3.1.6, *Landfill Storm Water Control Features*, and 3.2.10, *Surface Water Drainage Analysis*; and L1, Drawings Nos. 13, 14, and 25; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(g)). The Stormwater Collection Basin shall be lined with an HDPE liner, as shown at Permit Attachment L1, Drawing No. 13.

The Permittee shall provide the Secretary with 60 days prior written notice if the Stormwater Collection Basin is removed preparatory to the disposal of waste in the southern part of the Landfill during Phase IA of Facility operations.

**1.2.1.g.ii Landfill Contaminated Water Collection Basin**

The Permittee shall construct a Contaminated Water Collection Basin north of the Stormwater Collection Basin on the floor of the Landfill, as discussed at Permit Attachments A, Section 2.5.1.6; and L, Section 3.2.10; and as shown at Permit Attachment L1, Drawing No. 10; to collect possible contaminated run-off from the Landfill. The Contaminated Water Collection Basin shall be located on the Landfill liner systems.

The Permittee shall provide the Secretary with 60 days prior written notice if the Contaminated Water Collection Basin is removed preparatory to the disposal of waste in the southern part of the Landfill during Phase IA of Facility operations.

**1.2.1.g.iii Stormwater Collection Basin Berms**

The Permittee shall construct the berm separating the Stormwater Collection Basin and the Contaminated Water Collection Basin,

and the berm on the south slope of the Landfill, as shown at Permit Attachment L1, Drawings Nos. 9 and 13, with sufficient structural integrity to prevent failure, and using the construction specifications contained at Permit Attachment L2.

**1.2.1.g.iv Perimeter Ditches**

The Permittee shall construct perimeter ditches located on either side of the Landfill perimeter road to intercept run-off from areas outside of the Landfill and to divert this water to the Facility Stormwater Detention Basin located west of the Surface Impoundment (see Permit Attachment L1, Drawing No. 4), as specified at Permit Attachment L, Section 3.1.6; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(h)). The perimeter ditches shall be constructed as specified at Permit Attachment L1, Drawing No. 25 (2 of 2).

**1.2.1.g.v Run-On Diversion**

The Permittee shall construct HDPE-lined ditches on the side of the access ramps to divert run-off from the slope areas above the access ramps and from the cut slope area to the Stormwater Collection Basin, as described at Permit Attachments A, Section 2.5.1.6; and L, Section 3.1.6; and as shown at Permit Attachment L1, Drawings 10 and 14. The ditches shall be constructed as shown at Permit Attachment L1, Drawings 13, 14, and 25 (2 of 2). The Permittee shall operate the Landfill so that any runoff from the active waste filling area will drain to the Contaminated Water Collection Basin located within the Landfill as shown at Permit Attachment L1, Drawing 10.

**1.2.1.h Vadose Zone Monitoring Wells**

The Permittee shall construct four deep and two neutron probe access tubes to monitor fluids released from the Landfill in accordance with Permit Condition 7.2.1.a and 7.2.1.d; and as specified at Permit Attachment I, Section 2.2.2, *Vadose Zone Monitoring Well Construction*.

**1.2.2 CQA Program**

The Permittee shall implement the Construction Quality Assurance Plan contained at Permit Attachment M under the direction of a Construction Quality Assurance (CQA) officer who is a professional engineer registered in New Mexico to ensure that all construction required under Permit Condition 6.2 meets or

exceeds all design criteria and specifications of this Permit, as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.19(a)).

### **1.3 GENERAL LANDFILL OPERATING REQUIREMENTS**

#### **1.3.1 Operation and Maintenance of the Landfill**

The Permittee shall operate and maintain the Landfill as specified at Permit Attachments A, Section 2.5.3, *Operation*; L, Sections 3.1.4 and 3.1.5, *Final Cover*; and N, *Operations and Maintenance Plan*, Sections 3.4, *Landfill Operation*, and 4.1, *Landfill*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264, Subpart N) and this Permit.

#### **1.3.2 Placement of Waste in the Landfill**

The Permittee shall manage the Landfill waste placement operation based on a series of grids along the north end of the Landfill and along both the east and west sides of the Landfill, as specified at Permit Attachment A, Section 2.5.3.7, *Procedures for Protecting Wastes*. This two-dimensional grid system, together with a vertical waste tracking system that counts the number of lifts between potentially incompatible wastes, and the thickness of those lifts, shall be used to ensure that the minimum spacing of incompatible waste is at least the 50 feet required by Permit Condition 6.9.

#### **1.3.3 Daily Cover**

The Permittee shall ensure that a daily soil cover with a minimum thickness of 0.5 foot is placed on the active waste placement area of the Landfill to control wind dispersal of particulate matter, as specified at Permit Attachments A, Section 2.5.1.7, *Wind Dispersal Control Procedures*; and N, *Operations and Maintenance Plan*, Section 3.4.3, *Waste Placement*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(j)).

#### **1.3.4 Management of Run-On/Run-Off**

##### **1.3.4.a Collection Basins**

The Permittee shall ensure that run-on and run-off is pumped out of the Stormwater Collection Basin and the Contaminated Water Collection Basin within 24 hours after a storm event, or otherwise manage these basins to maintain the design capacity of the systems, as specified at Permit Attachment A, Section

2.5.1.6, and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(i)).

**1.3.4.b Standing Water**

The Permittee shall ensure that standing water that collects on the Landfill floor is pumped out within 24 hours after a storm event, as specified at Permit Attachment A, Section 2.5.1.6; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(g)).

**1.3.5 Leachate**

If leachate collected from the Landfill leak detection systems, which includes the LCRS, the LDRS, and possibly the VZMS, meets LDR treatment standards, then the Permittee shall treat the leachate in the Surface Impoundment or Stabilization Tank to remove all free liquids, as appropriate, and, if the leachate residue continues to meet LDR treatment standards, dispose of the treated leachate residue in the Landfill. If the leachate does not meet LDR treatment standards, the Permittee shall either treat the leachate in the Stabilization Tank to remove all free liquids and attain the LDR Treatment Standards as specified in Permit Part 4, or shall ship the leachate off-site to an appropriate permitted hazardous waste management facility, in compliance with all applicable regulations for generation and transport of hazardous waste.

**1.4 WASTE ANALYSIS**

**1.4.1 Waste Characterization**

The Permittee shall ensure that all waste placed in the Landfill meets the waste analysis requirements specified at Permit Attachment F, *Waste Analysis Plan*, Section 4.5.5.5, *Waste Analysis Requirements Specific to the Landfill*; and Permit Conditions 6.8 through 6.10.

**1.4.2 Annual Analysis**

At least annually, the Permittee shall randomly sample and analyze a minimum of 10 percent of incoming waste streams that are to be directly landfilled to verify compliance with the LDR treatment standards, as specified at Permit Attachment F, Section 4.5.5.5.

### **1.4.3 Leachate**

#### **1.4.3.a Leak Detection Systems Sampling and Analysis**

The Permittee shall sample and analyze the leachate collected from the Landfill LDRS, LCRS, and VZMS sump in accordance with Permit Conditions 6.5.2.d and Permit Attachment F, Section 4.5.6, *Waste Analysis Requirements for Waste Generated On-Site*, for all the multisource leachate (EPA Hazardous Waste Number F039) constituents listed in the Table contained at 20.4.1.800 NMAC (incorporating 40 CFR 268.40).

#### **1.4.3.b VZMS Well Sampling and Analysis**

The Permittee shall sample and analyze any fluid collected from the VZMS monitoring wells in accordance with Permit Conditions 6.6.2, 7.3.2.a, and 7.3.2.b. Sampling and analysis shall be performed over the time period specified at Permit Condition 7.1.4.

### **1.5 LEAKS, SPILLS, AND LEACHATE MANAGEMENT**

#### **1.5.1 Spills and Releases**

The Permittee shall ensure that spills and releases to the surface environment are contained and remediated in a timely manner.

#### **1.5.2 Leachate Removal**

##### **1.5.2.a Removal of Leachate from the LCRS and LDRS**

The Permittee shall remove pumpable liquids from the LCRS and LDRS sumps whenever monitoring indicates the presence of liquid to prevent the hydraulic head on the bottom liner from exceeding 12 inches, as specified at Permit Attachment N, Section 3.4.4, *Operation of Leachate Collection and Detection Systems*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.301(c)(4)).

##### **1.5.2.b Removal of Leachate from the VZMS Sump**

The Permittee shall remove pumpable quantities of leachate (if any) from the VZMS sump as specified at Permit Attachment I, Section 4.0, *Monitoring Procedures*.

### **1.5.2.c Leachate Storage**

Leachate removed from the Landfill LCRS, LDRS, and VZMS sump shall be stored in the Leachate Storage Tank, as specified at Permit Attachment F, Section 4.5.6, *Waste Analysis Requirements for Waste Generated On-site*.

### **1.5.2.d Leachate Sampling**

The Permittee shall ensure that sampling and analysis of leachates removed from the LCRS, LDRS, and the VZMS sump at the base of the Landfill occurs before this leachate is commingled with fluids from any other unit, including VZMS wells and the Surface Impoundment, to ensure representative samples for the purpose of establishing the indicator parameters required at Permit Condition 7.3.2. Leachate from the Landfill LDRS, LCRS, and the VZMS sump at the base of the Landfill may be commingled before sampling and analysis, unless it is necessary to identify the location of the source of the fluids entering the LDRS and the VZMS sump.

### **1.5.3 Action Leakage Rate**

The Action Leakage Rate (ALR) for the Landfill, as approved by the Secretary in accordance with 20.4.1.500 NMAC (incorporating 40 CFR 264.302(a)), is 900 gallons per acre per day (gpad) as measured in the LDRS sump, as specified at Permit Attachment A, Section 2.5.3.8, *Action Leakage Rate*; Permit Attachment J, *Action Leakage Rate and Response Action Plan*, Section 5.2, *Determination of Action Leakage Rate: Landfill*.

To determine if the ALR has been exceeded, the Permittee shall determine the average daily flow rate on a weekly basis during the active life and closure period of the Landfill, and monthly during the post-closure care period, as specified at Permit Attachment J, Section 5.4, *Determination If the Action Leakage Rate Is Exceeded*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.302(b)).

### **1.5.4 Flow Rates Less than or Equal to the ALR**

The Permittee shall respond to leakage less than or equal to the ALR as specified at Permit Attachment A, Section 2.5.3.9, *Response Action Plan*.

### **1.5.5 Flow Rates Greater than the ALR**

The Permittee shall respond to leakage greater than the ALR as specified at Permit Attachment J, Section 7.0, *Response Actions*; and as required by 20.4.1.500 NMAC, (incorporating 40 CFR 264.304(b)(3) through (b)(5) and (c)). The Permittee shall also immediately inspect each monitoring point in the VZMS for fluids in accordance with Permit Condition 7.4.1.b, as specified at Permit Attachment I, Section 4.2, *Response Actions*, and shall increase the frequency of inspection of the VZMS wells from monthly to weekly in accordance with Permit Condition 7.4.1.b.

## **1.6 INSPECTION AND MONITORING PROCEDURES**

### **1.6.1 Inspection Requirements**

#### **1.6.1.a General Inspection Requirements**

The Permittee shall inspect the Landfill, including the liner and leachate collection systems, and ancillary equipment, as specified at Permit Attachments D, Section 5.2.2, *Landfill Inspection Procedures*; and D1, *Inspection Schedules and Checklists*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.303).

#### **1.6.1.b Inspections during Construction**

The Permittee shall inspect the liners and cover systems of the Landfill during construction and installation for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, or foreign materials), as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.303(a)).

#### **1.6.1.c Inspections after Construction**

The Permittee shall inspect the liners and cover systems of the Landfill immediately after installation or construction as required by 20.4.1.500 NMAC, (incorporating 40 CFR 264.303(a)(1) and (2)), as follows:

- the Permittee shall inspect all synthetic liners and covers to ensure tight seams and joints and the absence of tears, punctures, or blisters; and
- the Permittee shall inspect soil-based and admixed liners and covers for imperfections including lenses, cracks, channels, root holes,

or other structural nonuniformities that may cause an increase in the permeability of the liner or cover.

#### **1.6.1.d Inspections during Operation**

The Permittee shall inspect the Landfill weekly and after storms, as specified at Permit Attachment D1, and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.303(b)), to detect evidence of any of the following:

- deterioration, malfunctions, or improper operation of run-on and run-off systems; and
- improper functioning of wind dispersal control systems.

#### **1.6.2 Monitoring Requirements**

The Permittee shall monitor the Landfill LCRS, LDRS, and VZMS daily, the Landfill vadose zone monitoring wells monthly, and the Landfill neutron probe access tubes twice annually for the presence of liquids and to detect evidence of deterioration or malfunction of the systems during the active life of the Landfill in accordance with Permit Condition 7.4.1. The Permittee shall monitor and record the Landfill sumps during the post-closure care period according to the schedule specified at Permit Attachment J, Section 6.0, *Leak Detection and Removal System Monitoring*; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.303(c)(2)); and shall monitor the vadose zone monitoring wells and neutron probe access probes semi-annually, as specified at Permit Attachment I, Section 4.1, Table 2, *Monitoring Frequency*.

If liquids are present, the Permittee shall implement Permit Condition 7.4.2 and sample and analyze the liquids as specified at Permit Attachments F, Section 4.5.6; and I, Section 4.4, *Sample Collection*. The Permittee shall remove and properly dispose of all liquids collected, as specified at Permit Attachment I, Section 4.2.

## **1.7 RECORDKEEPING AND REPORTING**

### **1.7.1 Recordkeeping Requirements**

The Permittee shall follow the recordkeeping requirements for the Landfill specified at Permit Attachment N, Section 3.4.1, *Records*. Records kept shall include, but are not limited to:

#### **1.7.1.a Grid "Cell" Location**

The Permittee shall maintain the following items in the Operating Record, in accordance with Permit Condition 2.12.1.m; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.73(b)(2) and 40 CFR 264.309):

- a map with the exact location and dimensions including depth, of each grid "cell" in the three-dimensional grid system required under Permit Condition 6.3.2, with respect to permanently surveyed benchmarks; and
- the contents in each grid "cell" and the approximate location of each hazardous waste type within each grid "cell".

#### **1.7.1.b Inspection Logs**

The Permittee shall keep in the Operating Record the inspection logs and other records for the inspections conducted in accordance with Permit Condition 6.6.1 for a minimum of three years, in accordance with Permit Condition 2.7.3, and as required by 20.4.1.500 NMAC, (incorporating 40 CFR 264.15(d) and 264.73(b)(5)).

#### **1.7.1.c LDRS, LCRS, and VZMS Monitoring Data**

The Permittee shall keep records for the LDRS, LCRS, and VZMS monitoring conducted in accordance with Permit Condition 6.6.2, including a record of the amount of liquids removed during the active life, closure, and post-closure care periods of the Landfill, in accordance with Permit Condition 2.12.1.k.i; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.303(c)(1)). These records shall be retained until the Secretary has approved the completion of post-closure care for the Landfill.

## **1.7.2 Reporting Requirements**

### **1.7.2.a Waste Identification and Location within the Landfill**

The Permittee shall submit current information on the grid "cell" map, required under Permit Condition 6.7.1.a, to the Secretary quarterly. The Permittee shall submit the identification of waste placed in each cell in terms of the grid coordinates, to the Secretary. This information shall be included in the Quarterly Report required under Permit Condition 2.12.2.b.

### **1.7.2.b Ignitable, Reactive, or Incompatible Waste**

The Permittee shall document and place in the Operating Record the evidence of compliance with the requirements for ignitable, reactive, and incompatible waste contained at Permit Conditions 6.8 and 6.9; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.17(c) and 264.73(b)(3)), using references to published scientific or engineering literature, using data for trial tests, waste analyses, and/or the results of the treatment of similar wastes by similar treatment processes.

### **1.7.2.c Response Actions**

If the flow rate into any leak detection system exceeds the ALR, the Permittee shall, as specified at Permit Attachment J, Section 7.0, and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.304(b)(1), (b)(2), and (b)(6)):

- notify the Secretary in writing of the exceedance within seven calendar days of the determination;
- submit a preliminary written assessment to the Secretary within 14 calendar days of the determination as to the amount of liquids, likely source of liquids, possible location, size, and cause of any leaks, and short-term actions taken and planned; and
- submit to the Secretary the results of the analysis required under Permit Condition 6.5.5, the results of actions taken, and actions planned within 45 calendar days of the determination. Monthly thereafter, the Permittee shall, as long as the flow rate in the LDRS exceeds the ALR,

submit to the Secretary a report summarizing the results of any remedial actions taken and actions planned.

### **1.7.3 Landfill CQA Certification**

Prior to the initiation of operations at the Facility, the Permittee shall submit a certification to the Secretary signed by the CQA officer that the approved CQA Plan has been successfully carried out and that the Landfill meets all regulatory requirements, in accordance with Permit Conditions 1.5.9.c.i and 1.10; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.19(d)). The certification shall also attest that the Secretary's inspection, provided for at Permit Condition 1.5.9.c.ii, has been either completed or waived. The Permittee shall furnish documentation supporting this certification to the Secretary upon request.

### **1.8 SPECIAL LANDFILL PROVISIONS FOR IGNITABLE OR REACTIVE WASTES**

The Permittee shall not place ignitable or reactive waste in the Landfill, unless the waste meets all applicable requirements contained at 20.4.1.500 NMAC (incorporating 40 CFR 264.17(b)) and 20.4.1.800 NMAC (incorporating 40 CFR Part 268), and the ignitable or reactive waste has been treated so that it no longer meets the definition of ignitable or reactive waste contained at 20.4.1.200 NMAC (incorporating 40 CFR 261.21 or 261.23), as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.312). The Permittee shall also comply with the procedures for managing ignitable or reactive waste contained at Permit Attachment A, Section 2.5.3.6, *Specific Requirements for Ignitable/Reactive Wastes*.

### **1.9 SPECIAL LANDFILL PROVISIONS FOR INCOMPATIBLE WASTES**

The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same Landfill grid "cell", in accordance with the procedures specified at Permit Attachment A, Section 2.5.3.7, *Procedures for Protecting Wastes*, and at 20.4.1.500 NMAC (incorporating 40 CFR 264.17(b)), as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.313). Incompatible waste shall be placed with a minimum of one grid distance (50 feet) horizontally, vertically, and diagonally between the wastes, as specified at Permit Attachment A, Section 2.5.3.7.

## **1.10 DISPOSAL REQUIREMENTS FOR SPECIFIC WASTE TYPES**

### **1.10.1 Free Liquids**

#### **1.10.1.a Bulk or Non-Containerized Free Liquids**

The Permittee shall not place bulk or non-containerized free liquids or waste containing free liquids (e.g., Leachate) in the Landfill, as specified at Permit Attachment F, Section 4.5.5.5, as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.314(b)).

#### **1.10.1.b Containers Holding Free Liquids**

The Permittee shall not place containers holding free liquid in the Landfill, unless one of the following conditions is met, as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.314(d)):

- all free-standing liquid: (i) has been removed by decanting or other methods; (ii) has been mixed with absorbent or solidified so that free-standing liquid is no longer observed; or (iii) has been otherwise eliminated;
- the container is no larger than an ampule;
- the container is designed to hold free liquids for use other than storage (e.g., a battery or capacitor); or
- the container is a lab pack as defined at 20.4.1.500 NMAC (incorporating 40 CFR 264.316), and is disposed in accordance with Permit Condition 6.10.2.

#### **1.10.2 Lab Packs**

The Permittee shall ensure that small containers of hazardous waste in overpacked drums (lab packs) are disposed in the Landfill as specified at Permit Attachment A, Section 2.5.3.7, and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.316).

#### **1.10.3 Hazardous Debris**

The Permittee shall not place hazardous debris in the Landfill unless it has been treated by the generator and the generator

has certified that the debris meets the LDR treatment standards specified at 20.4.1.800 NMAC (incorporating 40 CFR 268.45), as specified at Permit Attachment F, Section 4.5.5.5.

#### **1.10.4 Contaminated Soil**

The Permittee shall place contaminated soil in the Landfill only in accordance with all the requirements of 20.4.1.800 NMAC (incorporating 40 CFR 268.49).

#### **1.11 SPECIFIC PROVISIONS FOR EMPTY CONTAINERS**

The Permittee shall not dispose of any containers that are larger than ampules in the Landfill unless they are at least 90 percent full when placed in the Landfill or they are crushed, shredded, or similarly reduced in volume to the maximum practical extent before placement in the Landfill, as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.315).

#### **1.12 CLOSURE**

The Permittee shall conduct closure activities for the Landfill as specified at Permit Attachment O, *Closure Plan*, Section 8.1.6, *Landfill*, and other pertinent sections; and in accordance with Permit Part 8; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264.310). The Permittee shall follow the time frame for closure specified at Permit Attachment O1, *Compliance Schedules for Closure*.

#### **1.13 POST-CLOSURE CARE PLAN**

The Permittee shall conduct post-closure care activities for the Landfill as specified at Permit Attachment P, *Post-Closure Care*, Section 8.2, *Post-Closure Activities*, and other applicable sections; and in accordance with Permit Part 8; and as required by 20.4.1.500 NMAC (incorporating 40 CFR 264, Subpart G and 40 CFR 264.310).

**TABLE 6-1**

**PERMITTED LANDFILL UNIT**

<b>Unit</b>	<b>Dimensions (feet)</b>	<b>Capacity (Cubic Yards)</b>	<b>Surface Area (Acres)</b>
Landfill Phase IA	1,050 long x 1,050 wide x 100 deep	553,200	35