

HAZARDOUS WASTE PERMIT NO. 50358 EPA ID. NO. TX988088464 ISWR NO. 50358

Texas Commission on Environmental Quality Austin, Texas

PERMIT FOR INDUSTRIAL SOLID
WASTE MANAGEMENT SITE issued
under provisions of TEXAS HEALTH
AND SAFETY CODE ANN.
Chapter 361 (Vernon)

Name of Permittee:

Waste Control Specialists LLC

P.O. Box 1129

Andrews, Texas 79714

Site Owner:

Waste Control Specialists LLC

P.O. Box 1129

Andrews, Texas 79714

Registered Agent for Service:

Corporation Service Company

800 Brazos

Austin, Texas 78701

Classification of Site:

Hazardous and Nonhazardous Class 1, Class 2, and Class 3

industrial solid waste, off-site storage, processing, and disposal,

commercial facility.

The permittee is authorized to manage wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules of the Commission and other Orders of the Commission, and laws of the State of Texas. This permit does not exempt the permittee from compliance with the Texas Clean Air Act. This permit will be valid until canceled, amended, modified or revoked by the Commission, except that the authorization to store, process and dispose of wastes shall expire midnight, 10 years after the date of renewal permit approval. This permit was originally issued on August 5, 1994.

All provisions in this permit stem from State and/or Federal authority. Those provisions marked with an asterisk (*) stem from Federal authority and will implement the applicable requirements of HSWA for which the Texas Commission on Environmental Quality has not been authorized. Those provisions marked with a double asterisk (**) stem from federal authority only.

ISSUED:

OCT 05 2005

For The Commission

TCEQ-0080 (Rev. 10-09-03)

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I. FACILITY DESCRIPTION

A. Size and Location of Site

A permit is issued to Waste Control Specialists LLC (hereafter called the permittee), to operate a hazardous waste processing, storage, and disposal facility located one mile north of Highway 176 and 400 feet East of the Texas-New Mexico state line and approximately 30 miles West of Andrews, in Andrews County, Texas, drainage area of Segment 2311 in the Rio Grande River Basin (North Latitude 32° 26' 27.4 ", West Longitude 103° 3' 22.7"). The legal description of the facility submitted in Permit No. 50358 application dated February 9, 2004, is hereby made a part of this permit as "Attachment A". The hazardous waste management facility as delineated by the permittee's application map is hereby made a part of this permit as "Attachment B".

B. <u>Incorporated Application Materials</u>

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1¹ Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 11 Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East +West Landfill Unit), December 17, 2010 (Class 1 Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1¹ Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1

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[I.B cont]

Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency Coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised September 16, 2013, December 4, 2013, and January 10, 2014 (Class 3 Modification to reduce the surface area of the landfill) March 26, 2014 (Class 11 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014(Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3.-emergency equipment in the Contingency Plan), September 3, 2015, and revised September 11, 2015 (Class 11 Modification to add metal enclosure over Bin Storage Area (BSA) -2 and BSA-3 of permitted BSU-1), and January 27, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan) May 9, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and May 17, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

These materials are incorporated into this permit by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this permit upon the date of approval by the Commission.

II. GENERAL FACILITY STANDARDS

A. Standard Permit Conditions

The permittee has a duty to comply with the Standard Permit Conditions under 30 Texas Administrative Code (TAC) Section 305.125. Moreover, the permittee has a duty to comply with the following permit conditions:

Modification of Permitted Facilities

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[II.A.1 cont]

The facility units and operational methods authorized are limited to those described herein and by the application submittals identified in <u>Provision I.B.</u> All facility units and operational methods are subject to the terms and conditions of this permit and TCEQ rules. Prior to constructing or operating any facility units in a manner which differs from either the related plans and specifications contained in the permit application or the limitations, terms or conditions of this permit, the permittee must comply with the TCEQ permit amendment/modification rules as provided in 30 TAC Sections 305.62 and 305.69.

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2. Duty to Comply

The permittee must comply with all the conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the Commission. Any permit noncompliance, other than noncompliance authorized by an emergency order, constitutes a violation of Resource Conservation and Recovery Act (RCRA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [30 TAC Section 305.142]

3. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

4. Definitions

For purposes of this permit, terms used herein shall have the same meaning as those in 30 TAC Chapters 305, 335, and 350 unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

Application data - data used to complete the final application and any supplemental information.

5. Permit Expiration

In order to continue a permitted activity after the expiration date of the permit the permittee shall submit a new permit application at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the Executive Director. Authorization to continue such activity will

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[II.A.5 cont]

terminate upon the effective denial of said application.

6. Certification Requirements for a new facility, the permittee may not commence storage, processing, or disposal of solid waste; and for a facility being modified, the permittee may not process, store or dispose of solid waste in the modified portion of the facility, except as provided in 30 TAC Section 305.69 (relating to Solid Waste Permit Modification at the Request of the Permittee) until the following has been accomplished [30 TAC Section 305.144]:

a. The permittee has submitted to the Executive Director and the local Regional Office of the TCEQ, by certified mail or hand delivery, a letter signed by the permittee, and signed and sealed by a Texas licensed Professional Engineer stating that the facility has been constructed or modified in compliance with the permit. If the certification is being provided to document proper closure of a permitted unit, or to certify installation or repair of a tank system, then the certification must be signed and sealed by an independent Texas licensed Professional Engineer.

Required certification shall be in the following form:

"This is to certify that the following activity (Specify activity, e.g., construction, installation, closure, etc., of an item) relating to the following item (Specify the item, e.g., the particular facility, facility unit, unit component, subcomponent part, or ancillary component), authorized or required by TCEQ Permit No. 50358, has been completed, and that construction of said facility component has been performed in accordance with and in compliance with good engineering practices and the design and construction specifications of Permit No. 50358."

- b. A certification report has been submitted, with the certification described in Provision II.A.6.a., which is logically organized and describes in detail the tests, inspections, and measurements performed, their results, and all other bases for the conclusion that the facility unit, unit component, and/or closure have been constructed, installed and/or performed in conformance with the design and construction specifications of this permit and in compliance with this permit. The report shall describe each activity as it relates to each facility unit or component being certified including reference to all applicable permit provisions. The report shall contain the following items, at a minimum:
 - (1) Scaled, as-built plan-view and cross-sectional drawings which accurately depict the facility unit and all unit components and

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[II.A.6.b.1 cont]

subcomponents and which demonstrate compliance with the design and construction specifications approved and detailed in the terms of this permit;

- (2) All necessary references to dimensions, elevations, slopes, construction materials, thickness and equipment; and
- (3) For all drawings and specifications, the date, signature, and seal of a Professional Engineer who is licensed in the State of Texas.
- c. The Executive Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or if within 15 days of submission of the letter required by paragraph (a) of this section, the permittee has not received notice from the Executive Director of the intent to inspect, prior inspection is waived and the permittee may commence processing, storage, or disposal of solid waste.

Land Disposal Restrictions

The permittee shall comply with the land disposal restrictions as found in 40 CFR 268 and any subsequent applicable requirements promulgated through the Federal Register. Requirements include modifying/amending the permittee's waste analysis plan to include analyses to determine compliance with applicable treatment standards or prohibition levels, pursuant to 40 CFR 268.7(c) and 264.13(a).

8. Dust Suppression

Pursuant to 40 CFR 266.23(b)/30 TAC Section 335.214(b), the permittee shall not use waste, used oil, or any other material which is contaminated with dioxin, polychlorinated biphenyls (PCBs), or any other hazardous waste (other than a waste identified solely on the basis of ignitability) for dust suppression or road treatment except leachate used as a dust suppressant within the landfill in accordance with permit Provision III.F.

9. Permit Reopener

This permit shall be subject to review by the Executive Director five (5) years from the date of permit issuance or reissuance and shall be modified as necessary to assure that the facility continues to comply with currently applicable requirements of the Solid Waste Disposal Act (SWDA) and the rules and regulations of the Commission. The permittee shall submit any information as may be reasonably required by the Executive Director to ascertain whether the facility continues to comply with currently applicable requirements of the SWDA and the rules and regulations of the

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[II.A.9 cont]

Commission.

10. Texas Coastal Management Program

Reserved

11. Monitoring of Commercial Hazardous Waste Management Facility Operations
Within the first year after Commission action on this permit, the permittee shall
provide notice to affected persons of the intent to have an independent annual
environmental audit of the facility performed. The notice shall be issued in
accordance with the requirements of 30 TAC Section 305.147(1). If an affected
party requests the audit, then the permittee must follow the requirements of 30 TAC

Section 305.147(2)-(6), and (8), for selecting an independent inspector, paying for the notice and audit, submission of a written report, and determining the scope of the inspection.

Failure to Submit Relevant Facts in Permit Application

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the Executive Director, the permittee shall promptly submit the correct information or facts to the Executive Director. [30 TAC Section 305.125(19)]

13. Hazardous Waste Combustion Facility Provision

Reserved

B. Recordkeeping and Reporting Requirements

- Monitoring and Records
 - a. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation Recovery Act and Underground Injection Control" (TCEQ QAPP).
 - b. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity. The method used to obtain a representative sample of the material to be analyzed shall be the appropriate method from Appendix I of 40 CFR Part 261 or an

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[II.B.1.b cont]

equivalent method approved in writing prior to use by the Executive Director of the TCEQ. Laboratory methods shall be those specified in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, SW-846, 1987 (EPA SW-846), as revised; *Standard Methods for the Examination of Water and Wastewater*, 18 th Edition, 1992, and 18 th Edition supplement, 1994, or current adopted edition; RCRA Ground-

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Water Monitoring: Draft

Technical Guidance, 1992, OSWER Directive 9950.1, or an equivalent method, as specified in the Waste Analysis Plan, <u>Attachment IV.D.</u> of the Part B Application, and approved in writing prior to use by the Executive Director. [30 TAC Section 305.125(11)(A)]

- c. The permittee shall retain in an organized fashion and furnish to the Executive Director, upon request, records of all monitoring information, copies of all reports and records required by this permit, and the certification required by 40 CFR 264.73(b)(9), for a period of at least 3 years from the date of the sample, measurement, report, record, certification, or application [30 TAC Section 305.125(11)(B)].
- d. Records of monitoring shall include the following [30 TAC Section 305.125(11)(c)]:
 - (1) The date, time, and place of sample or measurement;
 - (2) The identity of individual who collected the sample or measurement;
 - (3) The dates analyses were performed;
 - (4) The identity of individual and laboratory who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses or measurements.

2. Operating Record

In addition to the recordkeeping and reporting requirements specified elsewhere in this permit, the permittee shall maintain a written operating record at the facility, in accordance with 40 CFR 264.73. These records will be made available to representatives of the TCEQ upon request.

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[II.B cont.)]

3. Retention of Application Data

A permittee shall keep records throughout the term of the permit of data used to complete the final application and any supplemental information. All copies of renewals, amendments, revisions and modifications must also be kept at the facility such that the most current documents are available for inspection at all times. All materials, including any related information, submitted to complete the application shall be retained, not just those materials which have been incorporated into the permit. [30 TAC Section 305.47]

4. Reporting of Noncompliance

The permittee shall report to the Executive Director of the TCEQ information regarding any noncompliance which may endanger human health or the environment. [30 TAC Section 305.125(9)]

- a. Report of such information shall be provided orally within 24 hours from the time the permittee becomes aware of the noncompliance.
- b. A written submission of such information shall also be provided within five days of the time the permittee becomes aware of the noncompliance. The written submission shall contain the following:
 - (1) a description of the noncompliance and its cause;
 - (2) the potential danger to human health or safety, or the environment;
 - (3) the period of noncompliance, including exact dates and times;
 - (4) if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - (5) steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance, and to mitigate its adverse effects.

5. Twenty-Four Hour Reporting

The following shall be included as information which must be reported orally within 24 hours pursuant to Title 30 TAC Section 305.125(9) [30 TAC Section 305.145]:

 Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies;

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[II.B.5. cont]

b. Any information of a release or discharge of solid waste, or of a fire or explosion which could threaten the environment or human health or safety, outside the facility. The description of the occurrence and its cause shall include:

- (1)name, address, and telephone number of the owner or operator;
- (2)name, address, and telephone number of the facility;
- (3)date, time, and type of incident;
- (4) name and quantity of material(s) involved;
- (5)the extent of injuries, if any;
- (6)an assessment of actual or potential hazards to the environment and human health or safety outside the facility, where this is applicable; and
- (7)estimated quantity and disposition of recovered material that resulted from the incident.

6. Notice Waiver

The Executive Director may waive the five-day written notice requirement specified in Provision II.B.4.b. in favor of a written report submitted to the Commission within 15 days of the time the permittee becomes aware of the noncompliance or condition. [30 TAC Section 305.145(b)]

7. Biennial Report

The permittee shall prepare and submit to the Executive Director all information and records required by 40 CFR 264.75. By March 1st of each even-numbered year for the preceding odd-numbered year's activities the permittee shall submit either a Biennial Report or letter certifying submission of the above. One copy of the report/letter shall be submitted to the TCEQ Industrial and Hazardous Waste Permits Section and an additional copy shall be submitted to the appropriate TCEQ Regional Office.

8. Pollution Prevention

Facilities subject to 30 TAC Chapter 335, Subchapter Q - Pollution Prevention: Source Reduction and Waste Minimization, must prepare a five year Source

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[II.B.8. cont]

Reduction and Waste Minimization Plan and submit a <u>Source Reduction and Waste Minimization Annual Report</u> (SR/WM Annual Report) to the TCEQ Small Business and Environmental Assistance Division. This report must be submitted annually on the dates specified in the rule.

9. Waste Minimization

The permittee shall annually certify, by January 25th for the previous calendar year, the following information, [40 CFR 264.73(b)(9)]:

- a. that the permittee has a program in place to reduce the volume and toxicity of all hazardous wastes which are generated by the permittee's facility operation to the degree determined to be economically practicable; and
- b. that the proposed method of treatment, storage, or disposal is that practicable method currently available to the permittee which minimizes the present and future threat to human health and the environment. This waste minimization certification is to be included in the facility operating records until closure.

10. Annual Detection Monitoring Report

The permittee shall submit an Annual Detection Monitoring Report as required by Provision VI.G. by March 1st of each year.

11. Manifest Discrepancy Report

If a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy. If not resolved within fifteen days, the permittee must submit a report, describing the incident, to the Executive Director, as per the requirements of 30 TAC Section 335.12(c)(2). A copy of the manifest must be included in the report.

12. Unmanifested Waste Report

A report must be submitted to the Executive Director within 15 days of receipt of unmanifested waste, as per the requirements of 30 TAC Section 335.15(3).

13. Monthly Summary

The permittee shall prepare a monthly report, of all manifests received during the month, summarizing the quantity, character, transporter identity, and the method of storage, processing and disposal of each hazardous waste or Class 1 waste shipment

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[II.B.13.cont]

received, itemized by manifest document number. This monthly summary report shall be submitted to the TCEQ Registration, Review, and Reporting Division on or before the 25th day of each month for waste received during the previous month. [30 TAC Section 335.15(2)]

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C. <u>Incorporated Regulatory Requirements</u>

1. State Regulations

The following TCEQ regulations are hereby made provisions and conditions of this permit:

- a. 30 TAC Chapter 37, Subchapter P, Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities;
- b. 30 TAC Chapter 305, Subchapter A: General Provisions;
- c. 30 TAC Chapter 305, Subchapter C: Application for Permit;
- d. 30 TAC Sections 305.61 305.69 (regarding amendments, renewals, transfers, corrections, revocation and suspension of permits);
- e. 30 TAC Sections 305.121 305.125 (regarding permit characteristics and conditions);
- f. 30 TAC Sections 305.127 305.129 (regarding permit conditions, signatories and variance procedures);
- g. 30 TAC Chapter 305, Subchapter G: Additional Conditions for Hazardous and Industrial Solid Waste Storage, Processing and Disposal Permits;
- h. 30 TAC Chapter 335, Subchapter A, Industrial Solid Waste and Municipal Hazardous Waste In General;
- 30 TAC Chapter 335, Subchapter B, Hazardous Waste Management General Provisions;
- j. 30 TAC Section 335.152, Standards;
- k. 30 TAC Sections 335.153 335.155 (regarding reporting of emergency situations and additional reports required);

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[II.C.1 cont]

 30 TAC Sections 335.156 - 335.167 (regarding applicability of groundwater monitoring programs and corrective action requirements);

- m. 30 TAC Sections 335.173 335.174 (regarding the design and operating requirements and closure and post-closure care of landfills);
- n. 30 TAC Sections 335.175 335.176 (regarding special requirements for containers and bulk and containerized waste);
- o. 30 TAC Sections 335.177 335.179 (regarding general performance standard, cost estimate for closure, and financial assurance);
- p. 30 TAC Chapter 335, Subchapter Q, Pollution Prevention: Source Reduction and Waste Minimization; and
- q. 30 TAC Chapter 350, Texas Risk Reduction Program.

Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable state statute and/or Commission Rule.

2. Federal Regulations

To the extent applicable to the activities authorized by this permit, the following provisions of 40 CFR Part 264, and Part 268, adopted by reference by 30 TAC Section 335.152, and 335 Subchapter O are hereby made provisions and conditions of this permit, to the extent consistent with the Texas Solid Waste Disposal Act, Texas Health and Safety Code Ann., Chapter 361 (Vernon), and the rules of the TCEQ:

- a. Subpart B -- General Facility Standards;
- b. Subpart C -- Preparedness and Prevention;
- c. Subpart D -- Contingency Plan and Emergency Procedures;
- d. Subpart E -- Manifest System, Recordkeeping, and Reporting;
- e. Subpart G -- Closure and Post-closure;

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[II.C.2. cont]

- f. Subpart H -- Financial Requirements;
- g. Subpart I -- Use and Management of Containers;
- h. Subpart J -- Tank Systems;
- i. Subpart N -- Landfills;
- j. Subpart AA -- Air Emission Standards for Process Vents;
- k. Subpart BB -- Air Emission Standards for Equipment Leaks;
- 1. Subpart CC --Air Emission Standards for Tanks, Surface Impoundments, and Containers (as applicable);
- m. 40 CFR Part 268 Land Disposal Restrictions.

III. FACILITY MANAGEMENT

A. Operation of Facility

The permittee shall construct, maintain, and operate the facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment, as required by 40 CFR 264.31. All equipment and structures used to manage hazardous waste at the facility shall be maintained in proper operating condition.

B. Personnel Training

The permittee shall ensure that all facility personnel involved with hazardous waste management successfully complete a training program as required by 40 CFR 264.16. The permittee shall maintain training documents and records, as required by 40 CFR 264.16(d) and (e).

C. Security

- 1. The permittee shall provide and maintain an artificial or natural barrier which completely surrounds the active waste management portion(s) of the facility and shall have a means to control entry, at all times, through gates or other entrances to these same facility areas.
- 2. The permittee shall post warning signs at all points of access to the active waste management portion(s) of the facility and along the natural and/or artificial barriers in

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[III.C. cont]

sufficient numbers to be seen from any approach to that (those) portion(s) of the facility. The signs shall be printed so that they may be clearly read from a distance of at least 25 feet, and shall state "Danger - Unauthorized Personnel Keep Out" in English and in Spanish.

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D. General Inspection Requirements

The permittee shall follow the inspection schedule contained in the permit application submittals identified in Provision I.B. and as set out in Table III.D.-Inspection Schedule. The permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by 40 CFR 264.15(c). Records of inspection shall be kept, as required by 40 CFR 264.15(d). Any remedial actions taken in response to facility inspections and the date of the remediation shall be included in the inspection records.

E. Contingency Plan

- 1. The permittee shall follow the Contingency Plan, developed in accordance with 40 CFR Part 264 Subpart D, and contained in the permit application submittals identified in Provision I.B. Copies of this plan shall be available to all employees involved in waste management at the facility.
- 2. The permittee shall immediately initiate clean-up procedures for removal of any spilled hazardous or industrial nonhazardous wastes and waste residues and shall take all steps necessary to prevent surface-water or groundwater contamination as a result of any spills.
- 3. Collected hazardous or industrial nonhazardous wastes, spills, leaks, clean-up residues, and contaminated rainfall runoff, including contaminated stormwater from the drainage control system(s) associated with the permitted units, shall be removed promptly after the spillage and or rainfall event in as timely a manner as is necessary to prevent overflow of the system by the following method(s):
 - a. Removal to an on-site authorized facility unit;
 - b. Removal to an authorized industrial solid waste management facility or authorized off-site facility; or
 - Discharge in accordance with a wastewater discharge permit. C.
- 4. The permittee shall ensure that any equipment or vehicles which have come in contact with waste in the loading/unloading, storage, processing, and/or disposal areas have been decontaminated prior to their movement into designated uncontaminated areas of the site property. At a minimum, all contaminated equipment shall be externally

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[III.E.4. cont]

decontaminated and contaminated vehicles shall have their undercarriages and tires or tracks decontaminated to remove all waste residues and to prevent contamination of uncontaminated areas. All wash water generated shall be collected and disposed of in accordance with Provision III.E.3.

5. Preparedness and Prevention

- a. At a minimum, the permittee shall equip the facility as set forth in <u>Table III.E.3.- Emergency Equipment</u>, as required by 40 CFR 264.32.
- b. All sumps, pumps, fire- and spill-control equipment, decontamination equipment, and all other equipment and structures authorized or required through the Contingency Plan shall be tested and maintained, as necessary, to assure its proper operation in time of emergency, as required by 40 CFR 264.33.
- c. The permittee shall maintain access to the communications or alarm system, as required by 40 CFR 264.34.
- d. A trained emergency coordinator shall be available at all times in case of an emergency and will have the responsibility for coordinating all emergency response measures as required by 40 CFR 264.55 and 264.56. Emergency number(s) shall be posted in all waste management portions of the facility and all employees in those areas shall be trained in the location of those postings.

F. Special Permit Conditions

1. Use of Leachate as Dust Suppressant:

The permittee may collect leachate from active operating cells (receiving wastes for which interim and final cover has not been placed) and store leachate in storage units (such as containers, frac tanks, mobile tanks, etc.) within the operating cells of the landfill unit for application to the waste surface as a dust suppressant. The collected leachate shall not be stored or used as a dust suppressant outside the operating cells of the landfill unit within which the leachate was originally generated. Further, the permittee shall comply with the following requirements:

a. The permittee shall not apply leachate to the waste surface within a landfill unit in excess of the amount required for dust suppression. The use of

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[III.F.1.a cont]

leachate as dust suppressant shall be appropriate with the degree of dryness of the exposed landfill face at the time of application. The permittee is prohibited from

excessive and/or improper use of leachate as dust suppressant.

- b. The permittee shall store collected leachate to be used for dust suppression in containers/tanks within the landfill unit in which the leachate was generated for up to ninety (90) days in accordance with the procedures described in the application and 30 TAC 335.69.
- c. The permittee shall remove from the storage units and the leachate collection and leak detection system any excess leachate which will not be used for dust suppression in the operating cells of the landfill unit in which the leachate was generated and shall manage such leachate in accordance with the other provisions of this permit.
- d. The permittee shall use the concentrations of the chemical constituents listed in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1 (cut of concentrations for wastes classified as Class 2 wastes) as action levels for determining allowable chemical constituent concentrations in the leachate to be used as a dust suppressant. In order to ensure that these chemical constituent concentrations do not exceed the levels specified in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1, the permittee shall sample and analyze the leachate from the landfill at least on an annual basis. The permittee shall submit these sampling and analysis results to the TCEQ within sixty (60) days of sampling the leachate.
- e. If routine inspection of leachate samples indicate change in physical appearance (such as odor, color, etc.) or chemical analysis show significant increase in chemical constituent concentrations, then the permittee shall conduct additional analysis of leachate at least semiannually to document that the concentrations are below the action levels specified in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1. If results of the semi-annual analyses demonstrate that chemical constituent concentrations in the leachate remain below the levels specified in 30 TAC Chapter R, Appendix I, Table 1 for three consecutive semi-annual events, the permittee may resume a minimum annual frequency for leachate sampling and analyses.
- f. If analytical results collected in accordance with <u>Provisions III.F.1.d. or III.F.1.e.</u> indicate that any chemical constituent in the leachate used for dust suppression exceeds its respective concentrations specified in 30 TAC Chapter 335, Subchapter R, Appendix I, Table 1, or if the total

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[III. F.f cont.]

concentrations of all the chemical constituents listed in 30 TAC Chapter 335, Subchapter R, Appendix I, Table 1, exceed 1%, the leachate shall not be used for dust suppression and shall be removed and managed as appropriate with the other provisions of this permit.

2. Texas Department of State Health Services (TDSHS) License Requirements:

The permittee shall comply with all the applicable requirements of Texas Department of State Health Services (TDSHS) license(s) for managing mixed radioactive and hazardous wastes at the facility.

3. Within Six (6) months of issuance of the Class 3 permit modification, the permittee shall submit a permit modification/amendment application to address the changes from the reduction of the landfill surface area and capacity.

IV. WASTES AND WASTE ANALYSIS

A. Waste Analysis Plan

The permittee shall follow the Waste Analysis Plan, developed in accordance with 40 CFR 264.13 and the permit application identified in <u>Provision I.B.</u> and as modified by this permit.

B. Authorized Wastes

1. The permittee is authorized to manage hazardous, non-hazardous industrial, and non-hazardous non-industrial solid wastes listed in <u>Table IV.B. - Wastes Managed in Permitted Units</u>, subject to the limitations provided herein.

Wastes authorized for storage and processing and disposal include those generated from facility sources and from off-site sources.

2. Hazardous and Non-hazardous Waste Received From Off-Site Sources

When the permittee may receive hazardous or non-hazardous waste from an off-site source (except where the permittee is also the generator), the permittee shall inform the generator in writing that the permittee has the appropriate permits and will accept the waste the generator is shipping. The permittee shall keep a copy of this written notice as part of the operating record. [40 CFR 264.12(b)]

3. The wastes authorized in <u>Table IV.B.</u> shall not contain any of the following unless as specified below and in <u>Provision IV.B.4</u>:

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[IV.B.3.a. cont]

- a. Polychlorinated biphenyl (PCB) waste, as defined by the EPA in regulations issued pursuant to the Toxic Substances Control Act under Title 40 Code of Federal Regulations (CFR) Part 761, unless the permittee is compliant with the federal requirements for PCB storage as specified in 40 CFR Part 761;
- b. Radioactive materials/wastes unless the permittee is authorized to store and process these wastes in compliance with specific licensing and permitting requirements under Chapter 401 of the Texas Health and Safety Code. In accordance with 30 TAC 336.203, no person shall dispose of radioactive material unless that person has a license or an exemption from the Texas Commission on Environmental Quality (TCEQ) under Texas Health and Safety Code, §401.106(a).
- c. Explosive material, as defined by the Department of Transportation under 49 CFR Part 173;
- d. Dioxin-containing wastes for disposal, identified by EPA as F020, F021, F022, F023, F026, and F027 wastes in 40 CFR 261.31. The permittee is authorized to store a maximum of five (5) 55-gallon drums of dioxin listed wastes at the facility. Prior to accepting dioxin containing wastes after the date of this permit renewal, the permittee shall seek and obtain Executive Director's approval;
- e. Ignitable compressed gases except aerosol cans;
- f. Municipal garbage as defined in 30 TAC Section 330.2(49);
- g. Putrescible wastes as defined in 30 TAC Section 330.2(108); or
- h. Special Waste from Health-Care Related Facilities subject to 25 TAC Chapter 1 or 30 TAC Chapter 330.
- 4. The permittee may accept the following non-hazardous wastes generated from non industrial entities:
 - a. Asbestos containing materials in accordance with applicable regulations.
 - b. Off-specification or spent chemical products.

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[IV.B.4.d cont]

c. Remediation and demolition waste (e.g., chemically-impacted soil, personal protective equipment, and building materials.).

- d. PCB wastes if the permittee is complaint with the requirements for PCB storage as specified in 40 CFR Part 761.
- e. Prior to accepting wastes identified in <u>Provisions IV.B.4.a.through d.</u>, the permittee shall comply with the waste analysis requirements of the waste analysis plan incorporated by reference into this permit and comply with all other conditions of this permit.
- f. The permittee shall comply with the applicable requirements of 30 TAC Chapter 335, Subchapter J, and 30 TAC Chapter 330, Subchapter P, related to fees and reporting.
- 5. Prior to accepting any additional wastes not authorized in <u>Table IV.B</u> and this permit, the permittee shall follow the permit amendment or modification requirements listed in 30 TAC Section 305.62 and 305.69.
- 6. The permittee may store wastes restricted under 40 CFR Part 268 solely for the purpose of accumulating quantities necessary to facilitate proper recovery, treatment, or disposal provided that it meets the requirements of 40 CFR 268.50(a)(2) including, but not limited to the following:
 - a. Clearly marking each container to identify its contents and the date each period of accumulation begins;
 - b. Clearly marking each tank with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility.
- 7. Fourteen days prior to acceptance of waste streams containing radioactive material subject to an exemption of the Texas Commission on Environmental Quality (TCEQ), the permittee shall provide notice in writing to the TCEQ that provides information on the waste and states that the radioactive material is subject to an exemption of the TCEQ. Such notification shall include waste volume, generator identification, physical form, characterization information, and sampling data. In lieu of characterization and sampling data the permittee may provide exemption verification from the U. S. Nuclear Regulatory Commission which is based in TCEQ rule. The permittee shall maintain notification documentation at the facility and the

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[IV. cont]

documentation must be made available for review by the staff of the TCEQ upon request.

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C. Sampling and Analytical Methods

- 1. Table IV.C. - Sampling and Analytical Methods, shall be used in conjunction with the Waste Analysis Plan referenced in Provision IV.A., in performing all waste analyses.
- 2. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of EPA SW-846, ASTM or other methods accepted by the TCEQ. The permittee shall have a QA/QC program that is consistent with EPA SW-846 and the TCEQ QAPP.
- 3. The permittee shall test a sufficient number of representative waste samples to assure that free liquids are not placed in the landfill. All testing for free liquids shall be according to Test Method 9095 (Paint Filter Liquids Test - or the most current version) as described in EPA SW-846. The permittee shall comply with Provision V.G.4.n. for management of Land Disposal Restricted (LDR) wastes and wastes containing free liquids...

V. AUTHORIZED UNITS AND OPERATIONS

A. Authorized Units

- 1. The permittee is authorized to operate the facility units listed in "Attachment D" for storage and processing and disposal subject to the limitations herein. All waste management activities not otherwise exempted from permitting under 30 TAC 335.2 shall be confined to the authorized facility units listed in "Attachment D". References hereinafter in this permit to "TCEQ Permit Unit No." shall be to the facility units listed in "Attachment D". All authorized units must be clearly identified as numbered in "Attachment D". These units must have signs indicating "TCEQ PERMIT UNIT NO. ____".
- 2. The permittee shall comply with 40 CFR 264.17, relating to general requirements for ignitable, reactive, or incompatible wastes.
- 3. The permittee shall prevent inundation of any permitted units and prevent any discharges of any waste or runoff of waste contaminated stormwater from permitted units. Additionally, each loading or unloading area, associated with a permitted hazardous or nonhazardous waste management unit, shall be provided with a drainage

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[V.A.3 cont]

control system which will collect spills and precipitation in such a manner as to satisfy the following:

- Preclude the release from the system of any collected spills, leaks or precipitation;
- b. Minimize the amount of rainfall that is collected by the system; and
- c. Prevent run-on into the system from other portions of the facility.
- 4. The permittee shall construct, operate, and maintain the facility to prevent washout of any hazardous waste by a 100-year flood, as required in 40 CFR 264.18(b)(1).

B. <u>Container Storage Areas</u>

- 1. Container storage areas are shown in <u>Table V.B. Container Storage Areas</u>. The permittee is authorized to operate the facility container storage areas for storage and processing subject to the limitations contained herein.
- Containers holding hazardous waste shall be managed in accordance with 40 CFR 264.171, Condition of containers; 40 CFR 264.172, Compatibility of waste with containers; and 40 CFR 264.173, Management of containers.
- 3. The permittee shall construct and maintain the containment systems for the container storage areas in accordance with the drawings and details included in the Part B Application identified in <u>Provision I.B.</u> At a minimum, the containment system must meet the requirements of 40 CFR 264.175.

C. <u>Tanks and Tank Systems</u>

- 1. The permitted tank units and their approved waste types are shown in <u>Table V.C.-Tanks and Tank Systems</u>. The permittee is authorized to operate the permitted tank units for storage and processing subject to the limitations contained herein.
- 2. The permittee shall not place hazardous waste or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a)]
- 3. The permittee shall prevent spills and overflows from the tank or containment system as per the requirements of 40 CFR 264.194(b).
- 4. Secondary containment systems must be provided with a leak-detection system that is operated so that it will detect the failure of either the primary or secondary

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[V.C.4 cont]

containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within 24 hours.

- 5. The permittee shall report to the Executive Director within 24 hours of detection when a leak or spill occurs from the tank system or secondary containment system to the environment. [40 CFR 264.196(d)(1)] (A leak or spill of one pound or less of hazardous waste that is immediately contained and cleaned-up need not be reported.) [40 CFR 264.196(d)(2)] (Releases that are contained within a secondary containment system need not be reported.)
- 6. Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the permittee shall report the following information to the Executive Director: [40 CFR 264.196(d)(3)]
 - a. Likely route of migration of the release;
 - b. Characteristics of the surrounding soil (including soil composition, geology, hydrology, and climate);
 - c. Results of any monitoring or sampling conducted in connection with the release. If the permittee finds it will be impossible to meet this time period, the permittee shall provide the Executive Director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;
 - Proximity of downgradient drinking water, surface water, and populated areas; and
 - e. Description of response actions taken or planned.
- 7. The permittee shall submit to the Executive Director all certifications of major repairs to correct leaks within seven days of returning the tank system to use. [40 CFR 264.196(f)]

D. Surface Impoundments

- The Surface impoundment and its approved waste types are shown in Table V.D.1.Surface Impoundments. The permittee is authorized to operate the surface
 impoundment for storage and processing of wastes subject to the limitations contained
 herein and the Part B application. The surface impoundment shall include liner
 systems as shown in Table V.D.6 Surface Impoundment Liner System, and
 Attachment B.
 - a. Wastes authorized in Table IV.B (Wastes Authorized) for the surface

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[V.D.1.a cont]

impoundment shall meet all the applicable land disposal restrictions under 40 CFR Part 268, prior to placement in the surface impoundment.

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- The permittee shall comply with the applicable requirements of 40 CFR 264
 Subpart K Surface Impoundment and the Part B application for construction, installation, and operation of the surface impoundment.
- c. The permittee shall inspect the surface impoundment in accordance with the frequency listed in Table III.D. Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR Part 264 Subpart K.
- d. The permittee shall comply with the applicable requirements specified in the Wastewater Permit WQ0004948000 and Radioactive Material License R04100 for construction, installation, and operation of the surface impoundment.
- 2. Action Leakage Rate and Response Action Plan [40 CFR 264.222 and 264.223]
 - a. The permittee shall establish an Action Leakage Rate (ALR) pursuant to 40 CFR 264.222. The permittee shall determine if the ALR, given in gallons per acre per day, for each sump has been exceeded by converting the weekly or monthly flow rate from the monitoring data obtained to an average daily flow rate (gallons per acre per day) for each sump. The permittee shall calculate the average daily flow rate for each surface impoundment sump on a weekly basis during the active life and closure period. The ALR for the sumps in each landfill cell is given on Table V.D. Surface Impoundments.
 - b. Prior to receipt of waste, the permittee shall have in place an approved Response Action Plan (RAP) which meets the requirements of 40 CFR 264.223. The RAP shall set forth the actions to be taken if the ALR is exceeded.

E. Waste Piles

Reserved

F. Land Treatment Units

Reserved

G. Landfills

1. The permittee may dispose of a total volume of 2.31 million cubic yards of hazardous

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[V.G.1. cont]

waste in 11 cells (A through K) which are collectively known as East+West Landfill. The landfill cell(s) shall meet the specifications listed in Table V.G.1. - Landfills, Table V.G.6.- Landfill Liner System, Table V.G.7.- Landfill Leachate Collection System. The permittee is authorized to operate the permitted landfill for waste disposal subject to the limitations contained herein.

2. Test Fill

Prior to construction of any new landfill or a landfill cell with changes in the a. design, specifications, materials, and/or construction specifications for the liner system, the permittee shall construct and evaluate a test fill(s) to verify that material specifications, and construction specifications, methodology and equipment proposed to construct a full-scale compacted clay liner achieve a field hydraulic conductivity of 1 x 10⁻⁷ cm/sec or less in the The test fill construction plans, specifications and documentation procedures shall conform with the guidance described in Section 2.3.4.1.2. (Test Fill Construction) of "Construction Quality Assurance For Hazardous Waste Land Disposal Facilities" (EPA Publication No. 530-SW-021, dated October, 1985) and "Quality Assurance and Quality for Waste Containment Facilities" (EPA/600/R-93/182). Hydraulic conductivity of the test fill pad shall be determined using the sealed double-ring infiltrometer (ASTM D 5093), or an equivalent method approved by the Executive Director.

The permittee shall complete construction and evaluation of the test fill in accordance with the terms of this permit and shall submit certification of proper construction and evaluation in accordance with <u>Provision II.A.6.</u> This certification shall be signed by both the permittee and a qualified, licensed Professional Engineer competent in geotechnical engineering with experience in construction of compacted clay liners and evaluation of field permeabilities of compacted clay liners.

- b. The test fill certification report shall include the following information:
 - (1) Results of all preconstruction, construction, and postconstruction quality assurance inspections and testing performed;
 - (2) A summary of material specifications and construction specifications, methodology and equipment necessary to construct a full-scale compacted clay liner or cover achieving a field hydraulic conductivity of 1 x 10⁻⁷ cm/sec or less;

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[V.G.2.b. cont]

(3) Complete documentation, including a summary of raw data, detailing how the field hydraulic conductivity of the compacted test fill clay liner was measured and calculated; and

(4) The qualifications of the engineer certifying proper test fillconstruction and testing.

3. General Landfill Design and Construction Requirements

a. The landfill liner system shall consist of at least two liners which meet the requirements of 40 CFR 264.301(c)(1)(i)(A) and (B). In addition, a leachate collection/leak detection system which meets the requirements of 40 CFR 264.301(c)(2) and (3) shall be installed above and between the liners. The landfill liner system and leachate collection/leak detection system shall meet the specifications listed in <u>Table V.G.6. - Landfill Liner</u> System and Table V.G.7. - Landfill Leachate Collection System.

b. Soil Liner

All constructed clay-rich soil structures (liners, dikes, and cover) shall be constructed according to the specifications and methodologies established for the soil liner test fill and shall meet or exceed the following minimum specifications:

- (1) Materials for all constructed clay-rich structures shall be excavated, broken down, hydrated to the proper moisture content (if necessary) and then recompacted in loose lifts not less than 6.0 inches nor greater than 9.0 inches in thickness. If the soils are significantly below optimum moisture content (>3% below optimum) the maximum clod size of the soils will be reduced to less than 2 inches so that hydration can occur uniformly. Each lift shall be scarified to a depth no greater than 2.0 inches nor less than 0.5 inches prior to placement of the following lift;
- (2) Compaction shall be to at least 95% Standard Proctor Density at or slightly above optimum moisture content. The permittee shall compact each clay-rich structure with a sheepsfoot-type roller of the same drum diameter and length, empty and/or ballasted weight, length and face area of the feet, and yoking arrangement as used to construct the test fill required in this section. The permittee with the prior approval of the Executive Director may use a different roller of similar size and type that provides equivalent or greater compactive effort as the sheepsfoot-type roller. For areas

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[V.G.3.b cont]

inaccessible to a sheepsfoot roller, a tamping foot-type compactor, smooth-drum roller or vibrating-plate compactor having foot pressures of at least 250 pounds per square inch (psi) shall be substituted;

- (3) The term "clay-rich soil", as described in this permit, shall be defined as soil exhibiting the following minimum characteristics:
 - (a) Plasticity index greater than or equal to 15,
 - (b) Liquid limit greater than or equal to 30, and
 - (c) Percent passing No. 200 sieve greater than or equal to 30.
- (4) Laboratory Standard Proctor Density and optimum moisture content tests performed in accordance with ASTM D-698 for a minimum of one (1) representative sample from each 5,000 cubic yards of soil;
- (5) Field density and moisture control tests on constructed soil liners performed in accordance with ASTM D-1556, ASTM D-2167, ASTM D-2922, or an equivalent method at a frequency of at least one per every 10,000 square feet of each lift placed;
- (6) Atterberg Limits performed in accordance with ASTM D-4318 at a frequency of at least one per every 1,000 cubic yards of soil and for a minimum of two (2) tests per layer per cell;
- (7) Percent passing No. 200 sieve performed in accordance with ASTM D-1140 at a frequency of at least one per every 1,000 cubic yards of soil and for a minimum of two (2) tests per layer per cell;
- (8) Soil liner thickness and slope determinations at a rate of at least one (1) determination by appropriate surveying techniques per every 2,500 square feet of soil liner installed; and
- (9) Hydraulic conductivity measurements expressed in terms of cm/sec for representative undisturbed core samples of the constructed soil liner system components at a frequency of one per acre per lift.

c. Geomembrane Liner

(1) The following conditions shall be satisfied prior to the installation of

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[V.G.3.c.(1) cont.]

any geomembrane liner:

The upper four (4) inches of the supporting soil for the liner (a) shall not contain any stones, roots, or foreign objects having a dimension greater than one (1) inch;

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- (b) The surface to be lined shall be prepared so as to provide a surface that is free of irregularities, loose earth, desiccation cracks, and abrupt changes in grade; and
- (c) The compacted clay liner shall be maintained at or slightly above optimum moisture content and free of desiccation cracks prior to placement of any overlying geomembrane liner. Verification testing and modifications to moisture content shall be performed for the compacted clay liner during soil compaction activities and hence at least every seven (7) days until placement of the overlying component of the liner system. Final soil moisture content determinations must be performed for the clay liner within twenty-four (24) hours of placement of the overlying component of the liner system. At a minimum, soil moisture content shall be measured at six (6) inch depths at a minimum rate of one (1) test per 10,000 square feet of soil liner. The date, location, and results of all soil moisture measurements and the date and location of the synthetic liner placement shall be included in the required certification report. The results of a visual inspection made by the certifying engineer, noting the presence or absence of desiccation cracks and any remedial measures taken to remove these features, must also be included in the certification report for the landfill (cell).
- (2)During installation, all persons walking on the liner shall wear shoes which will not damage the liner.
- (3)The geomembrane shall not be installed during rainfall or in an area of pooled water.
- (4)The geomembrane shall be installed so that there will not be tension or wrinkles at the anticipated average temperature for its final use.
- (5)All personnel seaming the geomembrane shall have previous project

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[V.G.3.c. cont]

experience in field seaming geomembrane liner using similar seaming methods.

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- (6) An anchor trench having minimum dimensions of two (2) feet in width and two (2) feet in depth shall be constructed along the perimeter of the landfill trench.
- (7) The geomembrane panel shall be secured at the ground surface in the anchor trench specified in <u>Provision V.C.3.c.(6)</u> and shall be installed such that field seams, to the extent possible, are aligned parallel to the landfill sidewall slope.
- (8) Adjacent panels of the geomembrane shall be overlapped at least three (3) inches.
- (9) All seam areas of the geomembrane shall be clean and free of moisture, dust, dirt, and any other foreign material of any kind.
- (10) Each seaming unit for extrusion welding shall have temperature gauges that indicate the temperature of the extrudate in the machine and at the nozzle.
- (11) Field seaming shall not be done if the ambient temperature is below 34°F.
- (12) Field seaming shall not be done if the ambient temperature is below 50°F, but greater than 34°F, unless the geomembrane is preheated above that temperature by either the sun or a hot air device.
- (13) Prior to field seaming the geomembrane each day, all personnel responsible for seaming shall prepare a test seam of at least two (2) feet in length. These test seams shall be tested for adequate strength (seam peel stress equal to 100 percent of the tensile strength of the geomembrane used) prior to field seaming the geomembrane. All test seaming shall be performed under the same conditions as production seaming. Any problems with equipment or test seam strength shall be corrected prior to field seaming the geomembrane.
- (14) All seam and nonseam areas of the geomembrane shall be visually inspected for signs of defective seams, blisters, punctures, undispersed raw materials, and any sign of contamination by foreign matter. Any problems discovered shall be marked, repaired, and retested or re-evaluated. The geomembrane surface shall be clean

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[V.G.3.c. cont]

at the time of these inspections.

- (15) All field seams shall be nondestructively tested over their entire length. Seam testing shall be performed as field seaming progresses. Any defects shall be marked, repaired, and retested.
- (16) Field seams shall be tested using, at a minimum, an ultrasonic tester, a pressure tester, or a vacuum tester suited for this purpose. All testing equipment shall be calibrated or properly adjusted prior to use each day.
- (17) All field seams shall be destructively tested at a minimum frequency of one sample for every 500 feet of weld for adequate strength as defined above. Areas of removed samples shall be patched and the patched seams nondestructively tested in accordance with Provision V.G.3.c.(15) above.
- (18) If any seam tested in accordance with <u>Provisions V.G.3.c.(15),(16),</u> and (17) is shown to be defective, the permittee shall evaluate the entire length of seam represented by the defective test results to determine the extent of the defect(s). The permittee shall replace or repair defective seams prior to progressing with field seaming operations.
- (19) Prior to installing the 60 mil and 80 mil thickness geomembrane at the transition of landfill cells G and H, the permittee shall perform sufficient number of tests to evaluate the tensile strength and other properties of the geomembranes at the transition point. Samples of the geomembranes shall be destructively tested prior to installation. The laboratory and/or field testing of the tie-in samples of geomembrane of different thicknesses shall be evaluated to demonstrate that the integrity of the liner system at the transition point will not be compromised. This information will be submitted as part of the Construction Certification Report as required in Provision V.G.3.f. This is in addition to any other requirements, specified in the application, incorporated into this permit by reference.
- d. Leachate Collection/Leak Detection System (If Applicable)
 - (1) Sieve analysis tests on nonsynthetic material at a minimum rate of one (1) test per 400 cubic yards.

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[V.G.3.d. cont]

(2) Hydraulic conductivity measurements expressed in units of cm/sec at a frequency of at least 4 representative samples collected from each compacted drainage layer.

- (3) Drainage layer thickness determinations at a rate of at least three (3) determination by appropriate surveying techniques per every cell or 2,500 square feet of drainage layer installed.
- (4) Drainage pipe slope determinations at a rate of at least one determination by appropriate surveying techniques per every 20 feet of drainage pipe and an overall visual inspection of all pipes for sagging and improper bedding.

e. Run-On and Run-Off Control Systems

The permittee shall design and construct a run-on control system and a run-off management system as specified in the approved Part B Permit Application Attachment V.G., which is incorporated into this permit through Permit Provision I.B. [30 TAC Sections 335.173(g) and (h)]

- f. The permittee shall submit certification of proper landfill construction prior to the placement of waste in a landfill or landfill cell. The certification shall be submitted in accordance with Provision II.A.6. Within thirty (30) days of submittal of such certification, the permittee shall submit a certification report which contains the results of all tests conducted. The permittee shall conduct any tests, inspections, or measurements that are deemed necessary in the judgement of the registered professional engineer supervising the cell construction, for the engineer to certify that the landfill cell has been constructed in conformance with the design and construction specifications of this permit. The certification report shall, at a minimum, contain the following drawings and test results:
 - (1) Scaled plan-view and cross-sectional drawings that accurately depict the areal boundaries and dimensions of the cell; separation distance(s) of the cell from the property boundary; minimum, maximum, and representative elevations of the excavation of the cell; minimum, maximum, and representative elevations of the cell as component parts of the liner system; location, site, volume, materials of construction, and slope, as applicable, of all soil and synthetic liners and leachate collection and leak detection system components; and
 - (2) For the soil liner, geomembrane liner, and leachate collection/leak detection system; all observations, tests, and analyses required to

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[V.G.3.f.2 cont.]

ensure that installation has been completed in accordance with the terms of this permit and the incorporated design plans.

4. General Landfilling Operations

The permittee shall conduct landfilling operations according to the following requirements:

- a. The initial two (2) feet of waste or soil placed in a landfill cell shall be placed with a tracked vehicle (D-6 Caterpillar size or smaller) and shall be composed of bulk or processed non-containerized waste. Rubber-tired vehicles and roller-type compaction equipment shall not drive on any portion of the leachate collection system in a landfill cell until the initial two (2) foot layer of waste or soil has been placed;
- Upon compliance with <u>Provision V.G.4.a.</u>, all subsequent waste, except containerized waste, shall be applied in lifts not greater than twenty four (24) inches and compacted sufficiently to minimize settlement of landfilled waste;
- c. In areas of the landfill where placement of final cover will not occur when the wastes reach final grade elevation, the permitee shall install an interim cover of at least one foot of caliche and/or red bed clay soil when the wastes reach final grade elevation.[V.G.4.]
- d. All collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems shall be maintained and must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system. [30 TAC Section 335.173(i)];
- e. All precipitation that collects in an active landfill cell shall be managed as contaminated water and disposed of accordingly at an authorized on-site waste management unit or at an authorized off-site facility;
- f. While a landfill cell is in operation, it must be inspected at least weekly and after storm events in accordance with 40 CFR 264.303(b);
- g. The permittee shall remove leachate from collection sumps as often as necessary to ensure that the leachate depth in the leachate collection/leak detection system is always less than the thickness of the drainage material and never exceeds 12 inches;
- h. The permittee shall inspect each leak detection system and record the amount of liquids removed from each leak detection system sump at least

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[V.G.4.h. cont]

once each week during the active life and closure period of the landfill;

i. Unless liquids removed from leachate collection/leak detection systems are used as dust suppressant within the operating landfill cells in accordance with permit Provision III.F.1., the liquids removed shall be classified in accordance with 30 TAC Chapter 335, Subchapter R (Waste Classification) and shall be managed accordingly at an authorized on-site waste management unit or at an authorized off-site facility;

j. Control of Wind Dispersal of Particulate Matter

The permittee shall cover or otherwise manage the landfill to control wind dispersal of particulate matter in accordance with the procedures described in the permittee's approved permit application [30 TAC Section 335.173(j)] and Provision III.F.1. as applicable;

- k. The permittee shall sequence the construction of an interim and/or final cover as the waste material reaches the final grade in accordance with the approved Part B Permit Application Attachment V.G., which is incorporated into this permit through permit Provision I.B.;
- 1. Requirements for Ignitable, Reactive or Incompatible Wastes

The permittee shall manage ignitable, reactive incompatible wastes in accordance with the following conditions:

- (1) Ignitable or reactive wastes shall not be placed in a landfill, unless the waste and landfill meet all applicable requirements of 40 CFR 268, and the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under 40 CFR 261.21 or 261.23 [40 CFR 264.312],
- (2) Ignitable wastes in containers may be disposed in the landfill cells in accordance with 40 CFR 264.312(b), and
- (3) Incompatible wastes, or incompatible wastes and materials must not be placed in the same landfill cell unless the permittee complies with 40 CFR 264.17(b).
- m. Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026, and F027

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[V.G.4.m cont]

The permittee shall not place hazardous wastes F020, F021, F022, F023, F026, and F027) in the landfill.

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- n. Stabilization of Liquid Wastes and LDR Wastes
 - (1) With the exception of leachate used for dust suppression as described in Provisions V.G.4.j and III.F.1., the permittee shall not

place hazardous waste liquids or hazardous waste containing free liquids, whether or not sorbents have been added (except for non hazardous wastes or certain containerized wastes as allowed under Provision V.G.4.p.) in landfill cells. _Free liquids_ are liquids which readily separate from the solid portion of a waste when the waste mixture is at a temperature above 32_F and ambient pressure. With the exception of liquids used for dust suppression in accordance with Provision V.G.4.j. and Provision III.F1., non-hazardous liquid wastes or non-hazardous wastes containing free liquids, shall be solidified using a non-biodegradable sorbent material or chemically stabilized using a stabilization treatment agent prior to landfill disposal.

- (2) All bulk and containerized loads shall be inspected for free liquids by conducting visual inspections to assure compliance with Provision V.G.4.n.(1). If visual inspection indicates the presence of free liquids in wastes that are to be landfilled in bulk or non-containerized form, the waste shipment shall not be placed in the landfill until no free liquids remain, as determined by the Paint Filter Liquids Test (Test Method 9095) as described in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA Publication No. SW-846).
- (3) If the inspection required in Provision V.G.4.n.(2), indicates that a bulk or non-containerized hazardous waste contains free liquids, the waste shall be treated prior to landfilling using a treatment technology that does not solely involve the use of a material that functions primarily as a sorbent. In order to verify that chemical stabilization has taken place, a representative sample of the each treated portion of the waste shall be collected from each batch of solidified and/or stabilized waste. Each sample shall be tested by procedure described appropriate as in applicable Provisions V.G.4.n.4. through V.G.4.n.(7) in order to verify that chemical stabilization has taken place.
- (4) For chemical stabilization processes based solely on a pozzolonic reaction between the aqueous portion of a waste and an appropriate

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[V.G.4.n.(4) cont]

admix ratio of calcium hydroxide (e.g. lime) and silicates (e.g. fly ash), an unconfined compressive strength test shall be used to verify successful stabilization. Each sample taken in accordance with <u>Provision V.G.4.n.(3)</u>. to be tested in accordance with this provision shall be prepared into a remolded specimen as described in Section

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4.3 of ASTM Test Method D-2166 (or most current revision). After curing for not more than 7 days, the unconfined compressive

strength of the specimen shall be determined using ASTM Test Method D-2166 (or most current revision).

- (5) If the liquid portion of a particular hazardous waste contains greater than 10 percent organic constituents, or if the stabilization process employed is not based solely on a pozzolanic reaction, then a strength verification test shall not be used to verify that sufficient chemical stabilization has occurred. Instead, the Toxicity Characteristic Leaching Procedure (TCLP) (40 CFR Part 261 Appendix II) and/or total constituent analyses as required under 40 CFR Part 268, as appropriate, shall be used to determine directly whether a sufficient fraction of the hazardous constituent has been made unavailable to the environment.
- (6) If hazardous waste has been stabilized in accordance with <u>Provision V.G.4.n.(5)</u>. then the waste shall not be landfilled unless TCLP and/or total constituent analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268. If a waste or a portion thereof has been stabilized in accordance with <u>Provision V.G.4.n.(4)</u>. then the waste shall not be landfilled unless it complies with one of the following provisions
 - (a) the sample collected pursuant to <u>Provision V.G.4.n.(3)</u>. [V.G.4.n.(6)(a)] shows an increase in compressive strength of at least 50 pounds per square inch (PSI) within 7 days of treating the waste, or
 - (b) additional sampling and analyses have been performed in accordance with <u>Provision V.G.4.n.(5)</u>. and the TCLP and/or total constituent analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268.

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[V.G.4.n cont]

Once it has been demonstrated in accordance with <u>Provision V.G.4.n.(6)</u>. that a particular stabilization process used on a representative sample of a particular untreated waste will result in a treated product that passes the unconfined compressive strength test or the criteria for TCLP/total constituent concentrations as required under 40 CFR Part 268 (as applicable), then samples of each batch are only required to pass the Paint Filter Liquids Test prior to placement in the landfill. If there are any changes in the treatment process (e.g., admix ratios and stabilization material composition) and/or composition of the waste to be treated, stabilization testing shall be repeated.

(8) Waste Streams Subject to LDR

For the waste streams to be landfilled on-site and subject to LDR, the permittee shall comply with the following applicable requirements:

> Prior to first receipt/disposal of LDR wastes treated a. off-site or wastes which do not require treatment on-site, the permittee shall perform corroborative sampling and analysis on those wastes for all applicable LDR constituents in accordance with 40 CFR Part 268. In lieu of corroborative sampling and analysis, the generator may provide a certification, including analytical results, to the permittee verifying the waste meets all applicable LDR standards. Such analysis by the permittee or certification by the generator shall be repeated at least annually. Additionally, a minimum of 10% of the waste streams received in a calendar year shall be randomly sampled and analyzed for LDR constituents applicable to that waste stream in accordance with 40 CFR Part 268. This random analysis shall be done in addition to any other waste analysis requirements of this permit. Records shall be maintained demonstrating compliance with the requirements and shall be kept on site and available for review by TCEQ representatives. Compliance with this provision does not in any manner, relieve

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[V.G.4.n. (8) (a) cont]

the permittee of the responsibility to ensure that all wastes subject to LDR's meet all LDR requirements prior to disposal.

- b. The permittee shall use appropriate treatment methods for waste streams requiring treatment to meet the 40 CFR Part 268 treatment standards. Successful treatment is said to be achieved if post-treatment analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268. The permittee shall then sample and analyze the treated waste at least once a year or when the generator notification indicates potential changes in the wastecharacteristics. frequency of testing shall be increased to one in every ten shipments for highly variable waste streams.
- (9) For liquids or waste containing free liquids subject to LDR's, the permittee shall comply with the applicable permit Provisions V.G.4.n.(2). through V.G.4.n.(8).
- o. Special Requirements for Containers

All containers, unless they are very small, such as an ampule, must be either at least 90 percent full when placed in the landfill, or crushed, shredded or similarly reduced in volume to the maximum practical extent before burial in the landfill [40 CFR 264.315]

p. Special Requirements for the Disposal of Lab Packs:

The permittee shall not place containers holding liquid waste, or waste containing free liquids in a landfill, unless the following conditions apply [30 TAC 335.175(e)]:

- (1) The container is very small, such as an ampule,
- (2) The container is designed to hold free liquids for use other than storage, such as a battery or capacitor, or

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[V.G.4.p cont]

(3) The container is a lab pack as defined and managed in accordance with 40 CFR 264.316;

q. Waste to Liner Compatibility

The permittee shall ensure that wastes to be landfilled will not impair the function of the synthetic liner. At a minimum, waste to liner compatibility testing shall be conducted for those wastes whose compatibility with the

selected membrane liner have not been conducted and the effects are unknown. For wastes and liners upon which tests have been conducted and the results and/or effects are known (manufacturer's literature, other experimental literature, etc.), additional testing is not required. The permittee shall maintain test results and/or documentation that confirms waste to liner compatibility at the facility; and

5. Action Leakage Rate and Response Action Plan [40 CFR 264.302 and 264.304]

- a. The permittee shall establish an Action Leakage Rate (ALR) pursuant to 40 CFR 264.302. The permittee shall determine if the ALR, given in gallons per acre per day, for each sump has been exceeded by converting the weekly or monthly flow rate from the monitoring data obtained to an average dailyflow rate (gallons per acre per day) for each sump. The permittee shall calculate the average daily flow rate for each landfill sump on a weekly basis during the active life and closure period. The ALR for the sumps in each landfill cell is given on Table V.G.1 Landfills.
- b. Prior to receipt of waste, the permittee shall have in place an approved Response Action Plan (RAP) which meets the requirements of 40 CFR 264.304. The RAP shall set forth the actions to be taken if the ALR is exceeded.

6. Cell Location Survey

The permittee shall maintain the following items in the operating record:

- a. A map with the exact location and dimensions (including depth) of each cell with respect to permanently surveyed benchmarks; and
- b. A record of the areal and vertical location of each waste placed into a landfill cell.

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[V. cont.]

H. Incinerators

Reserved

I. Boilers/Industrial Furnaces

Reserved

J. Drip Pads

Reserved

K. Miscellaneous Units

- The permittee shall construct and operate the Railcar Dumper Building identified in Table V.K. - Miscellaneous Units for unloading of hazardous and non hazardous waste from railcars directly into transport trucks. The wastes received through the Railcar Dumper Building shall be managed in accordance with the applicable provisions of this permit.
- 2. The permittee shall construct and operate Waste Compactor for processing wastes as identified in Table V.K. Miscellaneous Units subject limitations contained herein.
 - a. The permittee shall not process wastes in the Waste Compactor if they could cause the unit, its ancillary equipment, or a containment system rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a) as incorporated by reference in 40 CFR 264.601]
 - b. The permittee shall not place ignitable or reactive waste in the Waste Compactor or in the secondary containment system unless the procedures specified in 40 CFR 264.17 and 40 CFR 264.198(a) are followed.
 - c. The permittee shall not place incompatible wastes and materials in the same unit or the same secondary containment system unless the procedures specified in 40 CFR 264.17 and 40 CFR 264.199 are met.
 - d. The permittee shall inspect the Waste Compactor in accordance with thefrequency listed in Table III.D. - Inspection Schedule, to ensure that the unit is maintained in good functional condition as required by 40 CFR 264.602.

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[V. cont.]

e. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart X - Miscellaneous Units for construction, installation, and operation of Waste Compactor.

f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License R04971 for construction, installation, and operations of the Waste Compactor. Where in conflict, the conditions listed in the Radioactive Materials License R04971 take precedence over the conditions listed in this permit for construction, installation, and operation of the Waste Compactor.

L. Containment Buildings

Reserved

VI. GROUNDWATER DETECTION MONITORING

A. Groundwater Monitoring Program

The permittee shall design, construct and maintain a ground-water monitoring program to monitor area ground water throughout the active life of the facility and any post-closure care period. Groundwater monitoring at the facility shall at a minimum consist of a Detection Monitoring System for the locally named "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. In addition, supplemental wells for the landfill (permit Unit No. 2) will monitor the locally named "125-foot zone" of the Dockum Group and supplemental wells for the surface impoundment (Permit Unit No. 12) will monitor the undifferentiated shallow Ogallala Antler Gatuna (OAG) unit. The Detection Monitoring System shall yield groundwater samples from the uppermost aquifer that represents the quality of background water and the quality of ground water at the point of compliance.

Identification of Detection Monitoring Program Units

The Detection Monitoring Program is specific to the RCRA-regulated units listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System and as authorized by Provisions V.D. (Surface Impoundments) and V.G. (Landfills) for which groundwater monitoring requirements apply pursuant to 30 TAC Section 335.164.

2. Capabilities of Detection Monitoring Systems

The Detection Monitoring System shall yield groundwater samples from the uppermost

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[VI.A.2.cont]

aquifer/water-bearing zones that represent the quality of background water that has not been affected by operation of the regulated unit and that represent the quality of ground water passing the point of compliance. This system shall be capable of detecting a release from the regulated unit to the ground water.

3. Point of Compliance

The point of compliance for the Detection Monitoring System is defined by a vertical surface, located at the hydraulically downgradient limit of the waste management area that extends down into the uppermost aquifer/water bearing zone underlying the regulated unit. The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of the regulated unit.

4. Detection Monitoring Program

The permittee is required to install and operate a Detection Monitoring System subject to the limitations contained herein. The Detection Monitoring System wells for each unit are listed in <u>Table VI.B.3.b</u> - <u>Unit Groundwater Detection Monitoring System</u>. Wells identified as proposed in <u>Table VI.B.3.b</u> - <u>Unit Groundwater Detection Monitoring System</u> shall be installed in accordance with the compliance scheduling requirements of permit <u>Provision VI.I.</u>

- a. A Detection Monitoring System shall, at a minimum, consist of three categories of wells, Background, Point of Compliance and Supplemental Wells, which will be used to establish groundwater quality for each RCRA-regulated unit.
 - (1) Background Wells are those wells that are unaffected by the operations of the unit. The Background Wells are depicted in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (MW-1BR through MW-4A & B).
 - (2) Point of Compliance (POC) Wells are used to demonstrate compliance with the Detection Monitoring Parameters which are listed on <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u>. POC Wells are designated in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in <u>Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (DW-32A&B through DW-42 A&B and DW-60 through DW 65)</u>.
 - (3) The Detection Monitoring System shall also include Supplemental Wells, to establish groundwater quality and hydrogeologic conditions of the "125-foot zone" for the landfill (Permit Unit No. 2) and OAG Unit for the Surface

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[VI.A.4.a.(3) cont]

Impoundment (Permit Unit 12). Supplemental monitoring wells listed on Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (SW-32 through SW-42 and SW-60 through 65) shall be inspected for the presence of liquids each time the detection monitoring system is sampled. Should any supplemental monitoring well contain liquids in an amount which may be practicably sampled, the supplemental monitoring well(s) shall be monitored in accordance with all of the requirements of Section VI. of this permit applicable to Point of Compliance (POC) wells.

- b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care period in accordance with the parameter list and sampling schedule specified in Provisions VI.C.2, and VI.D.2, respectively.
- c. The design, construction, maintenance and operation of the authorized components of the Detection Monitoring Program must be in accordance with this permit and approved Part B Permit Application Attachment VI., which is incorporated into this permit through <u>Permit Provision I.B.</u>

B. Construction, Certification, and Plugging

Wells shall be constructed and maintained so groundwater samples are representative of the aquifer's water quality. A record of drilling and construction details demonstrating compliance with the terms of this permit section shall be prepared in accordance with Attachment F (Well Design and Construction Specifications). Wells constructed prior to issuance of this permit may be utilized as groundwater monitoring wells if they meet the standards of Attachment F (Well Design and Construction Specifications).

1. Well Construction

- a. For all groundwater monitor wells to be constructed in accordance with this permit, the permittee shall notify the Executive Director to report the proposed monitor well location and screened interval at least thirty (30) days in advance of the anticipated date of installation or in accordance with an approved schedule for installation. Alternatively, a schedule for installation issued as part of an approved work plan shall constitute such notification. New well construction shall commence upon written approval of the Executive Director within the timeframes specified in this permit.
 - c. The permittee shall install the wells of the Detection and Supplemental Monitoring System and submit certification of this installation within sixty (60) days of installation, as described in Attachment F (Well Design and Construction Specifications). The Detection and Supplemental Monitoring Wells shall be

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[VI.B.1 cont]

installed in accordance with the specifications outlined in Attachment F (Well Design and Construction Specifications).

2. Replacement Wells

Prior to installation of a replacement well, the permittee shall submit to the Executive Director for approval, the replacement well specifications and an explanation of why the well is being replaced. For any Detection Monitoring System well to be considered a replacement well and not a new well, the well shall have no design changes from the well being replaced; shall be drilled within fifteen (15) feet of the well being replaced; and shall be installed in accordance with this Provision and Attachment F (Well Design and Construction Specifications).

3. Well Management Activities Requiring Permit Modification

- a. If the permittee or the Executive Director determines that the well integrity, materials of construction, or well placement no longer enable a well to yield samples representative of groundwater quality from the desired aquifer(s), then the permittee shall submit a permit modification or amendment request to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, describing actions the permittee will take to remedy the situation. The permittee shall also notify the Executive Director within fifteen (15) days of such determination regarding a well.
- b. The permittee shall submit a permit modification or amendment request to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, when new POC, or Background Wells are to be constructed after issuance of this permit (i.e., if the wells have not been included in the approved Part B Permit Application materials referenced in permit Provision I.B.).
- c. The permittee shall submit a permit modification or amendment request, for installation of a new well, to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, when any wells being replaced do not meet the requirements of Provision VI.B.2.

4. Plugging and Abandonment Procedures

a. If a Detection Monitoring Well listed in <u>Table VI.B.3.b.-Unit Groundwater Detection</u>

<u>Monitoring System</u> is plugged and abandoned and a replacement well is not installed in accordance with this permit, then a modification request shall be submitted in

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[VI.B.4.a cont]

accordance with 30 TAC Section 305.69 within 90 days of the plugging and abandonment procedure to update <u>Table VI.B.3.b.-Unit Groundwater Detection Monitoring System</u> of the permit.

b. For all wells to be plugged and abandoned after issuance of this permit, the permittee shall follow the procedures specified in Attachment F (Well Design and Construction Specifications).

C. Detection Monitoring System: Operation

1. Uppermost Aquifer/Water-Bearing Zone Monitored by the Detection Monitoring System. The Detection Monitoring System shall be designed to monitor the ground water in the uppermost aquifer/water-bearing zone. The "uppermost aquifer", as referenced in this permit, refers to the locally named "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. The "225 foot zone" of the Dockum Group ranges in elevation from approximately 3250 feet above Mean Sea Level (MSL) to 3215 above MSL. The top of the uppermost aquifer/water-bearing zone is approximately 225 feet below ground surface (BGS). Ground water is typically encountered 225 feet BGS. A siltstone zone that occurs at a depth of 125 feet below ground surface and is locally named the "125-foot zone" of the Dockum Group shall also be monitored at the landfill (Permit Unit No. 2) in accordance with provision VI.A.4.a.(3). An upper single hydogeoligic unit which consists of unconsolidated or semi consolidated sand and gravel and is referred to as the undifferentiated Ogallala, Antler, Gatuna (OAG) unit occurs directly above the Dockum Group locally and is located approximately 0 to 30 feet BGS shall also be monitored at the surface impoundment (Permit Unit No. 12) in accordance with provision VI.A.4.a.(3).

2. Groundwater Detection Monitoring Parameters and Compliance

- a. The permittee shall monitor well identified in <u>Provision VI.A.4.a.</u> and listed in <u>VI.B.3.b.-Unit Groundwater Detection Monitoring System.</u> The uppermost aquifer's groundwater quality will be evaluated based on the parameters listed in <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u>. Sampling and analysis for the Groundwater <u>Detection Monitoring Parameters</u> of <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> shall be conducted in accordance with <u>Provision II.B.1.b.</u> of this permit. [30 TAC Section 335.164(1)]
- b. Background groundwater quality for a monitoring parameter or constituent shall be based on a sequence of at least one sample. The permittee shall determine the concentrations of the detection monitoring parameters and water quality parameters listed in <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> for each sample collected.
- c. Compliance with the Groundwater Detection Monitoring Parameters listed in

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[VI.C.2.c cont.]

<u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> is defined by the results of the data evaluation of <u>Provision VI.D.4.</u> wherein the groundwater monitoring data for each well does not exhibit evidence of contamination over background values. If any POC Well is determined to be noncompliant with <u>Table VI.B.3.c.- Groundwater Detection Monitoring Parameters</u> at any time during the Detection Monitoring Program, the permittee shall respond and report according to Provision VI.E.1.

3. Post-Closure Care Period

The units listed in <u>Provision VI.A.1.</u> shall remain in the Detection Monitoring Program during the active life of each unit and during any applicable Post-Closure Care period. After closure activities are completed for a specified unit and certification of closure is received by the Executive Director, any applicable Post-Closure Care period shall begin. If the Post-Closure Care Period has expired and evidence of statistically significant increase (SSI) of the Groundwater Detection Monitoring Parameters of <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> has not been confirmed in the ground water, then the permittee shall notify the Executive Director in writing at least 30 days prior to discontinuing the Detection Monitoring Program for the specified unit. Within 90 days of the notification, the permittee shall submit a final report to the Commission for the specified unit. The final report shall include the information required by the annual report of <u>Provision VI.G.</u>

4. Waste Management of Recovered Groundwater

- a. Recovered ground water from a Detection Monitoring Well with no known contamination may be managed as uncontaminated prior to analysis. Following analysis, if the permittee determines that a <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameter</u> has an SSI over background value, the recovered groundwater shall be managed as contaminated water.
 - b. Recovered ground water with known contamination which exceeds the <u>Table VI.B.3.c.- Groundwater Detection Monitoring Parameters</u> shall be managed as contaminated water.

D. Sampling and Analysis

1. Sampling and Analysis

The permittee shall follow the methods set out in EPA's <u>RCRA Groundwater</u> <u>Monitoring Draft Technical Guidance Document</u> (November 1992) or an alternate method with prior written approval of the Executive Director to collect and preserve samples withdrawn from groundwater monitoring wells. The collected samples shall be managed (i.e., Chain of

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[VI.D.1. cont]

Custody and handling procedure), analyzed, and evaluated (i.e., Quality Assurance/Quality Control (QA/QC)) in accordance with the current edition of U.S. EPA Publication SW-846, Test Methods for Evaluating Solid Waste and American Society for Testing and Materials (ASTM) Standard Test Methods or other equivalent methods with prior written approval of the Executive Director.

- a. All groundwater analyses required by this permit shall be performed using a QA/QC program where all information, data, and resulting decisions are technically sound, statistically valid, and properly documented. All QA/QC program details shall be put in writing and assignments made to qualified personnel. At a minimum, the program shall conform to the QA/QC program details described in the current edition of U.S. EPA Publication SW-846, <u>Test Methods for Evaluating Solid Waste</u> and American Society for Testing and Materials (ASTM) Standard Test Methods or other equivalent methods accepted in writing by the Executive Director.
- Groundwater analyses required by this permit shall utilize laboratory methods which are capable of measuring concentrations equal to or less than established background values.
- c. Wells shall be sampled according to the Sampling and Analysis Plan presented in the approved Part B Permit Application Attachment VI, which is incorporated into this permit through Provision I.B. The permittee or the Executive Director shall propose modifications, as necessary, to the Sampling and Analysis Plan in order to achieve the Detection Monitoring Program objectives. Any and all revisions to the plan shall become conditions of this permit at the beginning of the next full quarter after approval by the Executive Director.

2. Sampling and Analysis Frequencies and Parameters

- a. Frequencies of sampling shall be monthly, quarterly, semiannually or yearly, depending on the sampling objective. These periods of time are defined below:
 - (1) "Month" shall be a calendar month;
 - (2) "Quarter" shall be based on divisions of the calendar year (i.e., January through March, April through June, July through September, October through December);
 - (3) "Semiannual" shall be based on divisions of the calendar year (i.e., January through June, July through December) and consist of two consecutive quarters;
 - (4) "Annual" or "Year" shall be four consecutive quarters, beginning with the first

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[VI.D.2.a.4 cont]

quarter. Years shall be designated consecutively, beginning with the "first year", "second year", etc.; and,

- (5) "Calendar year" shall be based on divisions of the calendar (i.e. January through December).
- b. Sampling of wells shall commence during the first complete quarter after initial issuance of this permit, or during the first quarter of operation if the permit is issued for a new unit. Samples shall be collected during the first thirty (30) days of the specified sampling frequency.
- c. In the first and subsequent years of the Detection Monitoring Program, the wells of <u>Table VI.B.3.b.-Unit Groundwater Detection Monitoring System</u> shall be sampled and analyzed according to Provision VI.D.2.d.
- d. The permittee shall, during April and October of each year, sample the detection monitoring system wells. A sample shall be obtained from each of the even numbered upgradient wells and downgradient wells during the October sampling event, and a sample shall be obtained from each of the odd numbered upgradient wells and downgradient wells during the April sampling event. The permittee shall analyze each sample to determine the concentration of each detection monitoring parameter listed in The designated upgradient groundwater monitoring listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System will only be analyzed for metal monitoring parameters listed in Table VI.B.3.c.- Groundwater Detection Monitoring Parameters.
- e. Field determination requirements for wells listed in <u>Table VI.B.3.b.-Unit Groundwater</u>

 <u>Detection Monitoring System</u> consist of the following measurements or observations for each well that will be sampled which shall be established during each sampling event:
 - (1) Water level measurements relative to Mean Sea Level measured to within 0.01 foot.
 - (2) Determination of pH, temperature, Specific Conductivity and Turbidity in nephelometric turbidity units, for each well.
 - (3) Descriptions of water sample appearance (clarity, color, etc.) shall be recorded.
 - (4) The total depth of each well, which is not equipped with a dedicated pump, shall be measured during each sampling event.

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[VI.D.2.e.(4) cont]

The total depth of each well equipped with a dedicated pump shall be measured when pumps are removed for maintenance. At a minimum, the wells with dedicated pumps will be checked for silting every 3 years. The measured total depth shall be compared to the total depth recorded on the well construction log. Should an analysis of the measured and the recorded total depth reveal that the well is silting in, the permittee shall perform such actions necessary (redevelopment, replacement, etc.) to enable the well to function properly.

(5) All wells specified in this permit shall be inspected during each sampling event. Repairs or a proposal for replacement for any affected well shall be performed within ninety (90) days of the routine sampling event inspection which identified the problem well.

3. Statistical Procedures for Data Evaluation

- a. For each POC Well sampled during each sampling event, the permittee shall determine whether there is evidence of an statistically significant increase (SSI) in the concentrations of each volatile and semivolatile organic monitoring Parameter listed Table VI.B.3.c.-Groundwater Detection Monitoring Parameters as outlined in Provision VI.D.3.b.
- b. The procedures that shall be used to determine if an increase has occurred over background values shall be direct comparison to the concentration limits listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters for volatile and semivolatile organics, for the following unit identified in Provision VI.A.1.: TCEQ Permit Unit Nos. 2 and 12. To employ the identified evaluation procedure, the permittee is required to collect a minimum of one sample from each unit's Background and POC Wells following the sampling schedule outlined in Provision VI.D.2.d. If a measured value exceeds the concentration limit, the permittee shall promptly resample monitoring well(s) in question, determine the concentration of the parameter(s) for which the exceedence was indicated and compare the results of the re-sampling event to the concentration limit(s). The permittee has determined an SSI has occurred if the re-sample analysis confirms the initial result.
- c. If it is determined that the selected statistical procedure is not appropriate to conduct data evaluation for a specified unit, then the permittee shall select an alternate statistical procedure. Prior to using a statistical procedure which is different than the one identified in Provision VI.D.3.b. the permittee shall obtain approval from the Executive Director through a permit amendment or modification as specified in 30 TAC Sections 305.62 and 305.69, respectively.

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[VI.D cont]

4. Data Evaluation

- a. Statistical data evaluations shall be completed within sixty (60) days of the sampling date unless QA/QC procedures show that data is unacceptable and re-analysis or resampling must be performed. In such cases, the Executive Director will be notified as soon as it becomes apparent that the 60-day time limit to conduct data evaluation cannot be met.
- b. Statistical data evaluation shall determine whether there is evidence of an SSI for the volatile and semi-volatile organic monitoring Parameters listed in <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> each time groundwater quality is determined at the POC in accordance with 30 TAC Section 335.163(7).
- c. In addition to the statistical evaluation procedures established in <u>Provision VI.D.3.</u>, the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in <u>Table VI.B.3.c.</u> <u>Groundwater Detection Monitoring Parameters.</u>

 This data evaluation shall consist of a review of graphical representations of each of the metal parameter concentrations in each well over time. This evaluation of the metals data shall be performed annually and included in the annual report required under <u>Provision VI.G.</u>

E. Response Requirements for Increase in Groundwater Monitoring Parameters

- 1. If the permittee has determined an SSI for any of the Groundwater Monitoring Parameters identified in <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> in accordance with procedures authorized by <u>Provision VI.D.3.</u> and specified by the permittee, the permittee shall perform the following actions:
 - a. Notify the Executive Director in writing, within seven (7) days. The notification must indicate which Groundwater Detection Monitoring Parameter(s) of <u>Table VI.B.3.c.-Groundwater Detection Monitoring Parameters</u> has exhibited an SSI.
 - b. Immediately sample the ground water in all wells of <u>Table VI.B.3.b.-Unit Groundwater</u>

 <u>Detection Monitoring System</u> which exhibit an SSI for the specified unit and determine whether constituents of Appendix IX of 40 CFR 264 are present, and if so, in what concentrations.
 - c. For any Appendix IX hazardous constituent found in the analysis pursuant to <u>Provision VI.E.1.b.</u>, the permittee may resample for hazardous constituents within one month and repeat the analysis for those compounds detected. If the results of the second analysis

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[VI.E.1.C. cont]

confirm the initial results, then these detected constituents will form the basis for a Compliance Monitoring Program. If the permittee does not resample for the constituents found pursuant to <u>Provision VI.E.1.b.</u>, the hazardous constituents found during the initial Appendix IX analysis will form the basis for the Compliance Monitoring Program.

d. Upon establishing that a release has occurred from a unit, the permittee shall submit to the Executive Director a permit amendment or modification to modify the Detection Monitoring Program and a compliance plan application to initiate a Compliance Monitoring Program and/or a Corrective Action Program for the specified unit. The permit and compliance plan applications must be submitted based on the following

schedule:

- (1) If ground water downgradient of the specified unit does not exceed the requirements in 30 TAC Section 335.158 for the proposed groundwater protection standard (GWPS), then within ninety (90) days, the permittee shall submit a permit amendment and a compliance plan application to establish a Compliance Monitoring Program for the specified unit;
- (2) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an Alternate Concentration Limit (ACL) is not being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application to establish a Corrective Action Program for the specified unit.
- (3) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an ACL is being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application with an ACL demonstration to establish a Corrective Action Program for the specified unit.
- 2. If the permittee determines that there is an SSI above (or for pH, a statistically significant variation from) background values for the Groundwater Detection Monitoring Parameters specified in Table VI.B.3.c., the permittee may demonstrate a source other than the RCRA-regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation. In such cases, the permittee shall perform the following actions:

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[VI.E.2. cont]

a. Notify the Executive Director in writing within seven (7) days that the permittee intends to make a demonstration.

- b. Within ninety (90) days, submit a report to the Executive Director which demonstrates that a source other than a RCRA-regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation.
- c. Submit to the Executive Director an application for a permit amendment or modification and a compliance plan application to make any appropriate changes to the Detection Monitoring Program at the facility. The applications shall be submitted in accordance with Provision VI.E.1.d.
- d. Continue to monitor ground water in accordance with the Detection Monitoring Program at the facility.

F. Revised Detection Monitoring Program

If the permittee or the Executive Director determines that the Detection Monitoring Program no longer satisfies the requirements of 30 TAC Section 335.164, the permittee must, within ninety (90) days of either the permittee's determination or Executive Director's notification, submit a permit amendment or modification request to make any appropriate changes to the Detection Monitoring Program which will satisfy the regulations.

G. Annual Detection Monitoring Reporting Requirements

The permittee shall submit an Annual Detection Monitoring Report which shall include the following information determined since the previously submitted report:

- 1. A statement whether an SSI has occurred over background values in any well during the previous calendar year period and the status of any increase events.
- The results of all monitoring, testing, and analytical work obtained or prepared pursuant to the
 requirements of this permit, including a summary of background groundwater quality values,
 groundwater monitoring analyses, statistical calculations, graphical evaluations, and drawings.
- 3. The groundwater flow rate and direction in the uppermost aquifer. The rate and direction of ground water flow shall be established using, but not limited to, the data collected during the preceding calendar year's sampling events from the monitoring wells of the Detection Monitoring Program. The permittee shall also include in the report all documentation used to determine the groundwater flow rate and direction.

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[VI.G. cont]

4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurements in each detection monitoring system well sampled during each monitoring event. All data or documentation used to establish the contour map should be included in the report.

- 5. Recommendation for any changes.
- 6. Any other items requested by the Executive Director.

H. Record Keeping Requirements

- The permittee shall enter all monitoring, testing, analytical, statistical test computation data used in evaluating groundwater monitoring data, and inspection data obtained or prepared pursuant to the requirements of this permit, including graphs and drawings, in the operating record at the facility.
- 2. The operating record at the facility shall be made available for review by the staff of the Commission upon request.

I. Compliance Scheduling Requirements

The permittee shall submit the following in accordance with the scheduled time periods:

1. The permittee shall complete the installation of all wells required by <u>Table VI.B.3.b.-Unit</u> <u>Groundwater Detection Monitoring System</u> prior to waste disposal in the corresponding landfill cell(s) as outlined in the Part B Application, Attachment VI, which is incorporated into this permit through permit Provision I.B.

VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

A. Facility Closure

The permittee shall follow the closure plan, developed in accordance with 40 CFR Part 264
Subpart G, and contained in the permit application submittals identified in <u>Provision I.B.</u>
except as modified by this permit.

Additionally, facility closure shall also commence:

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[VII.A.1 cont]

a. Upon direction of the TCEQ for violation of the permit, TCEQ Rules, or State Statutes; or

- b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to receive, store, process, or dispose of waste materials; or
- c. Upon abandonment of the site; or
- d. Upon direction of the TCEQ for failure to secure and maintain an adequate bond or other financial assurance as required by <u>Provision VII.B.1.</u>
- 2. Request for Permit Modification or Amendment

The permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved Closure Plan(s), in accordance with 40 CFR 264.112 (c). The written request shall include a copy of the amended Closure Plan(s) for approval by the Executive Director.

3. Time Frames for Modification\Amendment Request Submittal

The permittee shall submit a written request for a permit modification or amendment in accordance with the time frames in 40 CFR 264.112 (c)(3).

- 4. Closure Notice and Certification Requirements
 - a. The permittee shall notify the Executive Director, in writing, at least 60 days prior to the date on which he expects to begin partial or final closure of a surface impoundment, or landfill unit, or final closure of a facility with such a unit; or at least 45 days prior to the date on which he expects to begin partial or final closure of a facility with processing or storage tanks, container storage, or incinerator units; or at least 45 days prior to the date on which he expects to begin partial or final closure of a boiler or industrial furnace, whichever is earlier. A copy of the notice shall be submitted to the TCEQ Regional Office.
 - b. The permittee shall notify the TCEQ Regional Office at least ten (10) days prior to any closure sampling activity required by the permit in order to afford regional personnel the opportunity to observe these events and collect samples.
- 5. Unless the Executive Director approves an extension to the closure period, as per the requirements of 40 CFR 264.113(b), the permittee must complete partial and final closure activities within 180 days after receiving the final known volume of hazardous wastes at the hazardous waste management unit or facility. Where the approved Closure Plan contains schedules for closure activities that extend beyond the 180-day closure period, issuance of this

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[VII.A.5. cont]

permit constitutes an approval for an extension to the closure period for those Closure Plan schedules, pursuant to the requirements of 40 CFR 264.113(b).

- 6. As per the requirements of 40 CFR 264.115, within 60 days of completion of closure of each permitted hazardous waste surface impoundment, or landfill unit, and within 60 days of the completion of final closure, the permittee shall submit to the Executive Director, by registered mail, with a copy to the TCEQ Regional Office, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved Closure Plan and this permit. The certification, which shall be signed by the permittee and by an independent professional engineer licensed in Texas, must be in the form described in Provision II.A.6. A closure certification report shall be submitted with the required certifications which includes a summary of the activities conducted during closure and the results of all analyses performed. The certification report shall contain the information required by Provision II.A.6. and as maybe applicable, 30 TAC 350.32 (Texas Risk Reduction Program (TRRP) Remedy Standard A) and 30 TAC Section 350.33 (TRRP, Remedy Standard B) and [VII.A.6] 30 TAC Section 350.95 (Response Action Completion Report (RACR)). Documentation supporting the independent licensed professional engineer's certification shall be furnished to the Executive Director upon request until the Executive Director releases the permittee from the financial assurance requirements for closure under 40 CFR 264.143(i).
- 7. For each disposal unit closed after permit issuance, the permittee shall submit documentation to demonstrate compliance with 40 CFR 264.116 (relating to survey plat) and 264.119 (relating to post-closure notices). Documentation to demonstrate compliance with survey plat requirements must be submitted to the TCEQ at the time of submission of the certification of closure. Documentation to show compliance with post-closure notices must be submitted to the TCEQ no later than 60 days after certification of closure.
- 8. Final closure is considered complete when all hazardous waste management units at the facility have been closed in accordance with all applicable closure requirements so that hazardous waste management activities under 40 CFR Part 264 and 265 are no longer conducted at the facility unless subject to the provisions in 40 CFR 262.34.
- 9. All units, sumps, pumps, piping and any other equipment or ancillary components which have come in contact with hazardous wastes shall either be decontaminated by removing all waste, waste residues, and sludges or be disposed of in a manner authorized at this facility or disposed of at an authorized off-site facility.
- 10. All contaminated equipment/structures and liners (i.e., debris) intended for land disposal shall be treated in a manner which meets or exceeds the treatment standards for hazardous debris contained in 40 CFR 268.45 or removed and managed at an authorized industrial solid waste management facility. All contaminated dikes and soils intended for land disposal shall be treated in a manner which meets or exceeds the treatment standards for hazardous soils

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[VII.A.10. cont]

contained in 40 CFR 268.49 or removed and managed at an authorized industrial solid waste management facility.

11. All hard-surfaced areas excluding asphalt paved areas of Bin Storage Units within the hazardous waste management unit areas shall be decontaminated and the wash water generated treated and/or disposed in a manner authorized at this facility or at an authorized off-site facility.

- 12. Other than asphaltic paved areas of Bin Storage Units, verification of decontamination shall be performed by analyzing wash water, and as necessary, soil samples for the hazardous constituents which have been in contact with the particular item being decontaminated. Verification of decontamination of asphaltic paved areas shall be performed by analyzing soil samples as described in the Closure Plan of the permit application. In addition, the permittee shall perform visual inspections of the equipment/structures for visible evidence of contamination.
- 13. For the permitted storage and processing units, unless it can be demonstrated that soil contamination has not occurred, soils shall be sampled and analyzed. Sufficiently detailed analyses of samples representative of soils remaining in non-hard-surfaced areas of the storage and processing facility area shall be performed to verify removal or decontamination of all waste and waste residues.
- 14. Soil and/or wash-water samples shall be analyzed using laboratory methods specified in Provision II.B.1.b.. Equivalent or modified methods, must be specified in the Closure Plan and have written approval of the Executive Director prior to use. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the Quality Assurance Project Plan for the Texas Commission on Environmental Quality for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act (TCEQ QAPP).
- 15. Decontamination shall be deemed complete when no visible evidence of contamination is observed and when the results from verification sampling and analyses indicate wash water concentrations and/or soil concentrations are below the applicable critical Protective Concentration Level (PCL) for Remedy Standard A. If the underlying soils are decontaminated or removed to the PCL for Remedy Standard A, Commercial/Industrial Land use, the permittee shall comply with the institutional controls requirements of 30 TAC Section 350.111 as required.

B. Financial Assurance for Closure

1. The permittee shall provide financial assurance for closure of all existing permitted units covered by this permit in an amount not less than \$ 10, 719,478 (2011 dollars) as shown on Table VII.E.1 - Permitted Unit Closure Cost Summary. The permittee shall provide financial

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[VII.B cont]

assurance for the unconstructed proposed units in an amount not less than \$ 4,997,929 (2011 dollars) as shown on <u>Table VII.E.1.-Permitted Unit Closure Cost Summary</u> in accordance with <u>Provision VII.B.1.a.(1)</u>. Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 335.179. Financial assurance is subject to the following:

a. Adjustments to Financial Assurance Amount:

- (1) At least 60 days prior to acceptance of waste in proposed permitted units listed in <u>Table VII.E.1.- Permitted Unit Closure Cost Summary</u>, the permittee shall increase the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit additional financial assurance documentation.
- (2) The amount of financial assurance for closure of existing units, may be reduced by the amount listed in <u>Table VII.E.1.-Permitted Unit Closure Cost Summary</u>, upon certification of closure of an existing permitted unit, in accordance with <u>Provision VII.A.4.</u>, and upon written approval of the Executive Director.

b. Annual Inflation Adjustments

Financial assurance for closure, including any adjustments after permit issuance, shall be corrected for inflation according to the methods described by 30 TAC Sections 37.131 and 37.141.

2. The permittee shall submit to the Executive Director, upon request, such information as may be required to determine the adequacy of the financial assurance.

C. Storage, Processing, and Combustion Unit Closure Requirements

The permittee shall close the storage, processing, and combustion unit(s) identified as TCEQ Permit Unit Nos. 4, 5, 6,7, 8a, 8b, 8c, 8d, 8e, 8f, 8g and 11 in accordance with the approved Closure Plans, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), 264.197 (tanks), 264.601 (miscellaneous units), the Texas Risk Reduction Program of 30 TAC Chapter 350 and the following requirements...

1. If all contaminated soils cannot be removed or decontaminated to TRRP Remedy Standard A, the permittee shall close the tank system and perform post-closure care in accordance with the closure and post-closure requirements for landfills, 30 TAC §335.152(a)(5) and 30 TAC Chapter 350, Subchapter B. A Contingent Closure and Post-Closure Plan must be submitted no later than 60 days (Closure Plan) or 90 days (Post-Closure Care Plan) from the date that the permittee or the Executive Director determines that the hazardous waste management unit must

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[VII.C.1 cont]

be closed as a landfill, subject to the requirements of 30 TAC 335.174, or no later than 30 days (Closure Plan) from that date if the determination is made during partial or final closure. Within 60 days of determining that the tank system must be closed as a landfill, the permittee shall submit a permit modification for closure and post-closure as a landfill.

2. The permittee shall close the storm water catch basin and concrete holding pond adjacent to Bin Storage Units 2 and 3 (BSU-2 and BSU-3) in accordance with permit <u>Provisions VII.A.6.</u> through 15.

D. Surface Impoundment Closure Requirements

- The permittee shall close the surface impoundment identified as TCEQ Permit Unit No. 12 (Surface Impoundment) in accordance with the approved Closure Plan, 40 CFR Part 264, Subpart G, 40 CFR 264.228, and the Texas Risk Reduction Program (TRRP) 30 TAC Chapter 350, Remedy Standard A.
- The permittee shall comply with applicable requirements of Provision VII.A for closure of Surface impoundment under Remedy Standard A for decontamination and removal of waste, waste residues, contaminated structures, and equipment.
- 3. Upon decontamination and/or removal of waste, waste residues, contaminated equipment and structures, the permittee shall conduct soil sampling underneath the surface impoundment to demonstrate soil contamination has not occurred. Sufficiently detailed analyses of samples representative of soils underneath the surface impoundment shall be performed to verify removal or decontamination of all waste and waste residues.
- 4. In order to achieve a RSA closure, the permittee must demonstrate that the monitoring of the detection monitoring system described in Permit Provision VI. for surface impoundment shows no statistically significant increase in the water quality of each down-gradient point of compliance well above the established background value or PCL. The permittee may use the groundwater data collected as part of the detection monitoring program to demonstrate this requirement.
- If the surface impoundment is closed under RSA for Commercial/Industrial land use, the permittee shall comply with the institutional control requirements of 30 TAC Section 350.31(g) as appropriate.
- 6. If the permittee intends to remove all hazardous waste from a surface impoundment at closure and is not otherwise required to submit a Contingent Closure or Post-Closure Care Plan under 30 TAC Section 335.169(c)(1) or 40 CFR 264.228(c)(1), a permit modification which includes a Contingent Closure and Post-Closure Plan must be submitted no later than (60) days (Closure Plan) or ninety (90) days (Post-Closure Care Plan) from the date that the permittee or the

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[VII.D.6. cont]

Executive Director determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of 30 TAC Section 335.174, or no later than thirty (30) days (Closure Plan) from that date if the determination is made during partial or final closure.

E. Landfill Closure and Certification Requirements

The permittee shall close the landfill identified as TCEQ Permit Unit No. 2 (East + West Landfill) in accordance with the approved Closure Plan, 40 CFR Part 264, Subpart G, 40 CFR 264.310, TRRP Remedy Standard of 30 TAC Chapter 350 Subchapter B, 30 TAC Section 335.174, and the following requirements:

- 1. The permittee shall install the final cover according to the following procedures:
 - a. A minimum three (3) foot thick layer of compacted clay meeting the construction, material and compaction specifications of <u>Provision V.G.3.b.</u> This layer shall be sloped upwards from the perimeter of the landfill at greater than 2.0% and less than 5.0% to a crown in the center of each cell.
 - b. A continuous layer of 80 mil HDPE geomembrane for Cells A and B and 60 mil HDPE membrane for C through S shall be installed on the compacted clay-rich soil cover and shall be secured in an anchor trench at the perimeter dikes. The installation of the geomembrane shall be in accordance with the applicable requirements of Provision V.G.3.c.
 - c. A drainage layer consisting of geocomposite drainage liner (8-oz non-woven geotextile bonded to Geonet) shall be installed over the geomembrane.
 - d. A layer of mixed topsoil/caliche cobble and fines not less than twenty four (24) inches thick shall be placed over the geo-textile layer. The topsoil shall be prepared to promote natural growth of native vegetation.
 - e. For the topsoil layer, thickness determinations at a rate of at least one (1) determination shall be made by appropriate surveying techniques per every 10,000 square feet of topsoil placed.
 - f. The permittee shall install a permanent benchmark at each corner of all closed landfill cells at the site within six months after closure.
 - g. Within 60 days of certification of closure of the landfill unit, the permittee shall submit to the Executive Director documentation demonstrating compliance with 40 CFR Part 264.119, pertaining to deed recordation.

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[VII.E. cont]

h. Within 60 days of completion of closure of the landfill unit, the permittee shall submit to the Executive Director a closure certification report, as specified in Provisions VII.A.6 and VII.E.2., for the cells not previously certified as closed. The final certification report for closure of the landfill unit shall provide any additional information as required in 40 CFR 264 Subpart G and by Provision VII.E., and shall state that the landfill has been closed in accordance with the specifications in the approved closure plan as required by 40 CFR Section 264.115. The closure certification report shall address the technical requirements specified in 30 TAC Section 350.95 for Response Action Completion Reports (RACR) as applicable.

- 2. After completion of the final cover for a landfill cell(s), the permittee shall submit certification of proper construction of the cap in accordance with <u>Provision II.A.6.</u>
 Each final cover certification shall be accompanied by a certification report which contains the results of all tests performed to verify proper construction. The permittee shall conduct whatever tests, inspections, or measurements are necessary in the judgement of the professional engineer for the engineer to certify that the landfill cap has been constructed in conformance with the design and construction specifications of this permit. The certification report shall, at a minimum, contain the following engineering plans and test results:
 - a. Scaled plan-view and east-west and north-south cross-sections which accurately depict the area boundaries and dimensions of the cover; surrounding natural ground surface elevations; minimum, maximum, and representative elevations of the base on which the interim cover was placed; minimum, maximum, and representative elevations of the upper surface of the interim and final covers; thickness, extent, and materials of component parts of the cover system.
 - b. All observations tests, and analyses required to ensure that the installation has been completed with the terms of this permit and the incorporated design plans.

F. Containment Buildings Closure Requirements

Reserved

G. Facility Post-Closure Care Requirements

For each hazardous waste management unit which is closed as a landfill, the permittee shall conduct post-closure care of the unit for a period of at least 30 years after certification of closure of each respective unit. The post-closure period for each closed unit is specified in <u>Table VII.G - Post-Closure Period</u>. Post-closure care shall be performed in accordance with the Post-Closure Plans referenced in <u>Provision I.B.</u>, 40 CFR 264.117, and the following requirements:

1. Maintain all storm water conveyance structures in good functional condition.

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[VII.G cont]

2. Maintain the cover on the East +West Landfill, as applicable, such that the cover promotes drainage, prevents ponding, minimizes surface water infiltration, and minimizes erosion of the cover. Any desiccation cracks, settlement, erosion, gullying, or other damage shall be repaired upon observance.

- 3. Maintain the cover to promote natural growth of native vegetation.
- 4. Maintain all benchmarks at the facility.
- Maintain the facility perimeter fence, manned or locked gates, and warning signs in good functional condition.
- 6. Ensure that all entrances to the facility have manned or locked gates.
- 7. Ensure that the TCEQ has access to the facility.
- 8. Prepare and submit the Biennial Report required by Provision II.B.7.
- 9. Perform all ground-water monitoring and related activities specified in <u>Provision VI.A.1. and</u> Provision VI.C.3. of the permit.
- 10. Collect and remove pumpable liquids in the leak detection system sumps to minimize the head on the bottom of the liner.
- Manage all liquids removed from the leachate collection and leak detection systems as hazardous waste.
- 12. Maintain a record of the amount of liquids removed from each leak detection system sump at least monthly during the post-closure period, except that the permittee may record the amount of liquids removed from the each leak detection system sump quarterly or semi-annually during the post-closure period, after the final cover is installed, provided that the liquid level in the sump stays below the pump operating level for two consecutive months or quarters, respectively.
- 13. If at any time during the post-closure care period the pump operating level is exceeded at units on quarterly or semi-annual recording schedules, the permittee shall return to monthly recording of amounts of liquids removed from each leak detection system sump until the liquid level again stays below the pump operating level for two consecutive months.
- 14. The permittee shall determine if the action leakage rate specified in <u>Table V.G.1. -Landfills</u> has been exceeded by converting the monthly flow rate from the monitoring data obtained under

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<u>Provisions VII.G.12.</u> to an average daily flow rate (gallons per acre per day) for each sump. The permittee shall calculate the average daily flow rate for each sump on a monthly basis during the post-closure care period.

- 15. If the action leakage rate is exceeded at any time during the post-closure period, the permittee shall perform the following minimum activities:
 - a. Notify the Executive Director in writing of the exceedence within seven (7) days of the determination;
 - b. Submit a preliminary written assessment to the Executive Director within fourteen (14) days of the determination, as to the amount of liquids, likely sources of liquids, possible location, size, and cause of any leaks, and short-term actions taken and planned;
 - c. Determine to the extent practicable the location, size, and cause of any leak;
 - d. Determine whether any waste should be removed from the unit for inspection, repairs, or controls:
 - e. Determine any other short-term and longer-term actions to be taken to mitigate or stop any leaks; and
 - f. Within 30 days after the notification that the action leakage rate has been exceeded, submit to the Executive Director the results of the evaluations specified in Provisions VII.G.15.c., d., and e., the results of actions taken, and actions planned. Monthly thereafter, as long as the flow rate in the leak detection system exceeds the action leakage rate, the permittee shall submit to the Executive Director a report summarizing the results of any remedial actions taken and actions planned.
- 16. To make the leak and/or remediation determinations in <u>Provisions VII.G.15.c.,d.</u>, and <u>f.</u>, the permittee shall:
 - a. Assess the source of liquids and amounts of liquids by source;
 - b. Conduct a fingerprint, hazardous constituent, or other analyses of the liquids in the leak detection system to identify the source of liquids and possible location of any leaks, and the hazard and mobility of the liquid; and
 - c. Assess the seriousness of any leaks in terms of potential for escaping into the environment; or
 - d. Document why such assessments are not needed.

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[VII.G cont]

17. General Post-Closure Requirements

Request for Permit Modification or Amendment

The permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved Post-Closure Plan(s) in accordance with 40 CFR 264.118 (d)(2). The written request shall include a copy of the amended Post-Closure Plan(s) for approval by the Executive Director.

Time Frames for Modification/Amendment Request

The permittee shall submit a written request for a permit modification or amendment in accordance with the time frames in 40 CFR 264.118 (d)(3).

18. Post-Closure Notice and Certification Requirements

No later than 60 days after completion of the established post-closure period for each unit, the owner or operator shall submit to the Executive Director, by registered mail with a copy to the TCEQ Regional Office, a certification that the post-closure period for the unit was performed in accordance with the specifications of the approved Post-Closure Plan and this permit. The certification shall be signed by the permittee and a registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the Executive Director upon request until the Executive Director releases the owner or operator from the financial assurance requirements for post-closure under 40 CFR 264.145 (i).

H. Financial Assurance for Post-Closure

- The permittee shall provide financial assurance for post-closure care of all existing units required by this permit in an amount not less than \$2,332,438 (2011 dollars) as shown on <u>Table</u> <u>VII.E.2.-Permitted Unit Post Closure Cost Summary</u>. Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P and 30 TAC Section 335.152.
 - a. Adjustment to financial Assurance Amount

At least 60 days prior to management of waste in proposed permitted units listed in <u>Table VII.E.2.- Permitted Unit Post-Closure Cost Summary</u>, the permittee shall increase the amount of financial assurance required for post-closure by the amounts listed in <u>Table VII.E.2.-Permitted Unit Post-Closure Cost Summary</u> and shall submit additional financial assurance documentation.

b. Inflation Factor Correction

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[VII.H cont]

During the active life of the facility, financial assurance for post-closure care (including adjustments after permit issuance) shall be corrected for inflation according to the methods described by 30 TAC, Sections 37.131 and 37.141.

2. The permittee shall submit to the Executive Director, upon request, such information as may be required to determine the adequacy of the financial assurance.

VIII. LIABILITY REQUIREMENTS

A. Sudden and Nonsudden Accidental Occurrences

- 1. The permittee shall demonstrate continuous compliance with the requirements of 30 TAC Chapter 37, 30 TAC § 335.152(a)(6) and Subchapter P to maintain liability coverage for sudden and accidental occurrences of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense costs.
- 2. The permittee also shall demonstrate continuous compliance with the 30 TAC Chapter 37, 30 TAC § 335.152(a)(6) and Subchapter P requirements to have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least \$3 million per occurrence, with an annual aggregate of at least \$6 million, exclusive of legal defense costs.
- 3. The permittee may combine the required per-occurrence coverage levels for sudden and nonsudden accidental occurrences into a single per-occurrence level, and combine the required annual aggregate coverage levels for sudden and nonsudden accidental occurrences into a single annual aggregate level. Owners or operators who combine coverage levels for sudden and nonsudden accidental occurrences shall maintain liability coverage in the amount of at least \$4 million per occurrence and \$8 million annual aggregate.

B. Incapacity of Owners or Operators, Guarantors, or Financial Institutions

The permittee shall comply with 30 TAC § 37.71, regarding bankruptcy, whenever necessary.

IX. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

A. Notification of Release From Solid Waste Management Unit

If a solid waste management unit (SWMU) or area of contamination (AOC) not previously

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[IX.A cont]

addressed in the RCRA Facility Assessment (RFA), or any release of hazardous waste or hazardous constituents that may have occurred from any SWMU and/or AOC, is discovered subsequent to issuance of this permit, the permittee shall notify the Executive Director in writing within fifteen (15) days of the discovery. Within forty-five (45) days of such discovery, the permittee shall submit an RFA for that unit or release which shall be based on U.S. EPA RCRA Facility Assessment Guidance, October 1986, NTIS PB 87-107769. If the RFA indicates a release or suspected release warrants further investigation, the permittee shall comply with the requirements of <u>Provision IX.B.</u> of this permit.

B. Corrective Action Obligations

The permittee shall conduct corrective action as necessary to protect human health and the environment for all releases of hazardous waste and hazardous constituents from any SWMU. The permittee shall fulfill this obligation by conducting a Corrective Action Program which consists of a RCRA Facility Investigation (RFI) of the unit/area identified. The permittee shall conduct a RFI to determine whether hazardous waste or hazardous constituents listed in 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264, Appendix IX have been released to into the environment. Upon completion of the RFI the Permittee shall submit to the TCEQ either a demonstration that no release occurred or an Affected Property Assessment Report (APAR) showing the vertical and lateral nature and extent of the release. If it is determined that hazardous waste or hazardous constituents have been or are being released into the environment, then the permittee may be required to implement those activities listed in the Response Action Plan (RAP) to protect human health and the environment. Upon completion of the RAP implementation the permittee must submit to the TCEQ, as applicable, a Response Action Effectiveness Report (RAER) which details the activity that will be taken to remove, decontaminate and/or control chemicals of concern (COC) which may be present at the facility in excess of critical Protective Concentration Levels (PCLs) in the environmental media. The report shall include actions taken in response to releases to environmental media from waste a management unit(s) before, during, or after closure.

Upon Executive Director's review of the Corrective Action Program obligations, the permittee may be required to perform any or all of the following:

- 1. conduct investigation(s);
- 2. provide additional information;
- 3. conduct additional investigation(s);
- 4. investigate an additional unit(s);

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[IX.B. cont]

5. proceed to the next task in the Corrective Action Program and/or;

6. submit an application for a new compliance plan or modification to an existing compliance plan to implement corrective measures.

Any additional requirements must be completed within the time frame(s) specified by the Executive Director.

C. Units Requiring Investigation

Not Applicable

D. Variance from Investigation

The permittee may elect to certify that no hazardous waste or hazardous constituents listed in 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264, Appendix IX are or were present/managed in a unit listed in Provision IX.C. in lieu of performing the investigation required in Provisions IX.B. and E., provided that confirming data is submitted for the current and past waste(s) managed in the respective unit. The permittee shall submit such information and certification(s) on a unit-by-unit basis in the time frame required in <u>Provision IX.E.</u> for review and approval by the Executive Director of the TCEQ. If the permittee cannot demonstrate and certify that hazardous waste or hazardous constituents are not or were not present in a particular unit, the investigation required in Provisions IX.B. and E. shall be performed for the unit.

E. RCRA Facility Investigation (RFI)

Within sixty (60) days from the date of issuance of this permit the permittee shall submit a schedule for completion of the RFI(s) for the SWMU(s) or area(s) of contamination listed in Provision IX.C. to the Executive Director for approval. Also, within sixty (60) days of approval of a RFA Report which recommends further investigation of a SWMU(s) or area(s) of contamination in accordance with Provision IX.A., the permittee shall submit a schedule for completion of the RFI(s) to the Executive Director for approval. The permittee shall initiate the investigations in accordance with the approved schedule and shall address all of the items for RFI Workplans and RFI Reports contained in U.S. EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994. If the permittee elects to use an alternate investigation approach, Executive Director approval of the workplan will be required prior to initiation of investigation(s). The results of the RFI must be submitted to the Executive Director for

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[IX.E. cont]

approval within the time frame established in the approved schedule either as a demonstration that no release occurred or in the form of an APAR. The APAR must document results of the investigation(s). The report shall be considered complete when the full nature and extent of the contamination, Quality Assurance/Quality Control procedures and Data Quality Objectives are documented to the satisfaction of the Executive Director.

F. Response Action Plan (RAP)

Upon approval of the activities outlined in the APAR, if it is determined that there has been a release into the environment of hazardous waste or hazardous constituents listed in 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264 Appendix IX, which appears to be a risk to human health and the environment, then within the time frame(s) specified by the Executive Director following approval of the APAR, the permittee shall submit a RAP. This plan shall evaluate the risk, identify and evaluate corrective measure alternatives and recommend appropriate corrective measure(s) to protect human health and the environment. The RAP shall address all of the applicable items in 30 TAC 350 Subchapter B and Subchapter E and the U.S. EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994.

a. Response Action Completion Report (RACR)

The permittee shall submit a RAP within the time frame required by the Executive Director, not to exceed one-hundred-eighty (180) days from the date of approval of the APAR. The RAP shall address all of the items for Corrective Measures Implementation (CMI) Workplans contained in the U.S. EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994. If the RAP does not propose a permanent -remedy, then a RAP shall be submitted as part of a new compliance plan application or as a modification/amendment application to an existing compliance plan. The RAP shall contain detailed final engineering design and monitoring plans and schedules necessary to implement the selected remedy. Implementation of the corrective measures shall be addressed through a new and/or modified/amended compliance plan. Upon installation of a corrective action system based upon the approved RAP, the permittee shall submit a RACR. Approval of the RACR places the SWMU in a status of conditional No Further Action, reflecting that the remedy is in place, controls must be maintained, and effectiveness must be monitored. To report the progress of the corrective measures, the permittee shall submit the Post-Response Action Care Report (PRACR) to the TCEQ in accordance with the schedule specified in the compliance plan to show the progress of actions taken.

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[IX cont]

G. Compliance Plan

Not Applicable

X. AIR EMISSION STANDARDS

A. Process Vents and Equipment Leaks

1. Emissions from this facility must not cause or contribute to a condition of "air pollution" as defined in Section 382.003 of the Texas Health and Code Ann. or violate Section 382.085 of the Texas Health and Safety Code Ann. If the Executive Director of the TCEQ determines that such a condition or violation occurs, the permittee shall implement additional abatement measures as necessary to control or prevent the condition or violation.

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2. Requirements for Subparts AA and BB

- a. The permittee must comply with the requirements of 30 TAC Section 335.152(a)(17)/40 CFR Part 264 Subpart AA and 30 TAC Section 335.152(a)(18)/40 CFR Part 264 Subpart BB, as applicable.
- b. The permittee shall include in the Biennial Report, required in Provision II.B.7., a statement that hazardous waste management units or associated ancillary equipment at this facility are not subject to any of the requirements in Provision X.A.2.a., if these requirements are not applicable to any hazardous waste management units or associated ancillary equipment at this facility. If at any time any hazardous waste management units or associated ancillary equipment become subject to the requirements in Provision X.A.2.a., the permittee must immediately comply with these requirements.

c. Requirements for Subpart CC

The permittee must comply with the requirements of 40 CFR Part 264 Subpart CC, as applicable.

TABLE III.D. INSPECTION SCHEDULE (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection	
GENERAL INSPECTION (ACTIVE FACI	LITY) - SECURITY DEVICES		
Perimeter Fence	Check for breaches and damage	Monthly	
Gates	Check for damage	Weekly	
	Check for proper operation		
	Check for presence and function of locking mechanism		
Perimeter Warning Signs	Check for presence and legibility of warning signs	Monthly	
Exterior Lighting	Check for proper function	Weekly	
GENERAL INSPECTION (POST-CLOSUI	RE) – SECURITY DEVICES		
Perimeter Fence	Check for breaches and damage	Semiannually	
Gates	Check for damage	Semiannually	
	Check for proper operation		
	Check for presence and function of locking mechanism		
Perimeter Warning Signs	Check for presence and legibility of warning signs	Semiannually	
GENERAL INSPECTION (ACTIVE FACIL	LITY) – ENVIRONMENTAL MONITORING SYSTEMS		
Groundwater Monitoring Wells	Check integrity of pad and subgrade	Semiannually	
	Check protective casing		
	Presence of labelPresence/proper function of cap and lock		
	- Fresence/proper function of cap and lock - Evidence of damage or instability		
	Check well casing		
	- Presence of cap		
	- Evidence of damage or instability		
GENERAL INSPECTION (POST-CLOSURE) – ENVIRONMENTAL MONITORING SYSTEMS			
Groundwater Monitoring Wells	Check integrity of pad and subgrade	Annually when each well is	
	Check protective casing	monitored	
	- Presence of label		
	 Presence/proper function of cap and lock Evidence of damage or instability 	1	
	Check well casing	1	
	- Presence of cap	1	
	Evidence of damage or instability	1	

TABLE III.D. INSPECTION SCHEDULE
(Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
GENERAL INSPECTION (ACTIVE FACIL	ITY) – SAFETY AND EMERGENCY EQUIPMENT	
Protective Clothing Designated for Emergency Use	 Check for adequate supply Check accessibility Check for deterioration/damage 	Monthly or after each use
Breathing Apparatus	 Check for adequate supply Check accessibility Check for deterioration/damage Check for function 	Monthly or after each use
First Aid Kits	Check for adequate supply Check accessibility	Monthly or after each use
Emergency Showers and Eye Wash Stations	 Check that units activate and shut off properly Check water pressure Check accessibility 	Monthly
Alarm Systems (Plant-wide and operational areas)	Check accessibilityActivate alarm (power/battery failure/function)	Monthly
Internal (2-way radio) and External (phone) Communications Systems	Check accessibility Check operation	Monthly
Fire Extinguishers	 Check pressure gauge for full charge indication Check inspection tag to ensure annual maintenance by qualified inspection service is up-to-date Check seal to ensure that no one has used extinguisher Check accessibility 	Monthly or after each use
Spill Control Supplies (shovels, brooms, booms, etc.) and Kits	 Check for adequate supply Check accessibility Check for deterioration/damage 	Monthly or after each use
Absorbent Supply	Check for adequate supply	Monthly or after each use
Empty Drums	Check for adequate supply	Monthly
Other Safety and Emergency Equipment	 Check for adequate supply Check accessibility Check for deterioration/damage Check proper operation 	Monthly

TABLE III.D. INSPECTION SCHEDULE (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection	
Emergency Information List	 Check current information Check for posting at each phone 	Monthly	
Emergency Lighting and Exit Signs	Check for proper function	Monthly	
Facility Warning Signs (No Smoking, Authorized Personnel Only, etc.)	Check for presence and legibility	Monthly	
Fire Suppression Systems	 Check water hoses for damage and accessibility Check water delivery systems for corrosion, damage and proper valve functioning Check sprinkler system pressure gauges, pipes, sprinkler heads, obstructions to flow, adequate water supply, compressors, etc. 	Monthly	
Fire Detection Systems	Check for power/battery failure	Monthly	
RAILCAR LOADING/UNLOADING AND	INSPECTION AREAS (ACTIVE FACILITY)		
Railcar Pedestal Unloading Building	 Check for evidence of spills, leaks, or other releases Check for secure tarps or other closure devices on full railcars Check for integrity of truck loading pads 	Daily when in use	
Railcar Dumper Building	 Check for evidence of spills, leaks, or other releases Check for secure tarps or other closure devices on full railcars Check for liquids or other materials within containments and sumps Check for integrity of floor and curbing 	Daily when in use	
Railcar Pedestal Unloading Building Truck Haul Road	Check for evidence of spills, leaks, or other releases	Daily when in use	
Railcar Dumper Truck Haul Road	Check for evidence of spills, leaks, or other releases	Daily when in use	
Railcar Staging and Loading Areas	 Check for evidence of spills, leaks, or other releases Check for secure tarps, lids or other closure devices Check for storm water on tarps 	Daily when in use	

TABLE III.D. INSPECTION SCHEDULE
(Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Railroad Container Unloading Area	Check for evidence of spills, leaks, or other releases	Daily when in use
	Check for liquids or other materials on floors or in sump(s)	-
	Check for secure container lids, tarps or other closure devices	
	Check for integrity of floors and curbing	
Inspection Station/Truck Scales	Check for evidence of spills, leaks, or other releases	Daily when in use
CONTAINER STORAGE UNIT INSPECTION		
Container Storage Building	Check for liquids or other materials on floors	Weekly
	Check for condition of containers	
	Check for secure container lids, tarps or other closure devices	
	Check for integrity of floors and curbing	
	Check adequacy of aisle space	
	Check for proper container placement (pallets, stacking, etc.)	
Container Storage Building Dock and Staging	Check for evidence of spills, leaks, or other releases	Daily when in use
Areas	Check for liquids and other materials in sumps	
	Check for secure container lids, tarps, or other closure devices	
	Check for integrity of floors, curbing, sumps and grates	
Bin Storage Unit 1	Check for liquids or other materials on floors and in trenches and sumps	Weekly
	Check for condition of containers	
	Check for secure container lids, tarps, or other closure devices	
	Check for integrity of floors and curbing	
	Check adequacy of aisle space	
	Check for proper container placement (pallets, stacking, etc.)	
	Check for storm water on bin tarps	

TABLE III.D. INSPECTION SCHEDULE (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Bin Storage Units 2 and 3	 Check for liquids or other materials on asphalt pad and in storm water basins Check for condition of containers Check for secure container lids, tarps, or other closure devices Check for integrity of asphalt pad and curbing Check for storm water on bin tarps Check adequacy of aisle space Check for proper container placement (pallets, stacking, etc.) 	Weekly
Stabilization Building Container Storage Areas	 Check for liquids or other materials on floors Check for condition of containers Check for secure container lids, tarps, or other closure devices Check for integrity of floors and curbing Check adequacy of aisle space Check for proper container placement (pallets, stacking, etc.) 	Weekly
	TMENT AREA INSPECTIONS (ACTIVE FACILITY)	
Mixing Tanks	 Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions) Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks 	Daily when in use, weekly otherwise Quarterly when in use
	Check for presence of liquids in leak detection system pipes	Daily when in use, weekly otherwise
Ancillary Equipment	Check for damage to sealing system between tanks and floor	Daily when in use, weekly otherwise
	Check for liquids or other materials on floors and around leak detection system inspection ports	Daily when in use, weekly otherwise
	Check the condition of bins or other containers	Weekly when in use
	Check for integrity of floors and curbing	Weekly when in use
	Check vents for clogging or restriction	Weeldy when in use
·	Check heavy equipment for damage and proper function	Weekly when in use

TABLE III.D. INSPECTION SCHEDULE

(Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Emissions Control Equipment	Check the baghouse system for damage and proper operation	Weekly when in use
Loading/Unloading Areas (north and south)	Check for evidence of spills, leaks, or other releases	Daily when in use
MIXED WASTE STABILIZATION BUILI	DING TREATMENT AREA INSPECTIONS (ACTIVE FACILITY)	
Mixing Tanks	Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions)	Daily when in use, weekly otherwise
	Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks	Quarterly when in use
	Check for presence of liquids in leak detection system pipes	Daily when in use, weekly otherwise
Ancillary Equipment	Check for damage to sealing system between tanks and floor	Daily when in use, weekly otherwise
	Check for liquids or other materials on floors and around leak detection system inspection ports	Daily when in use, weekly otherwise
	Check for integrity of floors and curbing	Weekly when in use
	Check the condition of bins or other containers	Weekly when in use
	Check heavy equipment for damage	Weekly when in use
	Check shredder and drum crusher for damage, leaks	Weekly when in use
	Check waste compactor for damage, leaks	Weekly when in use
Emissions Control Equipment	Check vents for clogging or restriction	Weekly when in use
	Check ventilation system for damage and proper operation	Weekly when in use
Loading Bay	Check for evidence of spills, leaks, or other releases	Daily when in use
LANDFILL INSPECTION (ACTIVE FACE	LITY)	
Perimeter Dikes	Check dikes for erosion and deterioration	Weekly and after storm events
Drainage System	 Check ditches for erosion, siltation and debris Check landfill cells for accumulation of storm water 	Weekly and after storm events

TABLE III.D. INSPECTION SCHEDULE

(Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Cover Systems	 Check interim cover for erosion, deterioration, or dust dispersal Check final cover for erosion, deterioration, and condition of vegetative cover 	Weekly and after storm events
Wind Dispersal Control	Check for evidence of waste, reagent, or dust dispersal	Weekly
Leachate Collection System	 Check for presence and level of liquid in risers Check condition of risers and manholes Check pump and level alarm function Check integrity of temporary accumulation vessel(s) 	At least weekly and after storm events
Leak Detection System	 Check for presence and level of liquid in risers Check condition of risers and manholes Check pump function Check integrity of temporary accumulation containers 	At least weekly
Truck Wash	 Check the integrity of the containment skid Check washing equipment for damage and operability Check for the presence of liquids and debris within the skid 	Weekly
LANDFILL INSPECTION - (POST-CL	OSURE)	
Perimeter Dikes	 Check dikes for erosion and continuity of cobblestones and vegetation 	Semiannually and after major storm events
Drainage System	 Check ditches for erosion, siltation and debris Check concrete ditches and rundown chutes for grade and debris 	Semiannually and after major storm events
Cover Systems	Check final cover for erosion, grade and continuity of cobblestones and natural vegetation; check for indications of ponding (pooled water, soft areas, etc.)	Semiannually and after major storm events
Leachate Collection System	 Check for presence and level of liquid in risers Check condition of risers and manholes Check pump function 	At least monthly

TABLE III.D. INSPECTION SCHEDULE (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection In accordance with 40 CFR §264.303(c)(2) ¹ .	
Leak Detection System	 Check for presence and level of liquid in risers Check condition of risers and manholes 		
Benchmarks	Check for damageCheck for validity	Semiannually or during any general inspection Every 5 years	
SURFACE IMPOUNDMENT - (ACTIVE I	FACILITY)		
Overtopping Control System	Check level marks on sidewall for damage and visibility.	Weekly and after storm events	
Wastewater Levels	Check for any sudden drops in wastewater levels.	Weekly and after storm events	
Perimeter Dikes/Berms	Check for erosion and deterioration.	Weekly and after storm events	
Leak Detection System	 Check for presence and level of liquid in riser Check condition of riser Check pump function 	At least weekly	
Double walled piping to impoundment	 Check each inspection vault for liquids Check ground surface along pipe route for evidence of release 	At least monthly. Also, prior to initiation of a wastewater transfer and upon completion of the transfer.	

Initially, the leak detection system will be inspected at least monthly. If the liquid level in the riser stays below the portable, submersible pump operating level for two consecutive months, the inspection frequency will be reduced and inspections will be conducted at least quarterly. If the liquid level in the riser stays below the pump operating level for two consecutive quarters, the inspection frequency will be reduced to at least semiannually. If the pump operating level in a riser is exceeded during a quarterly or semiannual inspection, the inspection frequency of that riser will be increased to at least monthly.

777		nergency Equipment Physical Description	Capabilities
Equipment	Location	Filysical Description	Capabilities
Protective Clothing.	Various locations throughout the facility.	Personal Protective Equipment appropriate for the conditions.	Protection in hazardous situations
Air-Purifying Respirators	Various locations as required throughout the facility.	Respirators and equipment for hazardous atmospheres	Respiratory protection in hazardous areas.
Supplied Air Respirators	Various locations as required throughout the facility.	Respirators with supplied air lines	Respiratory protection in hazardous areas
Self-Contained Breathing Apparatus	Various locations as required throughout the facility.	Supplied-air respiratory protection device with air tank	Respiratory protection in hazardous areas
Emergency Shower and Eyewash	Various locations throughout the facility.	Water supply station for prompt personal decontamination	Water removal of contaminants
First Aid Kit	Various locations throughout the facility.	Supplies for minor injury treatment	Prompt care for minor injuries
2-Way Radios	With personnel throughout the facility	Hand-held, battery-operated radios	Internal communications for emergency situations
Telephone System	Various locations throughout the facility.	Fixed and mobile phones	Internal and external communications for emergency situations

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Table III.E.3. – Emergency Equipment					
Equipment	Location	Physical Description	Capabilities		
Emergency Lighting	Various locations throughout the facility, when needed	Battery/generator backup lighting	Illumination in area during emergency conditions		
Plant-Wide Alarm System	Activated in Guard House	Audible Alarm	Audible warning in an emergency		
Emergency Water Supply and Fire Hoses	Various operational areas except landfill	Pumped water from on-site supply	Fire suppression, cooling, decontamination		
Fire Extinguishers	Various operational areas, office buildings; and other areas	Fire extinguishers appropriate for the combustion source.	Fire- suppression		
Sprinkler System/Hydrants	In operational buildings as required by NFPA	Fire water delivery	Fire- suppression		
Spill Control Equipment	Various locations throughout the facility	Shovels, brooms, etc.	Containment and control of released materials		
Empty Containers	Various locations throughout the facility	Clean, 55- gallon drums and lids	Containment of released materials spill cleanup wastes		
Absorbent Materials	Various locations as required throughout the facility	Dry absorbent media, spill booms, etc.	Containment and control of spilled materials		
Portable Pump	Emergency Response Vehicle	Fuel-powered, portable pump	Liquid and sludge removal		
Portable Generator	Emergency Response Vehicle	Fuel-powered, portable generator	Back-up power supply		

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TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

No.	Waste	EPA Hazardous Waste Numbers 1, 2, 3, 4, 5, 6	TCEQ Waste Form Codes and Classification Codes
1	Land Disposable Waste (LDW) w/o free liquids²	Dool Dool	Classification Codes: H, 1, 2, and 3 Form Codes: Lab Packs: (001, 002, 003, 004, 009); Inorganic Liquids: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 198, 199); Organic Liquids: (201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 219, 296, 297, 298, 299); Inorganic Solids: (301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 319, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399); Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 404, 495, 496, 497, 498, 499); Inorganic Sludges: (501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 519, 597, 598, 599); Organic Sludges: (601, 602, 603, 604, 605, 606, 607, 608, 609, 695, 696, 697, 698, 699) Plant Trash: (902, 999).
2	LDW w/ free liquids²	See EPA wastc code list for Waste No. 1 above	See Classification Codes and Form Codes listed for Waste No. 1 above.

TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

No.	Waste	EPA Hazardous Waste Numbers 1,2,3,4,5,6	TCEQ Waste Form Codes and Classification Codes
3	RCRA-only Land Disposal Restricted Waste (LDRW) w/ free liquids	Dool	See Classification Codes and Form Codes listed for Waste No. 1 above.
4	RCRA-only LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.

TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

No.	Waste	EPA Hazardous Waste Numbers 1,2,3,4,5,6	TCEQ Waste Form Codes and Classification Codes
5	Mixed LDRW w/free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
6	Mixed LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
7	Non- Hazardous Industrial Wastes***	Class 1, Class 2, and Class 3 Industrial Solid Wastes	See Classification Codes and Form Codes listed for Waste No. 1 above.
8	Non- Hazardous Non- Industrial Wastes ***	Non hazardous wastes from non industrial entities	Not applicable
		a. Asbestos containing materials	
		b. Non-hazardous off-specification or spent chemical products	
		c. Non-hazardous remediation and demolition waste (e.g., chemically impacted soil, personal protective equipment, and building materials)	
		d. PCB Wastes	
9	LDW with free liquids (generated and treated at the adjacent WCS operated facility permitted by HW-50397)	Fo39 (primary); may also carry one or more U- and/or P-codes due to code carry-through (for decontamination and other non-leachate wastewaters.)	Inorganic Liquids: (116, 119)

- Hazardous waste codes identified in this table are derived from the codes in existence on January 20, 2005.
- 2 LDW wastes may carry any of the codes listed. However, for codes requiring treatment by a specific technology that is not available at the WCS site (e.g., combustion), the waste will have been treated elsewhere to achieve the applicable treatment standard prior to receipt at WCS, and the code carries through to the treatment residue.
- ³ No wastes that are explosive as defined in 49 CFR Part §261.23(a)(6),(7), or (8) are acceptable. Wastes bearing the noted waste codes are acceptable if they are not explosive as defined in the cited regulations.
- 4 Waste compressed gases, except aerosol cans, are not acceptable.
- ⁵ Wastes bearing the Fo20, Fo21, Fo22, Fo23, Fo26 or Fo27 codes will not be disposed in the landfill.
- ⁶ EPA Hazardous Waste Numbers are applicable only to those wastes that are designated as hazardous in accordance with RCRA and that are assigned an "H" classification code.
- *** Subject to limitations of permit Provision IV.B.4.f.

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Waste No.1	Sampling Location	Sampling Method ²	Frequency ³	Parameter4	Test Method ²	Desired Accuracy Level		
	(3)	Erici (1)		Mandatory Analyses (pre- acceptance and fingerprint):				
1, 2, 3, 4,	Generator,			Physical Description	ASTM D 4979	Results match profile		
5, 6	Inspection Station, Railcar Staging Area,	coliwasa, trier, shovel	and once per shipment	pH Screen	ASTM D 4980	Std + 1.0 Standard unit (S.U.)		
	Container		unless	Water Reactivity	ASTM D 5058C	Results match profile		
l I r	Storage Units, Railcar Dumper		exempte d by	Flammability Potential	ASTM D 4982	Duplicate samples must have same reaction		
	Building (waste nos. 1 and 2), Railcar Pedestal), estal aste	WAP	Cyanide Screen	ASTM D 5049 B, C	Duplicate samples must have same reaction		
	Unloading Building (waste				Sulfides Screen	ASTM D 4978	Duplicate samples must have same reaction	
	nos. 1, 2, 3 and 4)						Radioactivity Screen (excluding wastes 4, 5, and 6)	ASTM D 5928
		The same of the sa		Process Analyses for Stabilization:				
3, 4, 5, 6	Generator, Inspection	Scoop, coliwasa,	Prior to	Stabilization Treatability	SW 846 1311	NA		
	Station, Railcar Staging Area,	Station, Railcar trier, shovel treatment	Study (includes TCLP\Total Constituent Analyses (TCA) – metals and/or organics as	SW 846 Methods 6010B, 7471	MS Recovery ± 25%			
	Container Storage Units, Stabilization Building, Railcar Pedestal Unloading Building (waste nos. 3 and 4)			appropriate)	SW 846 Methods 8260B, 8270C	MS Recovery within laboratory limits		

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Waste No.1	Sampling Location	Sampling Method ²	Frequency ³	Parameter4	Test Method ²	Desired Accuracy Level	
Waste No.1	Sampling Location	Sampling Method ²	Frequency ³	Parameter4	Test Method ²	Desired Accuracy Level	
3, 4, 5, 6	Container	Scoop, coliwasa, trier, shovel	First 2 batches; min. 1/year thereafter	Post Treatment Verification	SW 846 1311	NA	
	Storage Units, Stabilization Building,			(TCLP\Total Constituent Analyses (TCA) – metals and/or organics as	SW 846 Methods 6010B, 7471	MS Recovery ± 25%	
·	Railcar Pedestal Unloading Building (waste nos. 3 and 4)		SW 846 Methods 8260B, 8270C	MS Recovery within laboratory limits			
x		a manufacture of the second of		Process Analyses for landfill and surface impoundment:			
1	NA	NA	NA	None	NA	NA	
2,3	Inspection Station, Railcar Staging Area, Container Storage Units, Railcar Dumper Building (waste no. 2), Railcar Pedestal Unloading Building, Stabilization Building	Scoop, coliwasa, trier, shovel	1/batch	Paint Filter Test	SW 846 Method 9095	Duplicate samples must have same reaction	

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Waste No.1	Sampling Location	Sampling Method ²	Frequency ³	Parameter4	Test Method ²	Desired Accuracy Level						
3		See Process Analyses for Stabilization, Post Treatment Verification										
				Supplemental Analyses:								
1,2,3, 4,5, 6, 9		ction coliwasa, trier, shovel, bailer, weighted bottle sampler, pump and 2), ar Pedestal ding (waste s, 2, 3 and abilization coliwasa, trier, shovel, bailer, weighted manage ment sampler, pump	determin ed by facility manage	GC/MS	SW 846 Method 8260B, SW 846 Method 8270C	MS Recovery within laboratory limits						
				PCBs	SW 846 Method 8082	MS Recovery within laboratory limits						
				Commingled Waste Compatibility	ASTM D 5058A	National Institute of Standards and Testing Traceable thermometer used						
				Reactive Sulfides	SW 846 Sec.	Duplicate samples must match.						
			Stabilization			SW 846 Sec. 7.3.3.2	Duplicate samples must match.					
			Oxidizer Screen	ASTM D 4981	Duplicate samples must match							

¹from Table IV.B, first column

²See WAP for additional methods.

³Frequencies shown are generalized for purposes of presentation in this table; see WAP for specifics. ⁴Not all parameters apply to each sample; see WAP for specifics.

TABLE V.B CONTAINER STORAGE AREAS (Source: Permit Application Attachment V.B, Appendix A, Revision 7, 11 June, 2014)

No.	Container Storage Area	N.O.R. Unit #	Rated Capacity	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable,¹ Reactive,¹ or Incompatible² Waste (state all that apply)		
4	Container Storage Building (Compartments 1 through 10)	004	275,000 gal (5,000 55- gal drums or equivalent) ⁴	165 feet x 190 feet	125,160 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
5	Bin Storage Unit 1(BSU-1) {Bin Storage Areas 1 through 3 (BSA 1-3)}	005	3510 yd³ (not to exceed 1000 yd³ of land disposal restricted waste)⁴	160 feet x 404 feet	BSA-1: 634 cubic yards BSA-2: 19,000 gallons ³ BSA-3: 19,000 gallons ³	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
6	Bin Storage Unit 2(BSU-2)	006	3240 yd³ (not to exceed 2160 yd³ of land disposal restricted waste)	160 feet x 400 feet	No Containment Required	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
7	Bin Storage Unit 3(BSU-3)	007	3240 yd³ (not to exceed 2160 yd³ of land disposal restricted waste)	160 feet x 400 feet	No Containment Required	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
8	Stabilization Building	008	-	-	-	_		
8.e	Stabilization Building Container Storage Area (North)	008	12,320 gal (224 55-gal drums or equivalent)	55 feet x 37.5 feet	12,650 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
8.f	Stabilization Building Container Storage Area (South)	008	12,320 gal (224 55-gal drums or equivalent)	55 feet x 40 feet	8,262 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes		
9	Napalm Processing/Railroad Container Unloading Facility	009	Closed	Not Applicable	Not Applicable	Not Applicable		
10	Railcar Bulk Waste Unloading Area	019	Closed	Not Applicable	Not Applicable	Not Applicable		

¹Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.

²Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, or other device.

³ The BSA-2 and BSA-3 containment structures in BSU-1 currently drain to a common storm water collection sump with a nominal capacity of 19,000 gallons (94 cubic yards). The calculated capacity of the sump, based on construction drawings, is 19,747 gallons. The proposed alternate configuration of the BSA-2 and BSA-3 containment structures will provide a combined containment capacity of 713.9 cubic yards for the two units.

⁴The total combined volume of wastes stored in the Container Storage Building and BSA-1 that are assigned the Fo20, Fo21, Fo22, Fo23, Fo26 and Fo27 waste codes will not exceed five 55-gallon drum equivalents.

TABLE V.C TANKS AND TANK SYSTEMS

(Source: Permit Application Attachment V.C, Appendix A, Revision 0, 9 February 2004)

No.	Tank	N.O.R. Unit#	Storage and/or Processing	Waste No.s'	Rated Capacity	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit Will Manage Ignitable, Reactive, or Incompatible Waste (State all that apply)
8	Stabilization Building (Continued)		- -	-				-
8.a.	Mixing Tank MT-1	008	Processing	* All Authorized ** * Wastes	85 cubic yards	-19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic syards	Ignitable: Yes Reactive: Yes Incompatible: Yes
8.b.	Mixing Tank MT-2	008	Processing	All Authorized Wastes	85 cubic yards	19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes
8.c.	Mixing Tank MT-3	008	Processing	All Authorized Wastes	85 cubic yards	19.8'x 19.8'(top) 19.8'x 16.1'(bottom) 6.5'deep	Greater than 85 cubic yards	lgnitable: Yes Reactive: Yes Incompatible: Yes
8.d.	Mixing Tank MT-4	008	Processing	All Authorized Wastes	85 cubic yards	19.8'x 19.8'(top) 19.8'x 16.1'(bottom) 6.5'deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes

ifrom Table IV.B, first column

TABLE V.G.1. LANDFILLS

List the landfills covered by this application. List the waste managed in each unit and the rated capacity or size of the unit.

No.	Landfill	N.O.R. Unit #	Waste No.s ¹	Rated Capacity	Dimensions	Distance from lowest liner to groundwater	Action Leakage Rate (if required) ²	Unit will manage Ignitable, Reactive, Incompatible, or F020, F021, F022, F023, F026, and F027 Waste (state all that apply)
01	Reserved	(Previously	y Permitted as M	ain Landfill, but	is not authorized	under this Permit)		
02	East + West Landfill (Permit Unit No. 2)***	001	1 thru 4, 7, 8	2,310,000 cy	Approximately 41.3 Acres.	72 ft	212 gpad (Cells A-G) 411 gpad (Cells H-k)	Incompatible wastes are properly segregated ³
03	Reserved	(Previously	v Permitted as Co	ondo Landfill Un	it 2, but is not aut	horized under this I	Permit)	

¹from Table IV.B, first column

²If not required in accordance with 40 CFR 264.302, state ANOT REQUIRED.@

³Wastes that exhibit ignitable and/or corrosive characteristics will not be placed in the landfill with those characteristics, but the Doo1 ignitable and/or Doo3 reactive codes will still be associated with the wastes.

*** Waste Nos. 7 and 8 are subject to limitations of permit Provision IV.B.4.f.

TABLE V.G.6. LANDFILL LINER SYSTEM (Source: Permit Application Attachment V.G, Appendix A, Revision August 12, 2013)

No.	Landfill	Primary Liner				Secondary Lin	er	Clay Liner		
		Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness
02	East + West	HDPE	2.7 x 10 ⁻¹³	80 mil (Cells A-G) 60 mil (Cells H-K)	HDPE	2.7 X 10 ⁻¹³	80 mil (Cells A-G) 60 mil (Cells H- K)	Dockum Red Bed	1 X 10-7	3 feet
							7			