HAZARDOUS WASTE PERMIT NO. 50397
EPA ID. NO. TXR000075788 000075788
ISWR NO. 50397

# 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)

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|---|---|
| Name of Permittee: | Waste Control Specialists LLC<br>P.O. Box 1129<br>Andrews, Texas 79714 |
| Site Owner: | Waste Control Specialists LLC<br>P.O. Box 1129<br>Andrews, Texas 79714 |
| Registered Agent for Service: | Corporation Service Company<br>800 Brazos<br>Austin, Texas 78701 |
| Classification of Site: | Hazardous industrial solid waste on-site/off-site, storage 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 dispose of wastes shall expire midnight, ten (10) years after the date of original permit approval.

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.

ISSUED: DEC 23 2008

For The Commission

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## PERMIT/COMPLIANCE PLAN ACRONYMS

| | | |
|---|---|---|
| ACL | – | Alternate Concentration Limit |
| ALR | – | Action Leakage Rate |
| AMP | – | Attenuation Monitoring Point |
| AOC | – | Area(s) of Concern |
| APA | – | Affected Property Assessment |
| APAR | – | Affected Property Assessment Report |
| APOE | – | Alternate Point of Exposure |
| Appendix VIII | – | 40 CFR 261, Appendix VIII (Identification And Listing Of Hazardous Waste - Hazardous Constituents) |
| ASTM | – | American Society for Testing and Materials |
| BGS | – | Below Ground Surface |
| BLRA | – | Baseline Risk Assessment |
| CAO | – | Corrective Action Observation |
| CAS | – | Corrective Action System |
| CCC | – | Coastal Coordination Council |
| CEMS | – | Continuous Emissions Monitoring System |
| CFR | – | Code of Federal Regulations |
| CMI | – | Corrective Measures Implementation |
| CMP | – | Texas Coastal Management Program |
| CMS | – | Corrective Measures Study |
| COC | – | Constituent(s) of Concern |
| EPA | – | United States Environmental Protection Agency |
| EPA SW-846 | – | Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Third Edition, November 1986 |
| GWPS | – | Ground-Water Protection Standard |
| HSWA | – | Hazardous Solids Waste Amendments of 1984 |
| ICM | – | Interim Corrective Measures |
| LDR | – | Land Disposal Restrictions |
| LLMW | – | Low-Level Mixed Waste |
| LLRW | – | Low-Level Radioactive Waste |
| MDL | – | Method Detection Limit |
| MQL | – | Method Quantitation Limit |
| MSL | – | Mean Sea Level |
| NAPL | – | Non-Aqueous Phase Liquid |
| NOR | – | Notice of Registration |
| PCB | – | Polychlorinated Biphenyl |
| PCL | – | Protective Concentration Level |
| PMZ | – | Plume Management Zone |
| POC | – | Point of Compliance |

PERMIT/COMPLIANCE PLAN ACRONYMS

| | | |
|---|---|---|
| POE | – | Point of Exposure |
| ppm | – | Parts Per Million |
| ppmv | – | Parts Per Million by Volume |
| PQL | – | Practical Quantitation Limit |
| psi | – | Pounds Per Square Inch |
| QA/QC | – | Quality Assurance/Quality Control |
| RACR | – | Response Action Completion Report |
| RAER | – | Response Action Effectiveness Report |
| RAP | – | Response Action Plan (for Action Leakage Rate in landfills) |
| RAP | – | Remedial Action Plan |
| RCRA | – | Resource Conservation Recovery Act |
| RFA | – | RCRA Facility Assessment |
| RFI | – | RCRA Facility Investigation |
| RRR | – | TCEQ Risk Reduction Rules |
| RSA | – | Remedy Standard A |
| RSB | – | Remedy Standard B |
| SR/WM | – | Source Reduction and Waste Minimization |
| SSI | – | Statistically Significant Increase |
| SWDA | – | Solid Waste Disposal Act |
| SWMU | – | Solid Waste Management Unit(s) |
| TAC | – | Texas Administrative Code |
| TCEQ | – | Texas Commission on Environmental Quality |
| TCEQ QAPP | – | "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation Recovery Act and Underground Injection Control" |
| THC | – | Total Hydrocarbons |
| TRRP | – | Texas Risk Reduction Program |

# 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 storage and disposal facility located one mile north of Highway 176 and 0.25 miles 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' 32.79 ", West Longitude 103° 3' 16.31"). The legal description of the facility submitted in Permit No. 50397 application dated June 22, 2007, 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. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class $1^1$ modification to revise Section V., Engineering Report), August 1, 2012 (Class $1^1$ modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class $1^1$ modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class $1^1$ modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B to change the Alternate Emergency Coordinators List), January 27, 2016 (revise the Contingency Plan and Provision I. B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List ), May 10,

[I.B. Continued]

2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors), May 17, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), and October 11, 2016 (Class 1[1] modification to update the Waste Acceptance Plan (Revision 9) of the Waste Analysis Plan), December 8, 2016 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors) and, February 2, 2107(Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators Lists), 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:

1. Modification of Permitted Facilities

The facility units and operational methods authorized are limited to those described herein and by the application submittals identified in Provision I.B. 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.

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 the 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]

[II.A. Continued]

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 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. 50397 has been completed, and that

[II.A.6.a. Continued]

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. 50397."

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 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 fifteen (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.

* 7. Land Disposal Restrictions

The permittee shall comply with the land disposal restrictions as found in 40 Code of Federal Regulations (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

[II.A.8. Continued]

waste identified solely on the basis of ignitability) for dust suppression or road treatment.

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 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.

12. 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)]

B. Recordkeeping and Reporting Requirements

1. 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

[II.B.1.b. Continued]

an 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, Eighteenth Edition, 1992, and 18th Edition supplement, 1994, or current adopted edition; RCRA Ground-Water Monitoring: Draft Technical Guidance, 1992*, OSWER Directive 9950.1, or an equivalent method,+ as specified in the Waste Analysis Plan, Attachment IV.D. 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 three (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.

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

[II.B.3. Continued]

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 twenty-four (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 (5) 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 twenty-four (24) hours pursuant to 30 TAC Section 305.125(9) [30 TAC Section 305.145]:

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

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;

[II.B.5.b. Continued]

(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 (5) day written notice requirement specified in Provision II.B.4.b. in favor of a written report submitted to the Commission within fifteen (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 & 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 (5) year Source Reduction and Waste Minimization Plan and submit a Source Reduction and Waste Minimization (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

[II.B.9. Continued]

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 (15) 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 fifteen (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 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)]

C. Incorporated Regulatory Requirements

1. State Regulations

To the extent applicable to the activities authorized by this permit, the following TCEQ regulations are hereby made provisions and conditions of the permit. Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable sate statute and/or commission rules:

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;

[II.C.1. Continued]

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;

i. 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);

l. 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

[II.C.2. Continued]

To the extent applicable to the activities authorized by this permit, the following provisions of 40 CFR Parts 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;
f. Subpart H -- Financial Requirements;

g. Subpart I -- Use and Management of Containers;

h. Subpart N -- Landfills;

i. Subpart AA -- Air Emission Standards for Process Vents;

j. Subpart BB -- Air Emission Standards for Equipment Leaks;

k. Subpart CC -- Air Emission Standards for Tanks, Surface Impoundments, and Containers;

l. 40 CFR Part 268 -- Land Disposal Restrictions (LDR).

## 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).

[III. Continued]

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 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 twenty-five (25) feet, and shall state "Danger - Unauthorized Personnel Keep Out" in English and in Spanish.

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

   c. Discharge in accordance with a wastewater discharge permit.

[III. Continued]

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 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 Table III.E.3. - Emergency Equipment, 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.

e. The names, addresses, and phone numbers of all persons qualified to act as emergency coordinator in Table III.E.2 - Emergency Coordinators of the Part B application shall be supplied to the Executive Director at the time of certification required by Provision II.A.6., rather than at the time of application. [40 CFR 264.52(d)]

F. Special Permit Conditions

Not applicable

## 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 contained in Attachment IV. of the Part B application identified in Provision I.B.

[IV. Continued]

B. Authorized Wastes

1. The permittee is authorized to manage hazardous wastes listed in Table IV.B. - Wastes Managed in Permitted Units, subject to the limitations provided herein.

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

2. Hazardous Waste Received From Off-Site Sources

   When the permittee may receive 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 Table IV.B. shall not contain any of the following:

   a. PCB waste, as defined by the Environmental Protection Agency (EPA) in regulations issued pursuant to the Toxic Substances Control Act under 40 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/or 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 Section 336.203, no person shall dispose of radioactive material unless that person has a license from the TCEQ or an exemption from the Texas Department of State Health Services (TDSHS) under Texas Health and Safety Code, Section 401.106(a).

   c. Explosive material, as defined by the Department of Transportation under 49 CFR Part 173;

   d. Dioxin-containing wastes, identified by EPA as F020, F021, F022, F023, F026, and F027 wastes in 40 CFR 261.31;

   e. Ignitable compressed gases;

   f. Garbage as defined in 30 TAC Section 330.3(56);

   g. Municipal Solid Waste as defined in 30 TAC Section 330.3(88);

   h. Putrescible Waste as defined in 30 TAC Section 330.3(119); or

   i. Special Waste from Health-Care Related Facilities subject to 25 TAC Chapter 1 or 30 TAC Chapter 330.

[IV.B. Continued]

4. Prior to accepting any additional wastes not authorized in Table IV.B., the permittee shall follow the permit amendment or modification requirements listed in 30 TAC Sections 305.62 and 305.69.

5. 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.

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, American Society for Testing and Materials (ASTM) or other methods accepted by the TCEQ. The permittee shall have a Quality Assurance/Quality Control (QA/QC) program that is consistent with EPA SW-846 and the TCEQ QAPP.

3. In accordance with the sampling requirements set forth in the Waste Analysis Plan referenced in Provision IV.A., 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 or according to the Waste Analysis Plan to assure that free liquids are not placed in the landfill.

4. If the sampling required in Provision IV.C.3. indicates that a waste contains free liquids, the waste shall not be accepted for disposal.

5. In accordance with the sampling requirements set forth in the Waste Analysis Plan referenced in Provision IV.A., and 40 CFR Part 268, the permittee shall test a sufficient number of representative waste samples to assure that waste meets the LDR standards.

   Prior to first receipt of LDR wastes, the permittee shall perform corroborative sampling and analysis on the wastes, in accordance with the sampling

[IV.C.5. Continued]

requirements set forth in the Waste Analysis Plan referenced in Provision IV.A., 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, as applicable, 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. Records shall be maintained demonstrating compliance with the above requirements and shall be kept on site and available for review by TCEQ representatives.

## 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 disposal subject to the limitations herein. All waste management activities not otherwise exempted from permitting under 30 TAC Section 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 control system which will collect spills and precipitation in such a manner as to satisfy the following:

   a. 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 by 40 CFR 264.18(b)(1).

### B. Container Storage Areas

1. Container storage areas are shown in Table V.B. - Container Storage Areas. The

permittee is authorized to operate the facility container storage areas for storage subject to the limitations contained herein.

[V.B. Continued]

2. 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 Provision I.B. At a minimum, the containment system must meet the requirements of 40 CFR 264.175.

C. Tanks and Tank Systems

1. The permitted tank units and their approved waste types are shown in Table V.C.-Tanks and Tank Systems. 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 containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within twenty-four (24) hours.

5. The permittee shall report to the Executive Director within twenty-four (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 thirty (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

[V.C.6.c. Continued]

provided before the required thirty (30) day submittal period expires;

d. 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 (7) days of returning the tank system to use. [40 CFR 264.196(f)]

D. Surface Impoundments

Reserved

E. Waste Piles

Reserved

F. Land Treatment Units

Reserved

G. Landfills

1. The permittee may dispose of a total volume of 4,000,000 cubic yards of hazardous waste in one permitted landfill. The landfill cells shall meet the specifications listed in Table V.G.$_1$. Landfills. The permittee is authorized to operate the permitted landfill for waste disposal subject to the limitations contained herein.

2. Test Fill

a. Prior to construction of any new landfill or landfill cell with changes in the 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 testfill(s). 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 Control 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.

[V.G.2.a. Continued]

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 Provision II.A.6. 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 post construction 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 $1 \times 10^{-7}$ cm/sec or less;

(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 fill construction 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 Table V.G.3. - Landfill Liner System and Table V.G.4. - 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 moisture content) the maximum clod size of the soils

[V.G.3.b.(1) Continued]

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 inaccessible to a sheepsfoot roller, a tamping foot-type compactor, smooth-drum roller or vibrating-plate compactor having foot pressures of at least 250 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 2630 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 1000 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 650 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

[V.G.3.b.(8) Continued]

one (1) determination by appropriate surveying techniques per every 10,000 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 any geomembrane liner:

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

(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.

[V.G.3.c. Continued]

(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 experience in field seaming geomembrane liner using similar seaming methods.

(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 Provision V.C.3.c.(6). 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 34EF.

(12) Field seaming shall not be done if the ambient temperature is below 50EF, but greater than 34EF, 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,

[V.G.3.c.(14) Continued]

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 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 Provisions V.G.3.c.(15)., (16)., 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.

d. Leachate Collection/Leak Detection System

(1) Sieve analysis tests on nonsynthetic material at a minimum rate of one (1) test per 400 cubic yards.

(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 10,000 square feet of drainage layer installed.

(4) Drainage pipe slope determinations at a rate 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

[V.G.3.e. Continued]

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 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;

b. Upon compliance with Provision V.G.4.a., all subsequent waste, except containerized waste, shall be applied in lifts not greater than eighteen (18) inches and compacted sufficiently to minimize settlement of landfilled waste;

[V.G.4. Continued]

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 two feet of red bed clay soil when the wastes reach final grade elevation.

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, including water that drains into the landfill cell from interior access roads, 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 once each week during the active life and closure period of the landfill.

i. Liquids removed from the leachate collection/leak detection systems 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 Attachment V.G. of the permittee's approved permit application [30 TAC Section 335.173(j)];

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.;

l. Requirements for Ignitable, Reactive or Incompatible Wastes

The permittee shall manage ignitable, reactive incompatible wastes in

[V.G.4.l. Continued]

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.

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

n. Stabilization of Liquid Wastes

The permittee shall not place liquids or waste containing free liquids, whether or not sorbents have been added (except lab waste in overpacked containers, as described in 40 CFR 264.316) 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 32EF and ambient pressure.

An absorbent is defined as a material that is capable of physically holding a liquid within pores or interstices by such physical forces as tension or capillary action. An adsorbent is defined as a material that is capable of physically adhering a liquid to its (the material's) surface(s) through molecular polar forces. The terms "absorbent" and "adsorbent" shall both be indicated whenever the term "sorbent" is used in this permit;

o. Stabilization of LDR Wastes

Appropriate stabilization methods shall be used for waste streams requiring treatment to meet the 40 CFR Part 268 treatment standards.

Successful stabilization is said to be achieved if post-treatment analyses demonstrate that applicable treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268;

p. Special Requirements for Containers

[V.G.4.p. Continued]

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];

q. 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

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

r. 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;

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

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 daily flow 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.

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

[V.G.6. Continued]

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.

H. Incinerators

Reserved

I. Boilers/Industrial Furnaces

Reserved

J. Drip Pads

Reserved

K. Miscellaneous Units

Reserved

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 A225-foot zone@ of the Triassic Dockum Group of the Chinle Formation. In addition, observation wells will monitor the locally named A125-foot zone@ of the Dockum Group. The Detection Monitoring System shall yield groundwater samples from the uppermost aquifer that represent the quality of background water and the quality of ground water at the point of compliance.

1. Identification of Detection Monitoring Program Unit(s)/Area(s)

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

2. Capabilities of Detection Monitoring Systems

[VI.A.2. Continued]

The Detection Monitoring System shall yield groundwater samples from the uppermost aquifer/water-bearing zone that represent the quality of background water that has not been affected by operation of the regulated unit(s) 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 (or permitted unit) 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/area are listed in Table VI.B.3.b - Unit Groundwater Detection Monitoring System.

a. A Detection Monitoring System shall, at a minimum, consist of two categories of wells, Background and Point of Compliance Wells, which will be used to establish groundwater quality for each RCRA-regulated unit.

(1) Background Well(s) are those wells that are unaffected by the operations of the unit. The Background Well(s) are depicted in Attachment E (Groundwater Monitoring Well Location Map) and are also listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System.

(2) Point of Compliance (POC) Wells are used to demonstrate compliance with the Detection Monitoring Parameters which are listed on Table VI.B.3.c. - Groundwater Detection Monitoring Parameters. POC Wells are designated in Attachment E (Groundwater Monitoring Well Location Map) and are also listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System.

(3) The Detection Monitoring System may also include Observation Wells, as necessary, to establish groundwater quality and hydrogeologic conditions of the uppermost aquifer/water-bearing zone and any other water-bearing zones.

b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care

[VI.A.4.b. Continued]

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, Section VI.B., which is incorporated into this permit through Permit Provision I.B.

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.

b. The permittee shall install the wells of the Detection and Observation 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 Observation Monitoring Wells shall be 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

[VI.B.3. Continued]

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 Table VI.B.3.b. - Unit Groundwater Detection Monitoring System is plugged and abandoned

and a replacement well is not installed in accordance with this permit, then a modification request shall be submitted in accordance with 30 TAC Section 305.69 within ninety (90) days of the plugging and abandonment procedure to update Table VI.B.3.b. - Unit Groundwater Detection Monitoring System 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 A225-foot zone@ of the Triassic Dockum Group of the Chinle Formation. The A225 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

[VI.C.1. Continued]

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 A125-foot zone@ of the Dockum Group shall be monitored in accordance with provision VI.A.4.a.(3).

2. Groundwater Detection Monitoring Parameters and Compliance

a. The permittee shall monitor well numbers identified in Provision VI.A.4. and Table VI.B.3.b. - Unit Groundwater Detection Monitoring System. The uppermost aquifer's groundwater quality will be evaluated based on the parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters. Sampling and analysis for the Groundwater Detection Monitoring Parameters of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters shall be conducted in accordance with Provision II.B.1.b. 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 Table VI.B.3.c. - Groundwater Detection Monitoring Parameters for each sample collected.

c. Compliance with the Groundwater Detection Monitoring Parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters is defined by the results of the data evaluation of Provision VI.D.4. wherein the groundwater monitoring data for each well does not exhibit evidence of contamination over backgroundvalues. If any POC Well is determined to be noncompliant with Table VI.B.3.c. - Groundwater Detection Monitoring Parameters 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 area(s) listed in Provision VI.A.1. shall remain in the Detection Monitoring Program during the active life of the unit(s) 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 Table VI.B.3.c. - Groundwater Detection Monitoring Parameters has not been confirmed in the ground water, then the permittee shall notify the Executive Director in writing at least thirty (30) days prior to discontinuing the Detection Monitoring Program for the specified unit. Within ninety (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 Provision VI.G.

[VI.C. Continued]

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 Table VI.B.3.c. - Groundwater Detection Monitoring Parameter 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 Table VI.B.3.c. - Groundwater Detection Monitoring Parameters 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 RCRA Groundwater Monitoring Draft Technical Guidance Document (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 Custody and handling procedure), analyzed, and statistically evaluated (i.e., QA/QC) in accordance with the current edition of EPA SW-846 and 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 EPA SW-846 and ASTM Standard Test Methods or other equivalent methods accepted in writing by the Executive Director.

b. 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 Attachment VI. of the approved Part B Permit Application, 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.

[VI.D. Continued]

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 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 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 Table VI.B.3.b. - Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to the schedule listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters.

c. The observation wells referenced in Provision VI.A.4.a.3. and listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to the Groundwater Sampling and Analysis Plan in Volume 7, Attachment 6-8 of the Permit. If sufficient volume is available, the permittee shall determine evidence of an SSI according to Provision VI.D.3.

e. Field determination requirements for wells listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System consist of the following measurements or observations which shall be established during each sampling event:

(1) Water level measurements relative to MSL measured to within 0.01 foot.

[VI.D.2.e. Continued]

(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. 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 three (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 SSI in the concentrations of each Groundwater Detection Monitoring Parameter of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters when compared to the Background Well groundwater quality data. In determining whether or not an SSI has occurred for a Groundwater Detection Monitoring Parameter of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters, the permittee shall establish if the background values have been exceeded by utilizing the statistical procedures and data evaluation described in the following guidance:

(1) Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Interim Final Guidance, U.S. EPA, April 1989; and

(2) Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance, U.S. EPA, June 1992.

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 No. 3.

[VI.D.3.b. Continued]

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.

In addition to the statistical evaluation procedures established above, the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in Table VI.B.3.c. B Groundwater Detection Monitoring Parameters. This data evaluation shall consist of a Mann Kendall Trend Analysis of each of the metal parameter concentrations in each well over time. If a measured value exceeds the limit of the trend analysis, 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.

4. Data Evaluation

a. 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 sixty (60) day time limit to conduct data evaluation cannot be met.

b. Data evaluation shall determine whether there is evidence of an SSI for Groundwater Detection Monitoring Parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters each time groundwater quality is determined at the POC in accordance with 30 TAC Section 335.163(7).

E. Response Requirements for SSI

1. If the permittee has determined an SSI over background values for any of the Groundwater Monitoring Parameters identified in Table VI.B.3.c. - Groundwater

[VI.E.1. Continued]

Detection Monitoring Parameters in accordance with statistical procedures authorized by Provision VI.D.3. 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 Table VI.B.3.c. - Groundwater Detection Monitoring Parameters has exhibited an SSI.

b. Immediately sample the ground water in all wells of Table VI.B.3.b. - Unit Groundwater Detection Monitoring System 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 Provision VI.E.1.b., 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 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 Provision VI.E.1.b., 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(s), 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(s). 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.

[VI.E.1.d. Continued]

(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:

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.

d. 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

[VI.G.1. Continued]

during the previous calendar year period and the status of any SSI events.

2. The permittee shall include 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, graphs and drawings.

3. The groundwater flow rate and direction in the uppermost aquifer. The groundwater flow rate and direction of ground water flow shall be established using 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 of ground water flow.

4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurement in all monitoring wells. 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

1. The permittee shall enter all monitoring, testing, analytical, statistical test computation data 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 complete the installation of all wells required by Table VI.B.3.b. - Unit Groundwater Detection Monitoring System 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

1. 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 Provision I.B. except as modified by this permit.

In addition, facility closure shall commence:

[VII.A.1. Continued]

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 Provision VII.B.1.

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, in accordance with 40 CFR 264.112 (c). The written request shall include a copy of the amended Closure Plan 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

sixty (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 forty-five (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 forty-five (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.

6. As per the requirements of 40 CFR 264.115, within sixty (60) days of completion

[VII.A.6. Continued]

of closure of each permitted hazardous waste surface impoundment, or landfill unit, and within sixty (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 30 TAC 350.32 (Texas Risk Reduction Program (TRRP) Remedy Standard A) and 30 TAC Section 350.33 (TRRP, Remedy Standard B) and 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 sixty (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 contained in 40 CFR 268.49 or removed and managed at an authorized industrial solid waste management facility.

11. All hard-surfaced areas within the hazardous waste management unit areas shall

[VII.A.11. Continued]

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. 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. In addition, the permittee shall perform visual inspections of the equipment/structures for visible evidence of contamination.

13. 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 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 $54,684,141 (2012 dollars) as shown on Table VII.E.$_1$. - Permitted Unit Closure Cost Summary. 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:

At least sixty (60) days prior to acceptance of waste in proposed permitted units listed in Table VII.E.$_1$. - Permitted Unit Closure Cost Summary, the permittee shall provide the amount of financial assurance required for closure by the amounts listed in Table VII.E.$_1$, and shall submit financial assurance documentation.

b. Annual Inflation Adjustments

[VII.B.1.b. Continued]

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.

3. The financial assurance for any closure or post-closure care activity required under this permit may be satisfied, in whole or in part, by the maintenance of financial assurance for that activity pursuant to the requirements of other permits and/or licenses issued by the TCEQ, upon demonstration of equivalency to the Executive Director by the Permittee. To demonstrate equivalency of financial assurance between this permit and any other permit or license, the permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved financial assurance, in accordance with 30 TAC Section 305.69.

C. Storage and Processing Unit Closure Requirements

The permittee shall close the storage and processing units identified as TCEQ Permit Unit Nos. 1, 2 and 4 through 15 in accordance with the approved Closure Plans, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), and the Texas Risk Reduction Program of 30 TAC Chapter 350.

D. Surface Impoundment Closure Requirements

Reserved

E. Landfill Closure and Certification Requirements

The permittee shall close the landfill identified as TCEQ Permit Unit No. 3 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 3 foot thick layer of compacted clay meeting the construction, material and compaction specifications of Provision V.G.3.b. 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 60 mil HDPE geomembrane 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.

[VII.E.1. Continued]

c. A drainage layer consisting of a minimum 10 oz. geotextile overlying a 200-mil geonet shall be installed over the geomembrane. The geo-textile filter fabric shall be overlain by two feet of clean granular sand exhibiting a hydraulic conductivity of greater than $1 \times 10^{-2}$ cm/sec.

d. A layer of compacted redbed clay not less than eighteen (18) inches thick shall be placed over the sand layer. The redbed layer shall be compacted to 95% of standard proctor.

e. A minimum 3 foot thick intruder barrier composed of caliche rock and fines shall be placed over the redbed clay. The barrier layer shall contain both fines, and caliche gravel from 4 to 12 inches in diameter.

f. A minimum 4 foot thick evapotransporation cover shall be installed over the intruder barrier. The evapotransporation cover shall consist of a 1 foot thick graded gravelly sand overlain by a 2 foot thick native fine material overlain by a 1 foot thick topsoil. The topsoil shall be seeded with a mixture of persistent native grasses to establish a self-sustaining vegetative cover.

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 (6) months after closure.

g. Within sixty (60) days of certification of closure of the landfill, the permittee shall submit to the Executive Director documentation demonstrating compliance with 40 CFR 264.119, pertaining to deed recordation.

h. Within sixty (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., 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 RACR, as applicable.

2. After completion of the final cover for a landfill cell, the permittee shall submit certification of proper construction of the cap in accordance with Provision II.A.6. 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

[VII.E.2. Continued]

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 thirty (30) years after certification of closure of each respective unit. The post-closure period for each closed unit is specified in Table VII.G - Post-Closure Period. Post-closure care shall be performed in accordance with the Post-Closure Plans referenced in Provision I.B., 40 CFR 264.117, and the following requirements:

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

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

3. Maintain a self-sustaining vegetative cover on the capped areas by periodic seeding, fertilizing, irrigation, and/or mowing.

4. Maintain all benchmarks at the facility.

5. 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.

[VII.G. Continued]

9. Perform all ground-water monitoring and related activities specified in Provision VI.A.1. of the permit.

10. The permittee shall collect and remove pumpable liquids in the leak detection system sumps to minimize the head on the bottom of the liner.

11. All liquids removed from the leak detection systems shall be managed as hazardous waste.

12. The permittee shall maintain a record of the amount of liquids removed from each leak detection system sump at least monthly during the post-closure period.

13. The permittee may record the amount of liquids removed from 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 (2) consecutive months or quarters, respectively.

14. 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 (2) consecutive months.

15. The permittee shall determine if the action leakage rate has been exceeded by converting the monthly flow rate from the monitoring data obtained under Provision VII.G.12. 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.

16. 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

[VII.G.16. Continued]

g. Within thirty (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.16.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.

17. To make the leak and/or remediation determinations in Provisions VII.G.17.c., d., and f., 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.

18. 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).

19. Post-Closure Notice and Certification Requirements

No later than sixty (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

[VII.G.19. Continued]

assurance requirements for post-closure under 40 CFR 264.145 (i).

H. Financial Assurance for Post-Closure

1. The permittee shall provide financial assurance for post-closure care of all existing units required by this permit in an amount not less than $50,713,170 (2007 dollars) as shown on Table VII.E.2. - Permitted Unit Post Closure Cost

Summary. Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P and 30 TAC 335.152.

a. Adjustment to Financial Assurance Amount

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

b. Inflation Factor Correction

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 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 Section 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 Section 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,

[VIII.A.3. Continued]

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 Section37.71, regarding bankruptcy, whenever necessary.

## IX. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

A. Notification of Release From Solid Waste Management Unit
(Texas Health and Safety Code, Section 361.303)

If a solid waste management unit (SWMU) or area of contamination, or any release of hazardous waste or hazardous constituents that may have occurred from any SWMU and/or Area of Concern (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 EPA's 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 Provision IX.B. 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 Appendix VIII 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 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 RAP to protect human health and the environment. Upon completion of the RAP implementation the permittee must submit to the TCEQ, 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 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);

[IX.B. Continued]

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

Reserved

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 Provision IX.E. 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 AOC 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 AOC 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 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

Upon approval of the activities outlined in the APAR, if it is determined that there has

[IX.F. Continued]

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.

1. Response Action Completion Report (RACR)

The permittee shall submit a RAP within the time frame required by the Executive Director, not to exceed 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 a 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.

G. Compliance Plan

Reserved

## 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.

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

[X.A.2.a. Continued]

335.152(a)(18)/40 CFR Part 264 Subpart BB, as applicable.

c. 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.

3. Requirements for Subpart CC

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

## XI. COMPLIANCE PLAN

Reserved

## TABLE III.D. - INSPECTION SCHEDULE

| *Facility Unit(s) and Basic Elements* | *Possible Error, Malfunction, or Deterioration* | *Frequency of Inspection* |
|---|---|---|
| **GENERAL INSPECTION (ACTIVE FACILITY) – SECURITY DEVICES** | | |
| Perimeter Fence | • Check for breaches and damage | Monthly |
| Gates | • Check for damage<br>• Check for proper operation<br>• Check for presence and function of locking mechanism | Weekly |
| Perimeter Warning Signs | • Check for presence and legibility of warning signs | Monthly |
| Exterior Lighting | • Check for proper function | Weekly |
| **GENERAL INSPECTION (POST-CLOSURE) – SECURITY DEVICES** | | |
| Perimeter Fence | • Check for breaches and damage | Semiannually |
| Gates | • Check for damage<br>• Check for proper operation<br>• Check for presence and function of locking mechanism | Semiannually |
| Perimeter Warning Signs | • Check for presence and legibility of warning signs | Semiannually |
| **GENERAL INSPECTION (ACTIVE FACILITY) – ENVIRONMENTAL MONITORING SYSTEMS** | | |
| Groundwater Monitoring Wells | • Check integrity of pad and subgrade<br>• Check protective casing<br>• Presence of label<br>• Presence/proper function of cap and lock<br>• Evidence of damage or instability<br>• Check well casing<br>• Presence of cap<br>• Evidence of damage or instability | Semiannually |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| ***Facility Unit(s) and Basic Elements*** | ***Possible Error, Malfunction, or Deterioration*** | ***Frequency of Inspection*** |
|---|---|---|
| **GENERAL INSPECTION (POST-CLOSURE) – ENVIRONMENTAL MONITORING SYSTEMS** | | |
| Groundwater Monitoring Wells | • Check integrity of pad and subgrade<br>• Check protective casing<br>• Presence of label<br>• Presence/proper function of cap and lock<br>• Evidence of damage or instability<br>• Check well casing<br>• Presence of cap<br>• Evidence of damage or instability | Semiannually |
| **GENERAL INSPECTION (ACTIVE FACILITY) – SAFETY AND EMERGENCY EQUIPMENT** | | |
| Protective Clothing Designated for Emergency Use | ☐ Check for adequate supply<br>☐ Check accessibility<br>☐ Check for deterioration/damage | Monthly or after each use |
| Breathing Apparatus | ☐ Check for adequate supply<br>☐ Check accessibility<br>☐ Check for deterioration/damage<br>☐ Check for function | Monthly or after each use |
| First Aid Kits | ☐ Check for adequate supply<br>☐ Check accessibility | Monthly or after each use |
| Emergency Showers and Eye Wash Stations | ☐ Check that units activate and shut off properly<br>☐ Check water pressure<br>☐ Check accessibility | Monthly |
| Alarm Systems | ☐ Check accessibility<br>☐ Activate alarm (power/battery failure/function) | Monthly |
| Internal (2-way radio) and External (phone) Communications Systems | ☐ Check accessibility<br>☐ Check operation | Monthly |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| ***Facility Unit(s) and Basic Elements*** | ***Possible Error, Malfunction, or Deterioration*** | ***Frequency of Inspection*** |
|---|---|---|
| Fire Extinguishers | ☐ Check pressure gauge for full charge indication<br>☐ Check inspection tag to ensure annual maintenance by qualified inspection service is up-to-date<br>☐ Check seal to ensure that no one has used extinguisher<br>☐ Check accessibility | Monthly or after each use |
| Spill Control Supplies (shovels, brooms, booms, etc.) and Kits | ☐ Check for adequate supply<br>☐ Check accessibility<br>☐ Check for deterioration/damage | Monthly or after each use |
| Absorbent Supply | ☐ Check for adequate supply | Monthly or after each use |
| Empty Containers and Canisters | ☐ Check for adequate supply | Monthly |
| Other Safety and Emergency Equipment | ☐ Check for adequate supply<br>☐ Check accessibility<br>☐ Check for deterioration/damage<br>☐ Check proper operation | Monthly |
| Emergency Information List | ☐ Check current information<br>☐ Check for posting at each phone | Monthly |
| Facility Warning Signs (No Smoking, Authorized Personnel Only, etc.) | ☐ Check for presence and legibility | Monthly |
| **RECEIVING AND ADMINISTRATIVE AREA (ACTIVE FACILITY)** | | |
| Truck Scales | ☐ Check for evidence of spills, leaks, or other releases | Daily when in use |
| Receiving and Demurrage Areas | ☐ Check for evidence of spills, leaks, or other releases<br>☐ Check for secure tarps, lids or other closure devices<br>☐ Check for storm water on tarps<br>• Check for transport truck leaks or other damage that could impede area operations (e.g., flat tires) | Daily when in use |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| *Facility Unit(s) and Basic Elements* | *Possible Error, Malfunction, or Deterioration* | *Frequency of Inspection* |
|---|---|---|
| **STAGING AND DECONTAMINATION BUILDINGS (ACTIVE FACILITY)** | | |
| Bulk Container Staging Building and Waste Staging Building | • Check for evidence of spills, leaks, or other releases<br>• Check for secure lids or other closure devices<br>• Check for integrity of floor, curbing, and sump<br>• Check for adequacy of aisle space for container inspection and equipment movement<br>• Check for liquids or other materials within containment | Daily when in use |
| Decontamination Building | • Check for evidence of spills, leaks, or other releases<br>• Check for integrity of floor, curbing, and sump<br>• Check for liquids or other materials within containment | Daily when in use |
| **FWF CONTACT WATER AND FWF WASTEWATER TREATMENT PLANT TANK SYSTEMS (ACTIVE FACILITY)** | | |
| Contact Water Tank Systems (5)<br>WWTP Tank System (8) | • Check for evidence of spills, leaks, or other releases<br>• Check for corrosion or other visible deterioration of tank shells<br>• Check liquid level in each tank<br>• Check condition of tank coating or paint | Once each operating day<br>Once each operating day<br>Once each operating day<br>Once each operating day |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| ***Facility Unit(s) and Basic Elements*** | ***Possible Error, Malfunction, or Deterioration*** | ***Frequency of Inspection*** |
|---|---|---|
| Pumps, Piping, Valves and Other Ancillary Components | • Check for evidence of spills, leaks, or other releases<br>• Check that loading/unloading lines are properly capped when not in use<br>• Check that valves that would allow direct, gravity drainage of tanks are closed and secured<br>• Check for corrosion or other visible deterioration of equipment and evidence of excessive wear<br>• Check condition of coatings or paints | Once each operating day<br>Once each operating day<br>Once each operating day<br>Once each operating day<br>Weekly |
| Double walled conveyance pipe to surface impoundment | • Check for evidence of spills, leaks, or other releases | Weekly |
| Secondary Containment Structure | • Check for integrity of containment floor, walls, and sump<br>• Check for liquids or other materials within containment or sump | Once each operating day<br>Once each operating day |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| **LANDFILL INSPECTION (ACTIVE FACILITY)** | | |
|---|---|---|
| Run-On And Run-Off Control Systems | ☐ Check run-on diversion berms for erosion and ditches for siltation and debris<br>☐ Check landfill cells for accumulation of storm water<br>▪ Check intercell berms for integrity | Weekly and after storm events |
| Cover Systems | ☐ Check interim cover for erosion, deterioration, or dust dispersal<br>☐ Check final cover for erosion, deterioration, and condition of vegetative cover | Weekly and after storm events |
| Wind Dispersal Control | ☐ Check for evidence of waste or dust dispersal | Weekly |
| Leachate Collection System | ☐ Check for presence and level of liquid in risers<br>☐ Check condition of risers<br>☐ Check pump and level alarm function<br>☐ Check integrity of temporary accumulation vessel(s) | At least weekly and after storm events |

| ***Facility Unit(s) and Basic Elements*** | ***Possible Error, Malfunction, or Deterioration*** | ***Frequency of Inspection*** |
|---|---|---|
| Leak Detection System | ☐ Check for presence and level of liquid in risers<br>☐ Check condition of risers<br>☐ Check pump function<br>☐ Check integrity of temporary accumulation containers | At least weekly |
| **LANDFILL INSPECTION – (POST-CLOSURE)** | | |
| 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<br>☐ Check condition of risers | At least monthly |
| Leak Detection System | ☐ Check for presence and level of liquid in risers<br>☐ Check condition of risers | In accordance with 40 CFR §264.303(c)(2)[1] |

**TABLE III.D. - INSPECTION SCHEDULE**
**(Continued)**

| *Facility Unit(s) and Basic Elements* | *Possible Error, Malfunction, or Deterioration* | *Frequency of Inspection* |
|---|---|---|
| Benchmarks | ☐ Check for damage | Semiannually and during any general inspection |
| | ☐ Check for validity | Every 5 years |

[1]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 until the liquid level again stays below the pump operating level for two consecutive months.

## TABLE III.E.3. - EMERGENCY EQUIPMENT

| *Equipment* | *Location* | *Physical Description* | *Capabilities* |
|---|---|---|---|
| Protective Clothing | Various locations throughout the facility | Personal Protective Equipment appropriate for the conditions | Protection in hazardous environments |
| 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 |
| Emergency Lighting | Various locations throughout the facility, when needed | Battery generator backup lighting | Illumination in an 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 systems/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 and 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 Trailer | Fuel-powered, portable generator | Back-up power supply |

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS

| *No.* | *Waste* | *EPA Hazardous Waste Numbers*[1,2,3] | *TCEQ Waste Form Codes and Classification Codes*[1] |
|---|---|---|---|
| 1 | Mixed Waste Generated Off-Site Suitable for Disposal (consists of mixed waste meeting disposal criteria)[2] | D001 D002 D003[4] D004 D005 D006 D007 D008 D009 D010<br>D011 D012 D013 D014 D015 D016 D017 D018 D019 D020<br>D021 D022 D023 D024 D025 D026 D027 D028 D029 D030<br>D031 D032 D033 D034 D035 D036 D037 D038 D039 D040<br>D041 D042 D043 F001 F002 F003 F004 F005 F006 F007<br>F008 F009 F010 F011 F012 F019 F024 F025 F028 F032<br>F034 F035 F037 F038 F039 K001 K002 K003 K004 K005<br>K006 K007 K008 K009 K010 K011 K013 K014 K015 K016<br>K017 K018 K019 K020 K021 K022 K023 K024 K025 K026<br>K027 K028 K029 K030 K031 K032 K033 K034 K035 K036<br>K037 K038 K039 K040 K041 K042 K043 K044[4] K045[4] K046<br>K047[4] K048 K049 K050 K051 K052 K060 K061 K062 K069<br>K071 K073 K083 K084 K085 K086 K087 K088 K093 K094<br>K095 K096 K097 K098 K099 K100 K101 K102 K103 K104<br>K105 K106 K107 K108 K109 K110 K111 K112 K113 K114<br>K115 K116 K117 K118 K123 K124 K125 K126 K131 K132<br>K136 K141 K142 K143 K144 K145 K147 K148 K149 K150<br>K151 K156 K157 K158 K159 K161 K169 K170 K171 K172<br>K174 K178 P001 P002 P003 P004 P005 P006 P007 P008<br>P009[4] P010 P011 P012 P013 P014 P015 P016 P017 P018<br>P020 P021 P022 P023 P024 P026 P027 P028 P029 P030<br>P031 P033 P034 P036 P037 P038 P039 P040 P041 P042<br>P043 P044 P045 P046 P047 P048 P049 P050 P051 P054<br>P056 P057 P058 P059 P060 P062 P063 P064 P065 P066<br>P067 P068 P069 P070 P071 P072 P073 P074 P075 P076[5]<br>P077 P078[5] P081[4] P082 P084 P085 P087 P088 P089 P092<br>P093 P094 P095 P096 P097 P098 P099 P101 P102 P103<br>P104 P105 P106 P108 P109 P110 P111 P112[4] P113 P114<br>P115 P116 P118 P119 P120 P121 P122 P123 P127 P128<br>P185 P188 P189 P190 P191 P192 P194 P196 P197 P198<br>P199 P201 P202 P203 P204 P205 U001 U002 U003 U004<br>U005 U006 U007 U008 U009 U010 U011 U012 U014 U015<br>U016 U017 U018 U019 U020 U021 U022 U023 U024 U025<br>U026 U027 U028 U029 U030 U031 U032 U033 U034 U035<br>U036 U037 U038 U039 U041 U042 U043 U044 U045 U046<br>U047 U048 U049 U050 U051 U052 U053 U055 U056 U057<br>U058 U059 U060 U061 U062 U063 U064 U066 U067 U068<br>U069 U070 U071 U072 U073 U074 U075 U076 U077 U078<br>U079 U080 U081 U082 U083 U084 U085 U086 U087 U088<br>U089 U090 U091 U092 U093 U094 U095 U096[4] U097 U098<br>U099 U101 U102 U103 U105 U106 U107 U108 U109 U110<br>U111 U112 U113 U114 U115 U116 U117 U118 U119 U120<br>U121 U122 U123 U124 U125 U126 U127 U128 U129 U130<br>U131 U132 U133[4] U134 U135 U136 U137 U138 U140 U141<br>U142 U143 U144 U145 U146 U147 U148 U149 U150 U151<br>U152 U153 U154 U155 U156 U157 U158 U159 U160[4] U161<br>U162 U163 U164 U165 U166 U167 U168 U169 U170 U171<br>U172 U173 U174 U175 U176 U177 U178 U179 U180 U181<br>U182 U183 U184 U185 U186 U187 U188 U189 U190 U191<br>U192 U193 U194 U196 U197 U200 U201 U202 U203 U204<br>U205 U206 U207 U208 U209 U210 U211 U213 U214 U215<br>U216 U217 U218 U219 U220 U221 U222 U223 U225 U226<br>U227 U228 U234[4] U235 U236 U237 U238 U239 U240 U243<br>U244 U246 U247 U248 U249 U271 U277 U278 U279 U280<br>U328 U353 U359 U364 U367 U372 U373 U387 U389 U394<br>U395 U404 U409 U410 U411 | Classification Codes: H, 1, and 2<br>Form Codes:<br>Lab Packs: (001, 002, 003, 004, 009);<br>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);<br>Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499) |

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS - continued

| *No.* | *Waste* | *EPA Hazardous Waste Numbers*[1,2,3] | *TCEQ Waste Form Codes and Classification Codes*[1] |
|---|---|---|---|
| 2 | Site-Generated Mixed Waste Suitable for Onsite Disposal (consists of mixed waste meeting disposal criteria)[6] | F001 F002 F003 F004 F005 F006 F007 F008 F009<br>F010 F011 F012 F019 F024 F025 F028 F032 F034 F035<br>F037 F038 F039 K001 K002 K003 K004 K005 K006 K007<br>K008 K009 K010 K011 K013 K014 K015 K016 K017 K018<br>K019 K020 K021 K022 K023 K024 K025 K026 K027 K028<br>K029 K030 K031 K032 K033 K034 K035 K036 K037 K038<br>K039 K040 K041 K042 K043 K044[4] K045[4] K046 K047[4] K048<br>K049 K050 K051 K052 K060 K061 K062 K069 K071 K073<br>K083 K084 K085 K086 K087 K088 K093 K094 K095 K096<br>K097 K098 K099 K100 K101 K102 K103 K104 K105 K106<br>K107 K108 K109 K110 K111 K112 K113 K114 K115 K116<br>K117 K118 K123 K124 K125 K126 K131 K132 K136 K141<br>K142 K143 K144 K145 K147 K148 K149 K150 K151 K156<br>K157 K158 K159 K161 K169 K170 K171 K172 K174 K178<br>P001 P002 P003 P004 P005 P006 P007 P008 P009[4] P010<br>P011 P012 P013 P014 P015 P016 P017 P018 P020 P021<br>P022 P023 P024 P026 P027 P028 P029 P030 P031 P033<br>P034 P036 P037 P038 P039 P040 P041 P042 P043 P044<br>P045 P046 P047 P048 P049 P050 P051 P054 P056 P057<br>P058 P059 P060 P062 P063 P064 P065 P066 P067 P068<br>P069 P070 P071 P072 P073 P074 P075 P076[5] P077 P078[5]<br>P081[4] P082 P084 P085 P087 P088 P089 P092 P093 P094<br>P095 P096 P097 P098 P099 P101 P102 P103 P104 P105<br>P106 P108 P109 P110 P111 P112[4] P113 P114 P115 P116<br>P118 P119 P120 P121 P122 P123 P127 P128 P185 P188<br>P189 P190 P191 P192 P194 P196 P197 P198 P199 P201<br>P202 P203 P204 P205 U001 U002 U003 U004 U005 U006<br>U007 U008 U009 U010 U011 U012 U014 U015 U016 U017<br>U018 U019 U020 U021 U022 U023 U024 U025 U026 U027<br>U028 U029 U030 U031 U032 U033 U034 U035 U036 U037<br>U038 U039 U041 U042 U043 U044 U045 U046 U047 U048<br>U049 U050 U051 U052 U053 U055 U056 U057 U058 U059<br>U060 U061 U062 U063 U064 U066 U067 U068 U069 U070<br>U071 U072 U073 U074 U075 U076 U077 U078 U079 U080<br>U081 U082 U083 U084 U085 U086 U087 U088 U089 U090<br>U091 U092 U093 U094 U095 U096[4] U097 U098 U099 U101<br>U102 U103 U105 U106 U107 U108 U109 U110 U111 U112<br>U113 U114 U115 U116 U117 U118 U119 U120 U121 U122<br>U123 U124 U125 U126 U127 U128 U129 U130 U131 U132<br>U133[4] U134 U135 U136 U137 U138 U140 U141 U142 U143<br>U144 U145 U146 U147 U148 U149 U150 U151 U152 U153<br>U154 U155 U156 U157 U158 U159 U160[4] U161 U162 U163<br>U164 U165 U166 U167 U168 U169 U170 U171 U172 U173<br>U174 U175 U176 U177 U178 U179 U180 U181 U182 U183<br>U184 U185 U186 U187 U188 U189 U190 U191 U192 U193<br>U194 U196 U197 U200 U201 U202 U203 U204 U205 U206<br>U207 U208 U209 U210 U211 U213 U214 U215 U216 U217<br>U218 U219 U220 U221 U222 U223 U225 U226 U227 U228<br>U234[4] U235 U236 U237 U238 U239 U240 U243 U244 U246<br>U247 U248 U249 U271 U277 U278 U279 U280 U328 U353<br>U359 U364 U367 U372 U373 U387 U389 U394 U395 U404<br>U409 U410 U411 | Classification Codes: H, 1, and 2<br>Form Codes:<br>Lab Packs: (001, 002, 003, 004, 009);<br>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);<br>Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499) |

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS - continued

| *No.* | *Waste* | *EPA Hazardous Waste Numbers*[1,2,3] | *TCEQ Waste Form Codes and Classification Codes*[1] |
|---|---|---|---|
| 3 | Site-Generated Mixed Waste Not Suitable for Onsite Disposal [6] | F001 F002 F003 F004 F005 F006 F007 F008 F009<br>F010 F011 F012 F019 F024 F025 F028 F032 F034 F035<br>F037 F038 F039 K001 K002 K003 K004 K005 K006 K007<br>K008 K009 K010 K011 K013 K014 K015 K016 K017 K018<br>K019 K020 K021 K022 K023 K024 K025 K026 K027 K028<br>K029 K030 K031 K032 K033 K034 K035 K036 K037 K038<br>K039 K040 K041 K042 K043 K044[4] K045[4] K046 K047[4] K048<br>K049 K050 K051 K052 K060 K061 K062 K069 K071 K073<br>K083 K084 K085 K086 K087 K088 K093 K094 K095 K096<br>K097 K098 K099 K100 K101 K102 K103 K104 K105 K106<br>K107 K108 K109 K110 K111 K112 K113 K114 K115 K116<br>K117 K118 K123 K124 K125 K126 K131 K132 K136 K141<br>K142 K143 K144 K145 K147 K148 K149 K150 K151 K156<br>K157 K158 K159 K161 K169 K170 K171 K172 K174 K178<br>P001 P002 P003 P004 P005 P006 P007 P008 P009[4] P010<br>P011 P012 P013 P014 P015 P016 P017 P018 P020 P021<br>P022 P023 P024 P026 P027 P028 P029 P030 P031 P033<br>P034 P036 P037 P038 P039 P040 P041 P042 P043 P044<br>P045 P046 P047 P048 P049 P050 P051 P054 P056 P057<br>P058 P059 P060 P062 P063 P064 P065 P066 P067 P068<br>P069 P070 P071 P072 P073 P074 P075 P076[5] P077 P078[5]<br>P081[4] P082 P084 P085 P087 P088 P089 P092 P093 P094<br>P095 P096 P097 P098 P099 P101 P102 P103 P104 P105<br>P106 P108 P109 P110 P111 P112[4] P113 P114 P115 P116<br>P118 P119 P120 P121 P122 P123 P127 P128 P185 P188<br>P189 P190 P191 P192 P194 P196 P197 P198 P199 P201<br>P202 P203 P204 P205 U001 U002 U003 U004 U005 U006<br>U007 U008 U009 U010 U011 U012 U014 U015 U016 U017<br>U018 U019 U020 U021 U022 U023 U024 U025 U026 U027<br>U028 U029 U030 U031 U032 U033 U034 U035 U036 U037<br>U038 U039 U041 U042 U043 U044 U045 U046 U047 U048<br>U049 U050 U051 U052 U053 U055 U056 U057 U058 U059<br>U060 U061 U062 U063 U064 U066 U067 U068 U069 U070<br>U071 U072 U073 U074 U075 U076 U077 U078 U079 U080<br>U081 U082 U083 U084 U085 U086 U087 U088 U089 U090<br>U091 U092 U093 U094 U095 U096[4] U097 U098 U099 U101<br>U102 U103 U105 U106 U107 U108 U109 U110 U111 U112<br>U113 U114 U115 U116 U117 U118 U119 U120 U121 U122<br>U123 U124 U125 U126 U127 U128 U129 U130 U131 U132<br>U133[4] U134 U135 U136 U137 U138 U140 U141 U142 U143<br>U144 U145 U146 U147 U148 U149 U150 U151 U152 U153<br>U154 U155 U156 U157 U158 U159 U160[4] U161 U162 U163<br>U164 U165 U166 U167 U168 U169 U170 U171 U172 U173<br>U174 U175 U176 U177 U178 U179 U180 U181 U182 U183<br>U184 U185 U186 U187 U188 U189 U190 U191 U192 U193<br>U194 U196 U197 U200 U201 U202 U203 U204 U205 U206<br>U207 U208 U209 U210 U211 U213 U214 U215 U216 U217<br>U218 U219 U220 U221 U222 U223 U225 U226 U227 U228<br>U234[4] U235 U236 U237 U238 U239 U240 U243 U244 U246<br>U247 U248 U249 U271 U277 U278 U279 U280 U328 U353<br>U359 U364 U367 U372 U373 U387 U389 U394 U395 U404<br>U409 U410 U411 | Classification Codes: H, 1, and 2<br>Form Codes:<br>Inorganic Liquids: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 113, 114, 116, 119)<br>Organic Liquids: (201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 219, 296, 297)<br>Inorganic Sludges: (519, 598)<br>Organic Sludges (608, 609, 698) |

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS - continued

| *No.* | *Waste* | *EPA Hazardous Waste Numbers*[1,2,3] | *TCEQ Waste Form Codes and Classification Codes*[1] |
|---|---|---|---|
| 4 | Mixed Waste Generated Off-Site Suitable for Macroencapsulation / Disposal (consists of mixed waste that meets disposal criteria upon macroencapsulation) | D001 D002 D003[4] D004 D005 D006 D007 D008 D009 D010<br>D011 D012 D013 D014 D015 D016 D017 D018 D019 D020<br>D021 D022 D023 D024 D025 D026 D027 D028 D029 D030<br>D031 D032 D033 D034 D035 D036 D037 D038 D039 D040<br>D041 D042 D043 F001 F002 F003 F004 F005 F006 F007<br>F008 F009 F010 F011 F012 F019 F024 F025 F028 F032<br>F034 F035 F037 F038 F039 K001 K002 K003 K004 K005<br>K006 K007 K008 K009 K010 K011 K013 K014 K015 K016<br>K017 K018 K019 K020 K021 K022 K023 K024 K025 K026<br>K027 K028 K029 K030 K031 K032 K033 K034 K035 K036<br>K037 K038 K039 K040 K041 K042 K043 K044[4] K045[4] K046<br>K047[4] K048 K049 K050 K051 K052 K060 K061 K062 K069<br>K071 K073 K083 K084 K085 K086 K087 K088 K093 K094<br>K095 K096 K097 K098 K099 K100 K101 K102 K103 K104<br>K105 K106 K107 K108 K109 K110 K111 K112 K113 K114<br>K115 K116 K117 K118 K123 K124 K125 K126 K131 K132<br>K136 K141 K142 K143 K144 K145 K147 K148 K149 K150<br>K151 K156 K157 K158 K159 K161 K169 K170 K171 K172<br>K174 K178 P001 P002 P003 P004 P005 P006 P007 P008<br>P009[4] P010 P011 P012 P013 P014 P015 P016 P017 P018<br>P020 P021 P022 P023 P024 P026 P027 P028 P029 P030<br>P031 P033 P034 P036 P037 P038 P039 P040 P041 P042<br>P043 P044 P045 P046 P047 P048 P049 P050 P051 P054<br>P056 P057 P058 P059 P060 P062 P063 P064 P065 P066<br>P067 P068 P069 P070 P071 P072 P073 P074 P075 P076[5]<br>P077 P078[5] P081[4] P082 P084 P085 P087 P088 P089 P092<br>P093 P094 P095 P096 P097 P098 P099 P101 P102 P103<br>P104 P105 P106 P108 P109 P110 P111 P112[4] P113 P114<br>P115 P116 P118 P119 P120 P121 P122 P123 P127 P128<br>P185 P188 P189 P190 P191 P192 P194 P196 P197 P198<br>P199 P201 P202 P203 P204 P205 U001 U002 U003 U004<br>U005 U006 U007 U008 U009 U010 U011 U012 U014 U015<br>U016 U017 U018 U019 U020 U021 U022 U023 U024 U025<br>U026 U027 U028 U029 U030 U031 U032 U033 U034 U035<br>U036 U037 U038 U039 U041 U042 U043 U044 U045 U046<br>U047 U048 U049 U050 U051 U052 U053 U055 U056 U057<br>U058 U059 U060 U061 U062 U063 U064 U066 U067 U068<br>U069 U070 U071 U072 U073 U074 U075 U076 U077 U078<br>U079 U080 U081 U082 U083 U084 U085 U086 U087 U088<br>U089 U090 U091 U092 U093 U094 U095 U096[4] U097 U098<br>U099 U101 U102 U103 U105 U106 U107 U108 U109 U110<br>U111 U112 U113 U114 U115 U116 U117 U118 U119 U120<br>U121 U122 U123 U124 U125 U126 U127 U128 U129 U130<br>U131 U132 U133[4] U134 U135 U136 U137 U138 U140 U141<br>U142 U143 U144 U145 U146 U147 U148 U149 U150 U151<br>U152 U153 U154 U155 U156 U157 U158 U159 U160[4] U161<br>U162 U163 U164 U165 U166 U167 U168 U169 U170 U171<br>U172 U173 U174 U175 U176 U177 U178 U179 U180 U181<br>U182 U183 U184 U185 U186 U187 U188 U189 U190 U191<br>U192 U193 U194 U196 U197 U200 U201 U202 U203 U204<br>U205 U206 U207 U208 U209 U210 U211 U213 U214 U215<br>U216 U217 U218 U219 U220 U221 U222 U223 U225 U226<br>U227 U228 U234[4] U235 U236 U237 U238 U239 U240 U243<br>U244 U246 U247 U248 U249 U271 U277 U278 U279 U280<br>U328 U353 U359 U364 U367 U372 U373 U387 U389 U394<br>U395 U404 U409 U410 U411 | Classification Codes: H<br>Form Codes:<br>Lab Packs: (001, 002, 003, 004, 009);<br>Inorganic Solids: (301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 319, 388);<br>Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499). |

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS - continued

| *No.* | *Waste* | *EPA Hazardous Waste Numbers*[1,2,3] | *TCEQ Waste Form Codes and Classification Codes*[1] |
|---|---|---|---|
| 5 | Mixed Waste Generated Off-Site Suitable for Macroencapsulation / Disposal (consists of mixed waste that meets disposal criteria upon macroencapsulation) | F001 F002 F003 F004 F005 F006 F007 F008 F009<br>F010 F011 F012 F019 F024 F025 F028 F032 F034 F035<br>F037 F038 F039 K001 K002 K003 K004 K005 K006 K007<br>K008 K009 K010 K011 K013 K014 K015 K016 K017 K018<br>K019 K020 K021 K022 K023 K024 K025 K026 K027 K028<br>K029 K030 K031 K032 K033 K034 K035 K036 K037 K038<br>K039 K040 K041 K042 K043 K044[4] K045[4] K046 K047[4] K048<br>K049 K050 K051 K052 K060 K061 K062 K069 K071 K073<br>K083 K084 K085 K086 K087 K088 K093 K094 K095 K096<br>K097 K098 K099 K100 K101 K102 K103 K104 K105 K106<br>K107 K108 K109 K110 K111 K112 K113 K114 K115 K116<br>K117 K118 K123 K124 K125 K126 K131 K132 K136 K141<br>K142 K143 K144 K145 K147 K148 K149 K150 K151 K156<br>K157 K158 K159 K161 K169 K170 K171 K172 K174 K178<br>P001 P002 P003 P004 P005 P006 P007 P008 P009[4] P010<br>P011 P012 P013 P014 P015 P016 P017 P018 P020 P021<br>P022 P023 P024 P026 P027 P028 P029 P030 P031 P033<br>P034 P036 P037 P038 P039 P040 P041 P042 P043 P044<br>P045 P046 P047 P048 P049 P050 P051 P054 P056 P057<br>P058 P059 P060 P062 P063 P064 P065 P066 P067 P068<br>P069 P070 P071 P072 P073 P074 P075 P076[5] P077 P078[5]<br>P081[4] P082 P084 P085 P087 P088 P089 P092 P093 P094<br>P095 P096 P097 P098 P099 P101 P102 P103 P104 P105<br>P106 P108 P109 P110 P111 P112[4] P113 P114 P115 P116<br>P118 P119 P120 P121 P122 P123 P127 P128 P185 P188<br>P189 P190 P191 P192 P194 P196 P197 P198 P199 P201<br>P202 P203 P204 P205 U001 U002 U003 U004 U005 U006<br>U007 U008 U009 U010 U011 U012 U014 U015 U016 U017<br>U018 U019 U020 U021 U022 U023 U024 U025 U026 U027<br>U028 U029 U030 U031 U032 U033 U034 U035 U036 U037<br>U038 U039 U041 U042 U043 U044 U045 U046 U047 U048<br>U049 U050 U051 U052 U053 U055 U056 U057 U058 U059<br>U060 U061 U062 U063 U064 U066 U067 U068 U069 U070<br>U071 U072 U073 U074 U075 U076 U077 U078 U079 U080<br>U081 U082 U083 U084 U085 U086 U087 U088 U089 U090<br>U091 U092 U093 U094 U095 U096[4] U097 U098 U099 U101<br>U102 U103 U105 U106 U107 U108 U109 U110 U111 U112<br>U113 U114 U115 U116 U117 U118 U119 U120 U121 U122<br>U123 U124 U125 U126 U127 U128 U129 U130 U131 U132<br>U133[4] U134 U135 U136 U137 U138 U140 U141 U142 U143<br>U144 U145 U146 U147 U148 U149 U150 U151 U152 U153<br>U154 U155 U156 U157 U158 U159 U160[1] U161 U162 U163<br>U164 U165 U166 U167 U168 U169 U170 U171 U172 U173<br>U174 U175 U176 U177 U178 U179 U180 U181 U182 U183<br>U184 U185 U186 U187 U188 U189 U190 U191 U192 U193<br>U194 U196 U197 U200 U201 U202 U203 U204 U205 U206<br>U207 U208 U209 U210 U211 U213 U214 U215 U216 U217<br>U218 U219 U220 U221 U222 U223 U225 U226 U227 U228<br>U234[4] U235 U236 U237 U238 U239 U240 U243 U244 U246<br>U247 U248 U249 U271 U277 U278 U279 U280 U328 U353<br>U359 U364 U367 U372 U373 U387 U389 U394 U395 U404<br>U409 U410 U411 | Classification Codes: H<br>Form Codes: Lab Packs: (001, 002, 003, 004, 009);<br>Inorganic Solids: (301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 319, 388);<br>Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499) |

[1] Hazardous waste codes, TCEQ Waste Form Codes and TCEQ Classification Codes identified in this table are derived from the codes in existence on January 20, 2005.

[2] Mixed wastes from off-site sources may carry any of the codes listed. Excluding waste that will be treated by WCS via macroencapsulation, the waste will have been treated elsewhere to achieve the applicable treatment standard(s) (or it may meet the standard without treatment) prior to receipt at WCS.

## TABLE IV.B. WASTES MANAGED IN PERMITTED UNITS - continued

[3] Wastes that exhibit the characteristic of an ignitable, reactive, and/or corrosive waste are acceptable only if they have been treated to remove such characteristic(s). Excluding waste that will be treated by WCS via macroencapsulation, all applicable underlying hazardous constituents must be treated in accordance with 40 CFR Part 268.40 or meet alternate treatment standards as allowed under 40 CFR Part 268 prior to receipt.

[4] No wastes that are explosive as defined in 40 CFR §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.

[5] Waste in a gaseous form will not be accepted unless it is packaged at an absolute pressure that does not exceed 1.5 atm at 20 degrees C.

[6] On-site generated wastes may carry any of the codes listed, based on the codes associated with the off-site waste from which the on-site waste was generated.

## TABLE IV.C. SAMPLING AND ANALYTICAL METHODS

| *Waste No.* | *Sample Type* | *Sampling Location* | *Sampling Method*[2] | *Frequency* [1] | *Parameter* [1, 2] | *Test Method* [2] | *Desired Accuracy Level* |
|---|---|---|---|---|---|---|---|
| 1 LLRW (not a solid waste) | Pre-Shipment Sample | Generator's Site | Scoop, trier, shovel | Once prior to waste stream approval and each time a profile is recertified. | 40 CFR Part 261 (D001-D043) | per SW-846 | Per SW-846 |
| | | | | | Free Liquids – Paint Filter Test | SW-846 9095A | Results match profile (must pass paint filter) |
| | | | | | pH Screen | ASTM D 4980 or equivalent | Std + 1.0 Standard unit (S.U.) |
| | | | | | Water Reactivity | ASTM D 5058C or equivalent | Results match profile |
| | | | | | Flammability Potential | ASTM D 4982 or equivalent | Duplicate samples must have same reaction |
| | | | | | Cyanide Screen | ASTM D 5059 or equivalent | Duplicate samples must have same reaction |
| | | | | | Sulfides Screen | ASTM D 4978 or equivalent | Duplicate samples must have same reaction |
| | | | | | Density | ASTM D 5057 or equivalent | Duplicate samples must have same reaction |
| | | | | | Soil Classification (soil and soil-like wastes only) | ASTM D2488/ AASHTO M145 or equivalent | Soils cannot be classified as Types A-6 or A-7 |
| 1 LLMW (hazardous) | Pre-shipment Sample | Generator's Site | Scoop, trier, shovel | Once prior to waste stream approval and each time a profile is recertified. | Applicable 40 CFR Part 268 requirements | Per SW-846 | Per SW-846 |
| | | | | | Free Liquids – Paint Filter Test | SW-846 9095A | Results match profile (must pass paint filter) |
| | | | | | pH Screen | ASTM D 4980 or equivalent | Std + 1.0 Standard unit (S.U.) |

| *Waste No.* | *Sample Type* | *Sampling Location* | *Sampling Method*[2] | *Frequency* [1] | *Parameter* [1, 2] | *Test Method* [2] | *Desired Accuracy Level* |
|---|---|---|---|---|---|---|---|
| 1 LLMW (hazardous), continued | | | | | Water Reactivity | ASTM D 5058C or equivalent | Results match profile |
| | | | | | Flammability Potential | ASTM D 4982 or equivalent | Duplicate samples must have same reaction |
| | | | | | Cyanide Screen | ASTM D 5059 or equivalent | Duplicate samples must have same reaction |
| | | | | | Sulfides Screen | ASTM D 4978 or equivalent | Duplicate samples must have same reaction |
| | | | | | Density | ASTM D 5057 or equivalent | Duplicate samples must have same reaction |
| | | | | | Soil Classification (soil and soil-like wastes only) | ASTM D2488/ AASHTO M145 or equivalent | Soils cannot be classified as Types A-6 or A-7 |
| 1 (LLRW and LLMW) | Shipment Verification Sample | Container Staging Building | Scoop, trier, shovel | Grab sample of first 10 containers (minimum) and 10% of containers thereafter for all wastes that are subject to intrusive verification sampling and analysis (see WAP Table 2.1) | Free Liquids – Paint Filter Test | SW-846 9095A | Results match profile |
| | | | | | pH Screen | ASTM D 4980 or equivalent | Std + 1.0 Standard unit (S.U.) |
| | | | | | Water Reactivity | ASTM D 5058C or equivalent | Results match profile |
| | | | | | Flammability Potential | ASTM D 4982 or equivalent | Duplicate samples must have same reaction |
| | | | | | Cyanide Screen | ASTM D 5059 or equivalent | Duplicate samples must have same reaction |
| | | | | | Sulfides Screen | ASTM D 4978 or equivalent | Duplicate samples must have same reaction |
| | | | | | Density | ASTM D 5057 or equivalent | Duplicate samples must have same reaction |

| *Waste No.* | *Sample Type* | *Sampling Location* | *Sampling Method*[2] | *Frequency* [1] | *Parameter* [1, 2] | *Test Method* [2] | *Desired Accuracy Level* |
|---|---|---|---|---|---|---|---|
| | | | | | Soil Classification (soil and soil-like wastes only) | ASTM D2488/ AASHTO M145 or equivalent | Soils cannot be classified as Types A-6 or A-7 |

[1] See WAP for additional information.
[2] See WAP for additional procedures and methods.

***NOTE:*** Waste Nos. 2 and 3 are not shown above because they are on-site generated wastes that are typically characterized by knowledge of the wastes with which they have come into contact; no sampling and analyses are routinely performed on these wastes. However, leachate and other contact water will be treated in a future wastewater treatment plant to be located on-site; sampling and analyses of the treated effluent will be conducted in accordance with applicable license and water quality permit requirements. Waste Nos. 4 and 5 are not shown above because the waste form is not amenable to sampling and the treatment standard of macroencapsulation is a performance based standard.

## TABLE V.B - CONTAINER STORAGE AREAS

| *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 Incompatible[2] Waste*** *(state all that apply)* |
|---|---|---|---|---|---|---|
| 1 | FWF Waste Staging Building | 03 | 22,140 cubic feet | 60 feet x 152.33 feet (plus sampling room of 23 feet x 25 feet) | No liquid based on WAC (& enclosed building)[3,4] | Incompatible wastes are properly segregated |
| 2 | FWF Bulk Container Staging Building | 02 | 35,110 cubic feet | 58.33 feet x 450 feet (plus unloading area of 20 feet by 150 feet) | No liquid based on WAC (& enclosed building)[3,4] | Incompatible wastes are properly segregated |
| | | | | | | |

[1]Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.
[2]Incompatible 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.
* If the unit is already permitted, use the established "Permit Unit No." If the unit is not yet permitted, the number given here for the unit will become the "Permit Unit No." The numbers should be in an order that will be convenient for the facility operator.
[3]Non-liquid waste based on WAC; however, portable spill containment devices (temporary) are provided as indicated in the Container Storage Unit Engineering Report.
[4]A minimum of 9,749 cubic feet of permanent containment volume is provided for the FWF Bulk Container Staging Building. For the FWF Waste Staging Building, 1,960 cubic feet (minimum) of permanent containment volume is provided. Refer to footnote number 3, above. Note that the raised staging area and the sampling room are not included in the minimum containment calculation for the Container Staging Building.

Table V.C. - Tanks and Tank Systems

| Permit Unit No. | Tank | N.O.R. No. | Storage and/or Processing | Waste Nos.[1] | Rated Capacity | Dimensions | Containment Volume (including rainfall for unenclosed areas) | Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply) |
|---|---|---|---|---|---|---|---|---|
| 004 | FWF Contact Water Tank 1 | 004 | Storage and Processing | 3 | 500,000 gallons | 60'D X 24'H | 785,450 gallons | No |
| 005 | FWF Contact Water Tank 2 | 004 | Storage and Processing | 3 | 500,000 gallons | 60'D X 24'H | 785,450 gallons | No |
| 006 | FWF Contact Water Tank 3 | 004 | Storage and Processing | 3 | 500,000 gallons | 60'D X 24'H | 785,450 gallons | No |
| 007 | FWF Contact Water Tank 4 | 006 | Storage and Processing | 3 | 500,000 gallons | 60'D X 24'H | 692,580 gallons | No |
| 008 | FWF Contact Water Tank 5 | 006 | Storage and Processing | 3 | 500,000 gallons | 60'D X 24'H | 692,580 gallons | No |
| 009 | FWF WWTP Reaction Tank 1 | 005 | Storage and Processing | 3 | 1,000 gallons | 5'D x 7.5'H | 7,135 gallons | No |
| 010 | FWF WWTP Reaction Tank 2 | 005 | Storage and Processing | 3 | 1,000 gallons | 5'D x 7.5'H | 7,135 gallons | No |
| 011 | FWF WWTP Concentration Tank | 005 | Storage and Processing | 3 | 1,700 gallons | 6'D x 8'H | 7,135 gallons | No |
| 012 | FWF WWTP Cleaning Tank 1 | 005 | Storage and Processing | 3 | 500 gallons | 4'W x 6'L x 3' H | 7,135 gallons | No |
| 013 | FWF WWTP Cleaning Tank 2 | 005 | Storage and Processing | 3 | 500 gallons | 4'W x 6'L x 3' H | 7,135 gallons | No |

Table V.C. - Tanks and Tank Systems - continued

| Permit Unit No. | Tank | N.O.R. No. | Storage and/or Processing | Waste Nos.[1] | Rated Capacity | Dimensions | Containment Volume (including rainfall for unenclosed areas) | Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply) |
|---|---|---|---|---|---|---|---|---|
| 014 | FWF WWTP Neutralization Tank | 005 | Storage and Processing | 3 | 1,500 gallons | 6'D x 7.17'H | 7,135 gallons | No |
| 015 | FWF WWTP Discharge Collection Tank | 005 | Storage and Processing | 3 | 500 gallons | 4'D x 5.52'H | 7,135 gallons | No |

[1]from 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 | Federal Waste Facility Landfill | 3 | 1 thru 4 | 4,000,000 cu. yds. | **Non-Canister Disposal Area (lined area):** 550 ft (east/west), 1,130 ft (north/south); max. waste thickness: 70 ft. **Canister Disposal Area (lined area):** 1,280 ft (north/south), 720 ft (north/south), 1,130 ft (east/west); max. waste thickness: 77 ft. **Depth from Finished Grade to Bottom of Waste:** 105–115 ft. | 59 feet | 3,310 gpad (landfill floor) and 3,260 gpad (landfill sidewalls)[3] | Incompatible wastes are properly segregated |

[1]from Table IV.B, first column

[2]If not required in accordance with 40 CFR 264.302, state "NOT REQUIRED."

* If the unit is already permitted, use the established "Permit Unit No." If the unit is not yet permitted, the number given here for the unit will become the "Permit Unit No." The numbers should be in an order that will be convenient for the facility operator.

[3] ALR is calculated as documented in Appendix F.2 of Attachment V.G.

**TABLE V.G.3. - LANDFILL LINER SYSTEM**

| *No.** | *Landfill* | *Primary Liner* | | | *Secondary Liner* | | | *Clay Liner* | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Material | Permeability (cm/sec) | Thickness | Material | Permeability (cm/sec) | Thickness | Material | Permeability (cm/sec) | Thickness |
| 3 | Federal Waste Facility Landfill | HDPE | $2.7 \times 10^{-13}$ | 60 mil | HDPE | $2.7 \times 10^{-13}$ | 60 mil | Dockum Red Bed | $\leq 1 \times 10^{-7}$ | 3 feet |
| | | | | | | | | | | |

* This number should match the Permit Unit No. given on Table V.G.1.

## TABLE V.G.4. - LANDFILL LEACHATE COLLECTION SYSTEM

| Landfill | Primary Leachate Collection System | | | | | Secondary Leachate Collection System | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Drainage Media | Collection Pipes (including risers) | Filter Fabric | Geofabric | Sump Material | Drainage Media | Collection Pipes (including risers) | Filter Fabric | Geofabric | Sump Material |
| Federal Waste Facility Landfill | On floor: geocomposite with geonet minimum 8 oz geotextile filter fabric; on sidewalls: geocomposite drainage media (geonet and 6 oz geotextile both sides | 6" HDPE lateral pipes, DR 9; 8" HDPE collector pipes, DR 9; 24" HDPE sump collection pipe, DR 9; 20" HDPE sidewall riser, DR 9 | Minimum 8 oz on floor; 6 oz geotextile on sidewall | Geocomposite | 2 layers 60 mil HDPE with gravel and 16 oz geotextile | Geonet on floor; geocomposite drainage media on sidewalls (geonet and 6 oz geotextile both sides) | 6" HDPE collector pipes, DR 7; 8" HDPE sidewall riser DR 9 | — | Geocomposite/ geonet | 60-mil HDPE with gravel, 16 oz geotextile and geonet |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-1B | FWF-1C | FWF-2B | FWF-2C | FWF-2D | FWF-3B |
| Hydrogeologic Unit Monitored | 125 | 225 | 125 | 225 | 225 | 125 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | Observ | POC | POC | Observ |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3474.80 | 3474.68 | Proposed | Proposed | Proposed | Proposed |
| Grade or Surface Elevation (ft, MSL) | 3471.6 | 3471.5 | Proposed | Proposed | Proposed | Proposed |
| Well Depth (ft below TOC) | 107.9 | 259.0 | Proposed | Proposed | Proposed | Proposed |
| Screen Interval, From(ft) To(ft) | 3377.7 to 3367.7 | 3226.3 to 3216.3 | Proposed | Proposed | Proposed | Proposed |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | Proposed | Proposed | Proposed | Proposed |
| Northing (ft) | 6874426.4962 | 6874421.0693 | Proposed | Proposed | Proposed | Proposed |
| Easting (ft) | 562063.4720 | 562075.3983 | Proposed | Proposed | Proposed | Proposed |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-3C | FWF-3D | FWF-4B | FWF-4C | FWF-4D | FWF-5B |
| Hydrogeologic Unit Monitored | 225 | 225 | 125 | 225 | 225 | 125 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | POC | Observ | POC | POC | Observ |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Grade or Surface Elevation (ft, MSL) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Well Depth (ft below TOC ) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Screen Interval, From(ft) To(ft) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Facility Coordinates (e.g., lat/long or company coordinates) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Northing (ft) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |
| Easting (ft) | Proposed | Proposed | Proposed | Proposed | Proposed | Proposed |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-5C | FWF-5D | FWF-6B | FWF-6C | FWF-7B | FWF-7C |
| Hydrogeologic Unit Monitored | 225 | 225 | 125 | 225 | 125 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | POC | Observ | POC | Observ | POC |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | Proposed | Proposed | 3473.15 | 3473.12 | Proposed | Proposed |
| Grade or Surface Elevation (ft, MSL) | Proposed | Proposed | 3470.3 | 3470.2 | Proposed | Proposed |
| Well Depth (ft below TOC) | Proposed | Proposed | 123.1 | 254.0 | Proposed | Proposed |
| Screen Interval, From(ft) To(ft) | Proposed | Proposed | 3365.8 to 3350.8 | 3234.8 to 3219.8 | Proposed | Proposed |
| Facility Coordinates (e.g., lat/long or company coordinates) | Proposed | Proposed | State Plane | State Plane | Proposed | Proposed |
| Northing (ft) | Proposed | Proposed | 6874108.1808 | 6874100.5948 | Proposed | Proposed |
| Easting (ft) | Proposed | Proposed | 562754.5267 | 562773.1359 | Proposed | Proposed |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-7D | FWF-8B | FWF-8C | FWF-8D | FWF-9B | FWF-9C |
| Hydrogeologic Unit Monitored | 225 | 125 | 225 | 225 | 125 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | Observ | POC | POC | Observ | POC |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | Proposed | Proposed | Proposed | Proposed | 3472.48 | 3472.19 |
| Grade or Surface Elevation (ft, MSL) | Proposed | Proposed | Proposed | Proposed | 3469.3 | 3468.9 |
| Well Depth (ft below TOC ) | Proposed | Proposed | Proposed | Proposed | 118.7 | 243.1 |
| Screen Interval, From(ft) To(ft) | Proposed | Proposed | Proposed | Proposed | 3369.3 to 3354.3 | 3244.7 to 3229.7 |
| Facility Coordinates (e.g., lat/long or company coordinates) | Proposed | Proposed | Proposed | Proposed | State Plane | State Plane |
| Northing (ft) | Proposed | Proposed | Proposed | Proposed | 6873916.564 | 6873908.6212 |
| Easting (ft) | Proposed | Proposed | Proposed | Proposed | 563176.3943 | 563191.8078 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-9D | FWF-10B | FWF-10C | FWF-10D | FWF-11B | FWF-11C |
| Hydrogeologic Unit Monitored | 225 | 125 | 225 | 225 | 125 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | Observ | POC | POC | Observ | POC |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3471.96 | 3472.83 | 3472.56 | 3473.31 | 3472.06 | 3471.98 |
| Grade or Surface Elevation (ft, MSL) | 3468.8 | 3468.7 | 3468.9 | 3468.9 | 3468.9 | 3468.9 |
| Well Depth (ft below TOC ) | 256.9 | 118.6 | 235.7 | 248.0 | 125.3 | 245.3 |
| Screen Interval, From(ft) To(ft) | 3230.6 to 3215.6 | 3368.9 to 3354.9 | 3243.3 to 3228.3 | 3231.0 to 3216.0 | 3362.3 to 3347.3 | 3242.3 to 3227.3 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6873899.8854 | 6873845.1471 | 6873838.6796 | 6873835.1300 | 6873789.3491 | 6873781.0514 |
| Easting (ft) | 563210.6151 | 563337.2007 | 563347.0986 | 563357.3367 | 563451.9747 | 563471.2334 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-11D | FWF-12B | FWF-12C | FWF-12D | FWF-13B | FWF-13C |
| Hydrogeologic Unit Monitored | 225 | 125 | 225 | 225 | 125 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | Observ | POC | POC | Observ | POC |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | DG | DG | DG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3472.37 | 3472.39 | 3472.34 | 3472.49 | 3472.17 | 3472.53 |
| Grade or Surface Elevation (ft, MSL) | 3468.7 | 3469.0 | 3468.9 | 3469.0 | 3469.0 | 3469.1 |
| Well Depth (ft below TOC ) | 257.0 | 133.8 | 261.3 | 276.8 | 132.3 | 257.6 |
| Screen Interval, From(ft) To(ft) | 3230.9 to 3215.9 | 3354.3 to 3339.3 | 3226.6 to 3211.6 | 3211.3 to 3196.3 | 3355.4 to 3340.4 | 3230.5 to 3215.5 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6873773.1459 | 6873725.9743 | 6873719.3197 | 6873709.9968 | 6873662.4105 | 6873654.1728 |
| Easting (ft) | 563489.9446 | 563589.1720 | 563606.6668 | 563624.9147 | 563728.5828 | 563747.1123 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-13D | FWF-14B | FWF-14C | FWF-15B | FWF-15C | FWF-15D |
| Hydrogeologic Unit Monitored | 225 | 125 | 225 | 125 | 225 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | Observ | POC | Observ | POC | POC |
| Up, Down or Side Gradient (UG, DG, SG) | DG | DG | DG | SG | SG | SG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3472.77 | 3473.52 | 3472.95 | 3472.68 | 3472.88 | 3473.14 |
| Grade or Surface Elevation (ft, MSL) | 3469.0 | 3469.2 | 3469.2 | 3469.5 | 3469.6 | 3469.8 |
| Well Depth (ft below TOC ) | 273.2 | 132.9 | 256.8 | 125.3 | 252.9 | 264.6 |
| Screen Interval, From(ft) To(ft) | 3214.9 to 3199.9 | 3356.2 to 3341.2 | 3223.2 to 3208.2 | 3363.0 to 3348.0 | 3235.6 to 3220.6 | 3224.2 to 3209.2 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6873645.5630 | 6873592.1622 | 6873583.4828 | 6873641.6440 | 6873659.7358 | 6873675.4130 |
| Easting (ft) | 563765.7717 | 563882.8324 | 563901.5211 | 563972.0967 | 563980.5736 | 563988.0318 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-16B | FWF-16C | FWF-16D | FWF-17B | FWF-17C | FWF-17D |
| Hydrogeologic Unit Monitored | 125 | 225 | 225 | 125 | 225 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | POC | Observ | POC | POC |
| Up, Down or Side Gradient (UG, DG, SG) | SG | SG | SG | SG | SG | SG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3478.31 | 3478.43 | 3478.53 | 3477.54 | 3477.93 | 3478.23 |
| Grade or Surface Elevation (ft, MSL) | 3473.1 | 3473.3 | 3473.3 | 3477.8 | 3478.1 | 3478.5 |
| Well Depth (ft below TOC ) | 135.7 | 257.6 | 270.5 | 144.0 | 260.5 | 279.0 |
| Screen Interval, From(ft) To(ft) | 3357.9 to 3342.9 | 3236.7 to 3221.7 | 3223.1 to 3208.1 | 3349.2 to 3334.2 | 3232.6 to 3217.6 | 3214.9 to 3199.9 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6873968.0899 | 6873982.1988 | 6873993.1844 | 6874375.8800 | 6874389.5101 | 6874403.3939 |
| Easting (ft) | 564124.4657 | 564130.7703 | 564135.781 | 564311.8932 | 564318.3038 | 564324.0419 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-18B | FWF-18C | FWF-18D | FWF-21B | FWF-21C | FWF-21D |
| Hydrogeologic Unit Monitored | 125 | 225 | 225 | 125 | 225 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | POC | Observ | POC | POC |
| Up, Down or Side Gradient (UG, DG, SG) | UG | UG | UG | UG | UG | UG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3483.60 | 3483.71 | 3483.87 | 3485.72 | 3485.98 | 3485.61 |
| Grade or Surface Elevation (ft, MSL) | 3480.5 | 3480.5 | 3480.7 | 3484.9 | 3485.1 | 3485.2 |
| Well Depth (ft below TOC ) | 146.9 | 270.5 | 283.0 | 145.8 | 268.3 | 291.4 |
| Screen Interval, From(ft) To(ft) | 3352.4 to 3337.4 | 3228.8 to 3213.8 | 3216.5 to 3201.5 | 3354.2 to 3339.2 | 3232.0 to 3217.0 | 3208.8 to 3193.8 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6874687.3158 | 6874690.9928 | 6874698.5186 | 6875308.416 | 6875613.2443 | 6875318.3481 |
| Easting (ft) | 564496.8229 | 564486.1791 | 564468.4068 | 563818.8526 | 563806.7260 | 563796.0980 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-22B | FWF-22C | FWF-22D | FWF-23B | FWF-23C | FWF-23D |
| Hydrogeologic Unit Monitored | 125 | 225 | 225 | 125 | 225 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | POC | Observ | POC | POC |
| Up, Down or Side Gradient (UG, DG, SG) | UG | UG | UG | UG | UG | UG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3487.06 | 3486.96 | 3487.07 | 3486.61 | 3486.49 | 3486.39 |
| Grade or Surface Elevation (ft, MSL) | 3486.7 | 3486.9 | 3486.8 | 3486.4 | 3486.3 | 3486.3 |
| Well Depth (ft below TOC ) | 149.3 | 269.2 | 285.7 | 144.3 | 266.9 | 275.7 |
| Screen Interval, From(ft) To(ft) | 3353.3 to 3338.3 | 3233.4 to 3218.4 | 3217.0 to 3202.0 | 3357.9 to 3342.9 | 3234.7 to 3219.7 | 3222.4 to 3207.4 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6875541.2897 | 6875547.6513 | 6875558.8005 | 6875592.3248 | 6875598.8774 | 6875605.2059 |
| Easting (ft) | 563434.5242 | 563420.8339 | 563396.9949 | 563159.2874 | 563146.0768 | 563132.7551 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-25B | FWF-25C | FWF-25D | FWF-26B | FWF-26C | FWF-26D |
| Hydrogeologic Unit Monitored | 125 | 225 | 225 | 125 | 225 | 225 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | POC | Observ | POC | POC |
| Up, Down or Side Gradient (UG, DG, SG) | SG | SG | SG | SG | SG | SG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3486.29 | 3486.10 | 3485.58 | 3482.41 | 3482.31 | 3482.26 |
| Grade or Surface Elevation (ft, MSL) | 3482.9 | 3482.7 | 3482.5 | 3479.3 | 3479.3 | 3479.2 |
| Well Depth (ft below TOC ) | 145.9 | 261.0 | 275.5 | 146.7 | 266.3 | 275.1 |
| Screen Interval, From(ft) To(ft) | 3356.1 to 3341.1 | 3240.8 to 3225.8 | 3225.8 to 3210.8 | 3351.3 to 3336.3 | 3226.6 to 3216.6 | 3217.7 to 3207.7 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | State Plane | State Plane | State Plane |
| Northing (ft) | 6875649.4520 | 6875632.5970 | 6875614.4840 | 6875269.6558 | 6875257.3582 | 6875245.6837 |
| Easting (ft) | 562539.4730 | 562531.1820 | 562523.1650 | 562368.1321 | 562362.8945 | 562358.2246 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-27B | FWF-27C | FWF-28B | FWF-28C | FWF-28D | FWF-119B |
| Hydrogeologic Unit Monitored | 125 | 225 | 125 | 225 | 225 | 125 |
| Type- point of compliance (POC), background (BG), observation (Observ) | Observ | POC | Observ | POC | POC | Observ |
| Up, Down or Side Gradient (UG, DG, SG) | SG | SG | SG | SG | SG | UG |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC | 2" PVC |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" | 0.010" |
| Top of Casing Elevation (ft, MSL) | 3479.09 | 3478.99 | Proposed | Proposed | Proposed | 3481.03 |
| Grade or Surface Elevation (ft, MSL) | 3474.6 | 3474.2 | Proposed | Proposed | Proposed | 3481.1 |
| Well Depth (ft below TOC) | 125.6 | 270.9 | Proposed | Proposed | Proposed | 142.4 |
| Screen Interval, From(ft) To(ft) | 3370.2 to 3355.2 | 3224.7 to 3209.7 | Proposed | Proposed | Proposed | 3354.1 to 3339.1 |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | Proposed | Proposed | Proposed | State Plane |
| Northing (ft) | 6874873.4286 | 6874852.8919 | Proposed | Proposed | Proposed | 6874825.7239 |
| Easting (ft) | 562184.3360 | 562177.3215 | Proposed | Proposed | Proposed | 564041.4846 |

TABLE VI.B.3.b
UNIT GROUNDWATER DETECTION MONITORING SYSTEM

| Waste Management Unit/Area Name | Unit No. 3 | | | | | |
|---|---|---|---|---|---|---|
| Well Number(s) | FWF-119C | FWF-119D | FWF-19A (TP-33) | | | |
| Hydrogeologic Unit Monitored | 225 | 225 | OAG | | | |
| Type- point of compliance (POC), background (BG), observation (Observ) | POC | POC | Observ | | | |
| Up, Down or Side Gradient (UG, DG, SG) | UG | UG | UG | | | |
| Casing Diameter and Material | 2" PVC | 2" PVC | 2" PVC | | | |
| Screen Diameter and Material | 2" PVC | 2" PVC | 2" PVC | | | |
| Screen Slot Size (in.) | 0.010" | 0.010" | 0.010" | | | |
| Top of Casing Elevation (ft, MSL) | 3480.96 | 3481.11 | 3486.28 | | | |
| Grade or Surface Elevation (ft, MSL) | 3481.2 | 3481.3 | 3483.5 | | | |
| Well Depth (ft below TOC) | 273.1 | 284.5 | 55.2 | | | |
| Screen Interval, From(ft) To(ft) | 3223.6 to 3208.6 | 3211.5 to 3196.5 | 3441.8 to 3431.8 | | | |
| Facility Coordinates (e.g., lat/long or company coordinates) | State Plane | State Plane | State Plane | | | |
| Northing (ft) | 6874841.7440 | 6874858.6563 | 6874937.3974 | | | |
| Easting (ft) | 564030.5397 | 564018.2856 | 564545.6547 | | | |

## TABLE VI.B.3.C. - GROUNDWATER SAMPLE ANALYSIS

For each well or group of wells, specify the suite of parameters for which groundwater samples will be analyzed.

Well No(s). FWF-1 (B & C), FWF-2 (B, C & D), FWF-3 (B, C & D), FWF-4 (B, C & D), FWF-5 (B, C & D), FWF-6 (B & C), FWF-7 (B, C & D), FWF-8 (B, C & D), FWF-9 (B, C & D), FWF-10 (B, C & D), FWF-11 (B, C & D), FWF-12 (B, C & D), FWF-13 (B, C & D), FWF-14 (B & C), FWF-15 (B, C & D), FWF-16 (B, C & D), FWF-17(B, C & D), FWF-18 (B, C, & D), FWF-21 (B, C & D), FWF-22 (B, C & D), FWF-23 (B, C & D), FWF-25 (B, C & D), FWF-26 (B, C & D), FWF-27 (B & C), FWF-28 (B, C & D), FWF-119 (B, C & D), FWF-19A

| ***Parameter*** | *Sampling Frequency* | *Analytical Method* | *Detection Limits* | ***Concentration Limits***[1] |
|---|---|---|---|---|
| **Volatile Organic Monitoring Parameters** | | | | |
| Acetone | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 100 µg/L | 100 µg/L |
| Benzene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Bromoform | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Carbon Disulfide | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Carbon Tetrachloride | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Chlorobenzene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Chlorodibromomethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Chloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 10 µg/L | 10 µg/L |
| Chloroform | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Dichlorobromomethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| 1,1-Dichloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| 1,2-Dichloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| 1,1-Dichloroethylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |

[1] The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.

## TABLE VI.B.3.c. - GROUNDWATER SAMPLE ANALYSIS

| ***Parameter*** | *Sampling Frequency* | *Analytical Method* | *Detection Limits* | ***Concentration Limits[1]*** |
|---|---|---|---|---|
| **Volatile Organic Monitoring Parameters (concluded)** | | | | |
| 1,2-Dichloropropane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| cis-1,3_Dichloropropylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| trans-1,3_Dichloropropylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Ethylbenzene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Methyl Bromide | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 10 µg/L | 10 µg/L |
| Methyl Chloride | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 10 µg/L | 10 µg/L |
| 1,1,2,2-Tetrachloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Tetrachloroethylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Toluene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| 1,2-trans-Dichloroethylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 10 µg/L | 5 µg/L |
| 1,1,1-Trichloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| 1,1,2-Trichloroethane | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Trichloroethylene | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 5 µg/L | 5 µg/L |
| Vinyl Chloride | Staggered Semi-Annual | SW-846 8260/EPA Method 624 | 10 µg/L | 10 µg/L |

[1] The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.

## TABLE VI.B.3.C. - GROUNDWATER SAMPLE ANALYSIS

| ***Parameter*** | *Sampling Frequency* | *Analytical Method* | *Detection Limits* | ***Concentration Limits*** |
|---|---|---|---|---|
| **Semi-Volatile Organic Monitoring Parameter** | | | | |
| Phenol | Staggered Semi-Annual | SW-846 8270/EPA Method 625 | 10 µg/L | 10 µg/L |
| 1, 4 Dioxane | Staggered Semi-Annual | SW-846 8270/EPA Method 625 | 10 µg/L | 10 µg/L |
| **Metal Monitoring Parameters** | | | | |
| Arsenic | Staggered Semi-Annual | SW-846 6010/EPA Method 200.7 | 0.01 mg/L | NA |
| Nickel | Staggered Semi-Annual | SW-846 6010/EPA Method 200.7 | 0.005 mg/L | NA |
| Cadmium | Staggered Semi-Annual | SW-846 6010/EPA Method 200.7 | 0.005 mg/L | NA |
| Selenium | Staggered Semi-Annual | SW-846 6010/EPA Method 200.7 | 0.005 mg/L | NA |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

[1] The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.

## Table VII.E.1. - Permitted Unit Closure Cost Summary

| **Existing Unit Closure Cost Estimate** | |
|---|---|
| Unit | Cost |
| **RCRA FWF Unplanned Closure** | |
| Description | |
| Labor (including OH&P, Admin, and Oversight) | $8,215,150 |
| Material (including OH&P, Admin and Oversight) | $16,273,862 |
| Subcontract (including Admin and Oversight) | $5,679,684 |
| Equipment (including Admin and Oversight) | $13,428,067 |
| **SUBTOTAL** | **$43,596,763** |
| Contingency | $4,034,385 |
| Escalation 2005 – 2007 | $2,091,985 |
| **TOTAL ADDERS** | **$6,126,369** |
| **Total Existing Unit Closure Cost Estimate (Unplanned Closure)** | **$49,723,133 (2007)**<br>**$53,850,153 (2012)[1]** |
| Proposed Unit Closure Cost Estimate | |
| Unit | Cost |
| FWF WWTP Total Closure (Unplanned) | $833,988 (2012) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| **Total Existing and Proposed Unit Closure Cost Estimate** | **$54,684,141[2]** |

1. From TCEQ Annual Inflation Factors, for years 2007 – 2012, annual percentage increase is as follows: 2.2 (2008) + 1.2 (2009) + 1.0 (2010) + 2.1 (2011) + 1.8 (2012) = 8.3% increase.

[1] As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

[2] Of the total Unit Closure Cost Estimate, $4,734,858 (2013) is dedicated specifically for RCRA Closure, the remainder of the total Unit Closure Cost estimate is overlap between RCRA (HW-50397) and RML (RW4100) closure.

## TABLE VII.E.2. PERMITTED UNIT POST-CLOSURE COST SUMMARY

(Source: Permit Application, Attachment VII.C, Revision 3, November 5, 2007)

| Existing Unit Post-Closure Cost Estimate | |
|---|---|
| **Unit** | **Cost** |
| | |
| No currently permitted units exist at the proposed facility. | |
| | |
| **TOTAL EXISTING UNIT POST-CLOSURE COST ESTIMATE** | **0** |

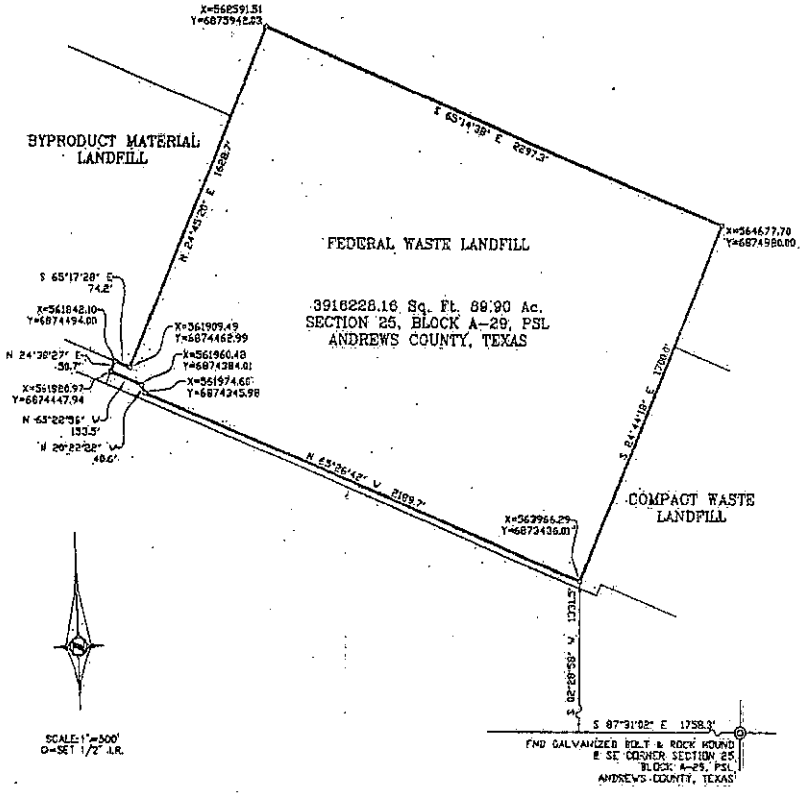
| PROPOSED UNIT NOS. 1, 2 AND 3 POST-CLOSURE COST ESTIMATE | |
|---|---|
| **Unit** | **Cost** |
| General Support | $305,059 |
| Walkover | $26,294 |
| Sample Collection & Preparation/Erosion Pins | $171,371 |
| Sample Analysis Interpretation | $12,428 |
| Sample Analysis at Off Site Lab | $312,239 |
| Leachate Monitoring, Pumping, Treatment | $33,219 |
| Meteorological Data Collection & Interpretation | $21,109 |
| Infiltration Data Collection & Interpretation | $21,109 |
| Annual Report Preparation | $12,065 |
| Conduct Land Survey | $240,644 |
| Survey Settlement Monitors | $2,714 |
| Maintenance | $78,622 |
| Regulatory Oversight | $213,090 |
| **SUBTOTAL** | $1,449,962 |
| **ADDERS** | |
| Contingency | $144,996 |
| Escalation 2005 – 2007 | $95,481 |
| **TOTAL ADDERS** | **$240,477** |
| **PROPOSED UNIT POST-CLOSURE ANNUAL COST ESTIMATE** | **$1,690,439 per year** |
| **PROPOSED UNIT POST-CLOSURE TOTAL COST ESTIMATE** | **$50,713,170 for 30 years** |

## TABLE VII.G - POST-CLOSURE PERIOD

| Unit Name | Date Certified Closed | Permitted Post Closure Period (Yrs) | Date Post Closure Ends |
|---|---|---|---|
| Federal Waste Facility Landfill | To be Determined | 30 years | To be Determined |

Permit No. 50397
Attachment A
Sheet 1 of 2

# SITE LEGAL DESCRIPTION




FIELD NOTE DESCRIPTION OF AN 89.90 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a ½-inch iron rod set for the southeast corner of this tract, from which point a galvanized bolt and rock mound found for the Patented Southeast corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, as filed of record in Volume 3, Page 272, Patent Records, Andrews County, Texas, bears S 02° 28' 58" W, 1331.5 feet and S 87° 31' 02" E, 1758.3 feet;

THENCE N 65° 26' 42" W, 2189.7 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 20° 22' 22" W, 40.6 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 65° 22' 56" W, 153.5 feet to a ½-inch iron rod set for the southwest corner of this tract;
THENCE N 24° 38' 27" E, 50.7 feet to a ½-inch iron rod set for a corner of this tract;
THENCE S 65° 17' 28" E, 74.2 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 24° 45' 20" E, 1628.7 feet to a ½-inch iron rod set for the northwest corner of this tract;
THENCE S 65° 14' 38" E, 2297.3 feet to a ½-inch iron rod set for the northeast corner of this tract;
THENCE S 24° 44' 18" W, 1700.0 feet to the place of beginning and containing 3916228.16 square feet or 89.90 acres of land.

Note: Coordinates are Texas State Plane NAD 83 Texas North Central Zone in US Survey Feet, with a Scale Factor of 0.99996852, Bearings are Grid and have a Theta Angle of -02° 29' 13".

Dated: March 13, 2007

STARK SURVEYING, LLC

By:

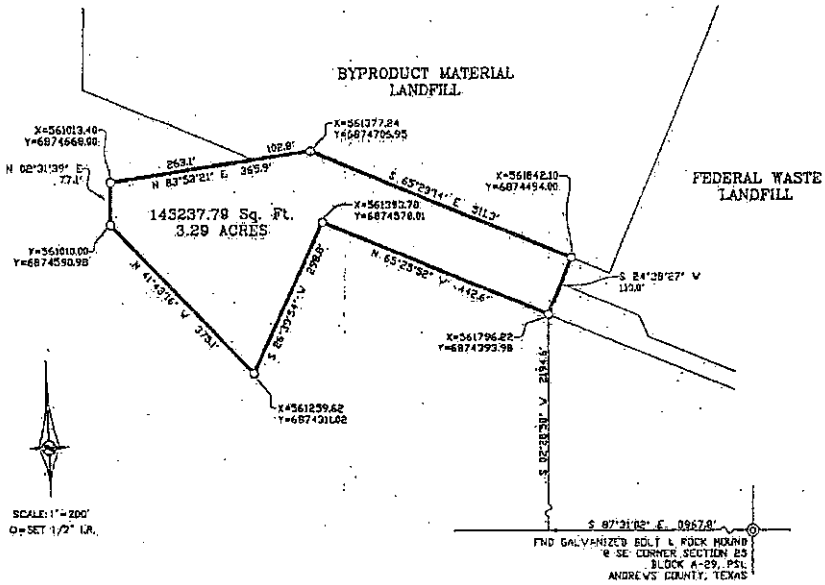
Jimmie Robert Stark
Registered Professional Land Surveyor

STATE OF TEXAS
JIMMIE ROBERT STARK
4960
PROFESSIONAL LAND SURVEYOR

SS Job No. 80808
Cook-Joyce, Inc.

STARK SURVEYING, LLC
3300 N. "A" STREET, BLDG. 1-200
MIDLAND, TEXAS

# SITE LEGAL DESCRIPTION (CONT')




FIELD NOTE DESCRIPTION OF A 3.29 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a ½-inch iron rod set for the southeast corner of this tract, from which point a galvanized bolt and rock mound found for the Patented Southeast corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, as filed of record in Volume 3, Page 272, Patent Records, Andrews County, Texas, bears S 02° 28' 58" W, 2194.6 feet and S 87° 31' 02" E, 3967.8 feet;

THENCE N 65° 25' 52" W, 442.6 feet to a ½-inch iron rod set for a corner of this tract;

THENCE S 26° 39' 54" W, 298.8 feet to a ½-inch iron rod set for a corner of this tract;

THENCE N 41° 43' 16" W, 375.1 feet to a ½-inch iron rod set for the southwest corner of this tract;

THENCE N 02° 31' 39" E, 77.1 feet to a ½-inch iron rod set for the northwest corner of this tract;

THENCE N 83° 53' 21" E, 365.9 feet to a ½-inch iron rod set for a corner of this tract;

THENCE S 65° 23' 14" E, 511.3 feet to a ½-inch iron rod set for the northeast corner of this tract;

THENCE S 24° 38' 27" W, 110.0 feet to the place of beginning and containing 143237.79 square feet or 3.29 acres of land.

Note: Coordinates are Texas State Plane NAD 83 Texas North Central Zone in US Survey Feet, with a Scale Factor of 0.99996852, Bearings are Grid and have a Theta Angle of -02° 29' 13".

Dated: March 13, 2007

STARK SURVEYING, LLC

By: _____

STATE OF TEXAS
JIMMIE ROBERT STARK
4950
REGISTERED PROFESSIONAL LAND SURVEYOR

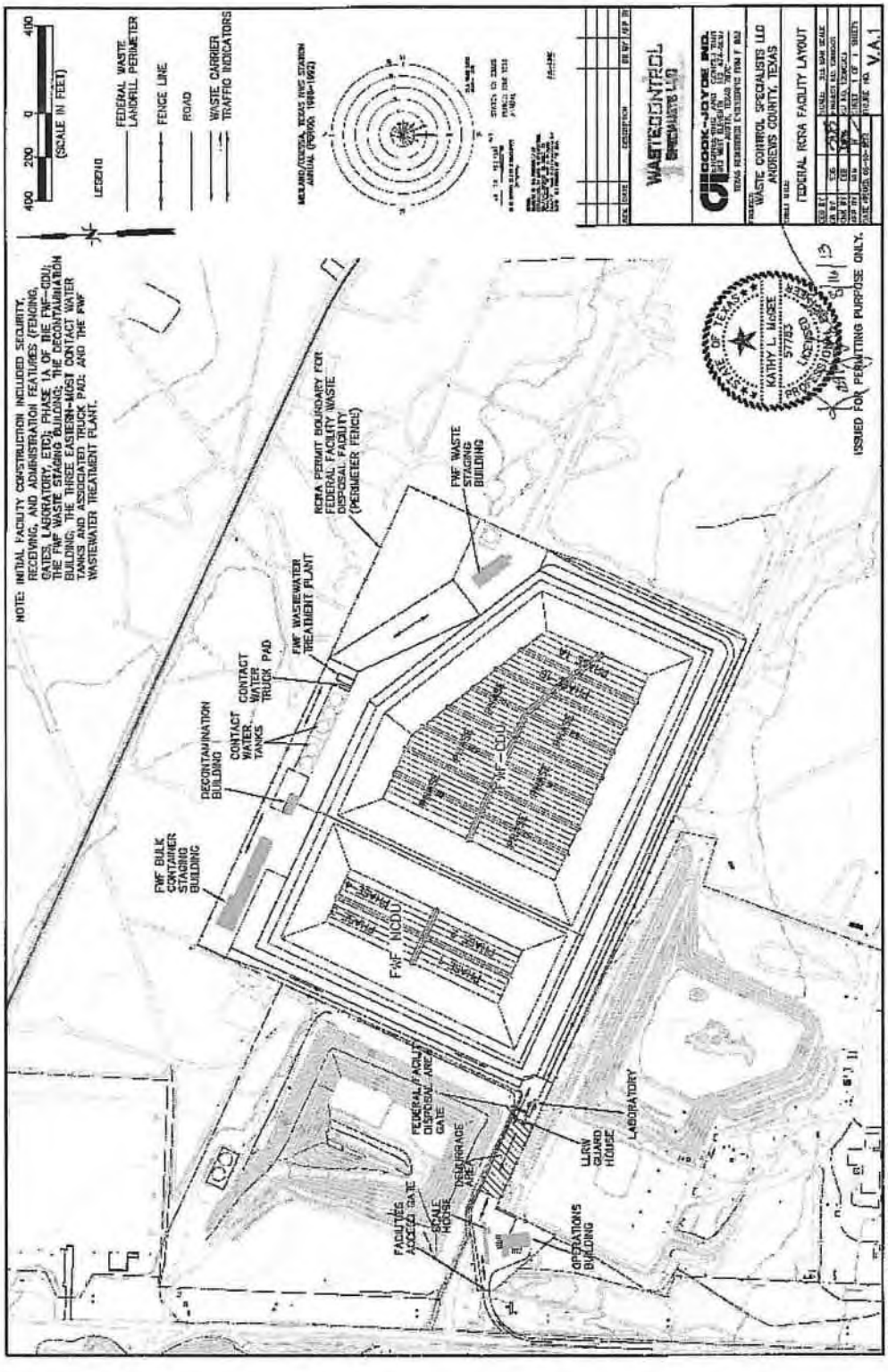
SS Job No. 80808
Cook-Joyce, Inc.

Jimmie Robert Stark
Registered Professional Land Surveyor

STARK SURVEYING, LLC
3309 N. "A" STREET, BLDG. 1-200
MIDLAND, TEXAS

Permit No. 50397
Attachment B
Sheet 1 of 1

SITE MAP



# List of Incorporated Application Materials

The following is a list of Part A and Part B Industrial and Hazardous Waste Application elements which are incorporated into all Industrial and Hazardous Waste permits by reference as per Provision I.B.

TCEQ PART A Application Form

I. General Information
- I.B. - Authorized Agents
- I.C. - Identify entity who will conduct facility operation.
- I.D. - Facility Ownership

III. Wastes and Waste Management
- III.C.1. - Location of Waste Management Units - Topographic Map extending one mile beyond facility.

TCEQ PART B Application Form

I. General Information
- I.A. - Applicant
- I.C. - Facility Location - Address
- I.F. - Wastewater and Stormwater Disposition

II. Facility Siting Criteria

III. Facility Management
- III.B. - Personnel Training Plan
- III.C. - Security
- III.D. - Inspection Schedule
- III.E. - Contingency Plan
- III.E.1. - Arrangements with Local Authorities
- III.E.2. - Emergency Coordinators List
- III.E.3. - Emergency Equipment list

IV. Wastes and Waste Analysis
- IV.B. - Table IV.B. - Waste Managed in Permitted Units
- IV.C. - Table IV.C. - Sampling and Analytical Methods
- IV.D. - Waste Analysis Plan

V. - Engineering Reports
- V.A.1. - General Information
- V.B. - Container Storage area engineering reports includes Table V.B. Container Storage Area Summary
- V.B.1. - Containment System
- V.G. - Landfill Engineering Report
- V.G.1. - Table V.G.1. Landfills
- V.G.2. - Describe the Landfill
- V.G.3. - Containment System - Leachate collection and liner systems.
- V.G.4. - Landfill MTR Plans and Specifications showing Conformity with 31 TAC§335.173
- V.G.5. - Site Development Plan - Methods used to deposit waste in landfill

V.G.6. - Landfill Run-on Control
V.G.7. - Landfill Run-off Control
V.G.8. - Wind Dispersal
V.G.9. - Liquid Waste Stabilization

VI. Geology Report
- VI.B.3. - Description of Current & Proposed Detection Monitoring System
- VI.B.3.a. - Complete Table VI.B.3.a. - Unit Ground-Water Monitoring System
- VI.B.3.b. - Complete Table VI.B.3.b. - Ground-Water Sample Analysis
- VI.B.3.c. - Proposed Detection Monitoring System
- VI.B.3.d. - Drawings Depicting current and proposed monitoring well design.
- VI.B.3.e. - Maps Showing:
  1) Monitor well locations
  2) Waste Management Area
  3) Property Boundary
  4) Point of Compliance
  5) Direction of Ground-Water Flow
- VI.B.3.f. - Proposed list of waste specific indicator parameters (Approved list should be included in permit)
- VI.B.3.g. - Describe proposed ground water-monitoring system
- VI.B.3.h. - Background Values
- VI.B.3.i. - Statistical Comparison Procedures to evaluate ground-water monitoring data
- VI.B.3.j. - Specify statistical method and process for determining whether constituent concentrations exceed background.

VII. - Closure and Post-Closure Care Plans
- VII.A. - Closure-complete Table VII.A. - Unit Closure Provide surface impoundment (non-liner) closure (if applicable) plans-other closure plans as applicable.
- VII.C.1. - Post-Closure Care Plan
- VII.C.2. - Facility contact during Post-Closure Period
- VII.E. - Table VII.E. Closure/Post Closure Cost Estimate

VIII. Financial Assurance
- VIII.A.3. - Liability Requirements
- VIII.B.1. - Applicant Financial Disclosure Statements
- VIII.C.3. - New Commercial Hazardous Waste Management Facilities - emergency response assurance

IX. - Releases from Solid Waste Units & Corrective Action (Not applicable)

X. Air Emission Standards
- X.A. - Process Vents and Equipment Leaks
- X.B - Office of Air Quality Addendum

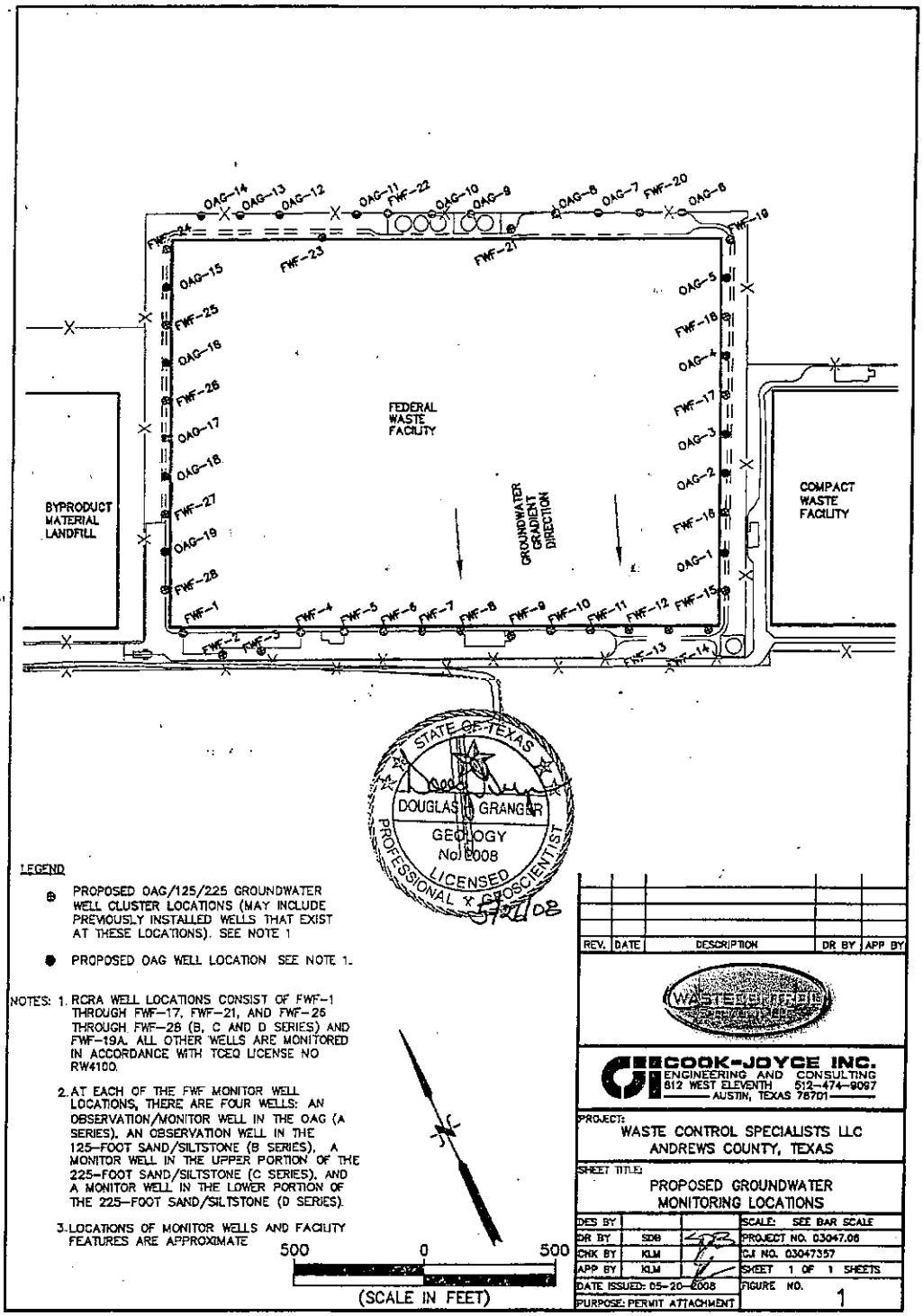
XII. Confidential Materials

Authorized Facility Units

| TCEQ Permit Unit No. | Unit Name | Unit Description | Capacity |
|---|---|---|---|
| 1 | Federal Waste Facility Container Staging Building | 60' x 120' building for storage of containerized waste | 22,140 cubic feet |
| 2 | Federal Waste Facility Bulk Waste Staging Building | 60' x 450' building for storage of bulk and containerized waste | 35,110 cubic feet |
| 3 | Federal Waste Facility Landfill | Landfill comprised of two separate landfill units: non-canister disposal unit and canister disposal unit | 4.9 million cubic yards |

Permit No. 50397
Attachment E
Sheet 1 of 1

# MAP OF GROUNDWATER MONITORING WELLS




LEGEND

⊕ PROPOSED OAG/125/225 GROUNDWATER WELL CLUSTER LOCATIONS (MAY INCLUDE PREVIOUSLY INSTALLED WELLS THAT EXIST AT THESE LOCATIONS). SEE NOTE 1

● PROPOSED OAG WELL LOCATION SEE NOTE 1.

NOTES:
1. RCRA WELL LOCATIONS CONSIST OF FWF-1 THROUGH FWF-17, FWF-21, AND FWF-26 THROUGH FWF-28 (B, C AND D SERIES) AND FWF-19A. ALL OTHER WELLS ARE MONITORED IN ACCORDANCE WITH TCEQ LICENSE NO RW4100.
2. AT EACH OF THE FWF MONITOR WELL LOCATIONS, THERE ARE FOUR WELLS: AN OBSERVATION/MONITOR WELL IN THE OAG (A SERIES), AN OBSERVATION WELL IN THE 125-FOOT SAND/SILTSTONE (B SERIES), A MONITOR WELL IN THE UPPER PORTION OF THE 225-FOOT SAND/SILTSTONE (C SERIES), AND A MONITOR WELL IN THE LOWER PORTION OF THE 225-FOOT SAND/SILTSTONE (D SERIES).
3. LOCATIONS OF MONITOR WELLS AND FACILITY FEATURES ARE APPROXIMATE

| REV. | DATE | DESCRIPTION | DR BY | APP BY |
|---|---|---|---|---|

WASTE CONTROL SPECIALISTS

COOK-JOYCE, INC.
ENGINEERING AND CONSULTING
812 WEST ELEVENTH 512-474-9097
AUSTIN, TEXAS 78701

PROJECT:
WASTE CONTROL SPECIALISTS LLC
ANDREWS COUNTY, TEXAS

SHEET TITLE:
PROPOSED GROUNDWATER MONITORING LOCATIONS

| | | | |
|---|---|---|---|
| DES BY | | | SCALE: SEE BAR SCALE |
| DR BY | SDB | | PROJECT NO. 03047.06 |
| CHK BY | KLM | | CJ NO. 03047357 |
| APP BY | KLM | | SHEET 1 OF 1 SHEETS |
| DATE ISSUED: 05-20-2008 | | | FIGURE NO. 1 |
| PURPOSE: PERMIT ATTACHMENT | | | |

**Attachment F - Well Design and Construction Specifications**

1. The Permittee shall use well drilling methods that minimize potential adverse effects on the quality of water samples withdrawn from the well, and that minimize or eliminate the introduction of foreign fluids into the borehole.

2. All wells constructed to meet the terms of this Permit shall be constructed such that the wells can be routinely sampled with a pump, bailer, or alternate sampling device. Piping associated with recovery wells should be fitted with sample ports or an acceptable alternative sampling method to facilitate sampling of the recovered ground water on a well by well basis.

3. Above the saturated zone the well casing may be two (2)-inch diameter or larger schedule 40 or 80 polyvinyl chloride (PVC) rigid pipe or stainless steel or polytetrafluoroethylene (PTFE or "teflon") or an approved alternate material. The PVC casing must be produced to National Sanitation Foundation standards for potable water applications and ASTM Standard F-480-02 (or most current revision), as applicable to casing for use in groundwater investigations. Solvent cementing compounds shall not be used to bond joints and all connections shall be flush-threaded or connected with stainless steel fasteners. In and below the saturated zone, the well casing shall be stainless steel or PTFE.

4. The Permittee shall replace any well that has deteriorated due to incompatibility of the casing material with the ground-water contaminants or due to any other factors. Replacement of the damaged well shall be completed within ninety (90) days of the date of the inspection that identified the deterioration.

5. Well casings and screens shall be pre-cleaned and prepackaged or cleaned prior to installation to remove residues that may be present in accordance with ASTM Standard F-480-02 (or most current revision). Well casings and screens made of fluorocarbon resins shall be cleaned by detergent washing.

6. For wells constructed after the date of issuance of this Permit, the screen length shall not exceed fifteen (15) feet within a given transmissive zone unless otherwise approved by the Executive Director. Screen lengths exceeding fifteen (15) feet may be installed in ground-water recovery or injection wells to optimize the ground-water remediation process in accordance with standard engineering practice.

7. The Permittee shall design and construct the intake portion of a well so as to allow water to flow into the well for sampling purposes and to minimize the passage of formation materials into the well during pumping. The intake portion of a well shall consist of commercially manufactured PVC, stainless steel or PTFE screen or approved alternate material. The annular space between the screen and the borehole shall be filled with clean siliceous granular material (i.e., filter pack) that has a proper size gradation to provide mechanical retention of the formation sand and silt. The well screen slot size shall be compatible with the filter pack size. The filter pack should extend no more than three (3) feet above the well screen. A silt trap, no greater than one (1) foot in length, may be added to the bottom of the well screen to collect any silt that may enter the well. The bottom of the well casing shall be capped with PVC, PTFE or stainless steel or approved alternate material.

Ground-water recovery and injection wells shall be designed in accordance with standard industry

practice to ensure adequate well production and to accommodate ancillary equipment. Silt traps exceeding one (1) foot may be utilized to accommodate ancillary equipment. Well heads shall be fitted with mechanical wellseals, or equivalent, to prevent entry of surface water or debris.

8. A minimum of two (2) feet of pellet or granular bentonite shall immediately overlie the filter pack in the annular space between the well casing and borehole. Where the saturated zone extends above the filter pack, pellet or granular bentonite shall be used to seal the annulus. The bentonite shall be allowed to settle and hydrate for a sufficient amount of time prior to placement of grout in the annular space. Above the minimum two (2)-foot thick bentonite seal, the annular space shall be sealed with a cement/bentonite grout mixture. The grout shall be placed in the annular space by means of a tremie pipe or pressure grouting methods equivalent to tremie grouting standards.

   The cement/bentonite grout mixture or TCEQ approved alternative grout mixture shall fill the annular space to within two (2) feet of the surface. A suitable amount of time shall be allowed for settling to occur. The annular space shall be sealed with concrete, blending into a cement apron at the surface that extends at least two (2) feet from the outer edge of the monitor well borehole for above-ground completions. Alternative annular-space seal material may be proposed with justification and must be approved by the Executive Director prior to installation.

   In cases where flush-to-ground completions are unavoidable, a protective structure such as a utility vault or meter box should be installed around the well casing and the concrete pad design should prevent infiltration of water into the vault. In addition, the Permittee must ensure that 1) the well/cap juncture is watertight; 2) the bond between the cement surface seal and the protective structure is watertight; and 3) the protective structure with a steel lid or manhole cover has a rubber seal or gasket.

9. Water added as a drilling fluid to a well shall contain no bacteriological or chemical constituents that could interfere with the formation or with the chemical constituents being monitored. For ground-water recovery and injection wells, drilling fluids containing freshwater and treatment agents may be utilized in accordance with standard industry practice to facilitate proper well installation. In these cases, the water and agents added should be chemically analyzed to evaluate their potential impact on in-situ water quality and to assess the potential for formation damage. All such additives shall be removed to the extent practicable during well development.

10. Upon completion of installation of a well, the well must be developed to remove any fluids used during well drilling and to remove fines from the formation to provide a particulate-free discharge to the extent achievable by accepted completion methods and by commercially available well screens. Development shall be accomplished by reversing flow direction, surging the well or by air lift procedures. No fluids other than formation water shall be added during development of a well unless the aquifer to be screened is a low-yielding water-bearing aquifer. In these cases, the water to be added should be chemically analyzed to evaluate its potential impact on in-situ water quality, and to assess the potential for formation damage.

    For recovery and injection wells, well development methods may be utilized in accordance with standard industry practice to remove fines and maximize well efficiency and specific capacity. Addition of freshwater and treatment agents may be utilized during well development or re-development to remove drilling fluids, inorganic scale or bacterial slime. In these cases, the water and agents added should be chemically analyzed to evaluate their potential impact on in-situ water quality and to assess the potential for formation damage. All such additives shall be removed to the extent

practicable during well development.

11. Each well shall be secured and/or designed to maintain the integrity of the well borehole and ground water.

12. The Permittee shall protect the above-ground portion of the well by bumper guards and/or metal outer casing protection.

13. Copies of drilling and construction details demonstrating compliance with the items of this provision shall be kept on site. This record shall include the following information:

. name/number of well (well designation);
. intended use of the well(sampling, recovery, etc.);
. date/time of construction;
. drilling method and drilling fluid used;
. well location (± 0.5 ft.);
. bore hole diameter and well casing diameter;
. well depth (± 0.1 ft.);
. drilling and lithologic logs;
. depth to first saturated zone;
. casing materials;
. screen materials and design;
. casing and screen joint type;
. screen slot size/length;
. filter pack material/size;
. filter pack volume (how many bags, buckets, etc.);
. filter pack placement method;
. sealant materials;
. sealant volume (how many bags, buckets, etc.);
. sealant placement method;
. surface seal design/construction;
. well development procedure;
. type of protective well cap;
. ground surface elevation (± 0.01 ft. MSL);
. top of casing elevation (± 0.01 ft. MSL); and,
. detailed drawing of well (include dimensions).

14. The Permittee shall complete construction or abandonment and plugging of each well in accordance with the requirements of this Permit and 16 TAC 76.1000 through 76.1009 and shall certify such proper construction or abandonment within sixty (60) days of installation or abandonment. If the Permittee installs any additional or replacement wells, well completion logs for each well shall be submitted within sixty (60) days of well completion and development in accordance with 16 TAC Chapter 76. Certification of each well shall be submitted within sixty (60) days of installation for an individual well project or within sixty (60) days from the date of completion of a multiple well installation project. The certification shall be prepared by a qualified geologist or geotechnical engineer. Each well certification shall be accompanied by a certification report, including an accurate log of the soil boring, which thoroughly describes and depicts the location, elevations, material specifications, construction details, and soil conditions encountered in the boring for the well. A copy

of the certification and certification report shall be kept on-site, and a second copy shall be submitted to the Executive Director. Required certification shall be in the following form:

This is to certify that installation (or abandonment and plugging) of the following facility components authorized or required by TCEQ Permit No. ***** has been completed, and that construction (or plugging) of said components has been performed in accordance with and in compliance with the design and construction specifications of Permit No. *****." (Description of facility components with reference to applicable permit provisions).

15. The Permittee shall clearly mark and maintain the well number on each well at the site.

16. The Permittee shall measure and keep a record of the elevation of the top of each well casing in feet above mean sea level to the nearest 0.01 foot and permanently mark the measuring point on the well. The Permittee shall compare old and new elevations from previously surveyed wells and determine a frequency of surveying not to exceed five (5) year intervals.

17. Wells may be replaced at any time the Permittee or Executive Director determines that the well integrity or materials of construction or well placement no longer enable the well to yield samples representative of ground-water quality.

18. The Permittee shall plug soil test borings and wells removed from service after issuance of the Compliance Plan with a cement/bentonite grout mixture so as to prevent the preferential migration of fluids in the area of the borehole. Certification of each plugging shall be reported in accordance with Provision 14 of this attachment to this permit. The plugging of wells shall be in accordance with 16 TAC § 76.1000 through § 76.1009 dealing with Well Drilling, Completion, Capping and Plugging.

19. A well's screened interval shall be appropriately designed and installed to meet the well's specific objective (i.e., either DNAPL, LNAPL, both, or other objective of the well). All wells designed to detect, monitor, or recover DNAPL must be drilled to intercept the bottom confining layer of the aquifer. The screened interval to detect DNAPL should extend from the top of the lower confining layer to above the portion of the aquifer saturated with DNAPL. The screened interval for all wells designed to detect, monitor, or recover LNAPL must extend high enough into the vadose zone to provide for fluctuations in the seasonal water table. In addition, the sandpacks for the recovery or monitoring well's screened interval shall be coarser than surrounding media to ensure the movement of NAPL to the well.

# Texas Commission on Environmental Quality

Class 3 Permit Modification to

Hazardous Waste Permit No. 50397

Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units.) 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 (TCEQ).

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.

Continuation Sheet 23 of 58

Provision V.G.1, Landfills

1. The permittee may dispose of a total volume of 4,000,000 cubic yards of hazardous waste in one permitted landfill. The landfill cells shall meet the specifications listed in Table V.G.1. Landfills. The permittee is authorized to operate the permitted landfill for waste disposal subject to the limitations contained herein.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

Continuation Sheet 48 of 58

Provision VII.B.1. 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 $49,723,133 (2007 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. 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:

      At least sixty (60) days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1. - Permitted Unit Closure Cost Summary, the permittee shall provide the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit financial assurance documentation.

   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.

Table III.D. Inspection Schedule

Replace Table III.D. with revised Table III.D. (attached).

Table IV.B. Wastes Managed in Permitted Units

Replace Table IV.B. with revised Table IV.B. (attached).

Table IV.C. Sampling and Analytical Methods

Replace Table IV.C. with revised Table IV.C. (attached).

Table V.B. Container Storage Areas

Replace Table V.B. with revised Table IV.C. (attached).

Table V.G.1. Landfills

Replace Table V.G.1. with revised Table. V.G.1. (attached).

Table V.G.3. Landfill Liner System

Replace Table V.G.3. with revised Table. V.G.3. (attached).

Table V.G.4. Landfill Leachate Collection System

Replace Table V.G.4. with revised Table. V.G.4. (attached).

Table VI.B.3.b. Unit Groundwater Detection Monitoring System

Replace Table VI.B.3.b. with revised Table. VI.B.3.b. (attached).

Table VI.B.3.c. Groundwater Sample Analysis

Replace Table VI.B.3.c. with revised Table. VI.B.3.c. (attached).

Table VII.E.1. Permitted Unit Closure Cost Summary

Replace Table VII.E.1. with revised Table. VII.E.1. (attached).

This Class 3 modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: April 20, 2012

For the Commission

# Texas Commission on Environmental Quality

Class 1 Permit Modification

to

Hazardous Waste Permit No. 50397

Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List) 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 (TCEQ).

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.

# Texas Commission on Environmental Quality

Class 1[1] Permit Modification

to

Hazardous Waste Permit No. 50397

Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report) 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 (TCEQ).

This Class 1[1] Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: June 22, 2012

For the Commission

# Texas Commission on Environmental Quality

Class 1[1] Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount) 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.

This Class 1[1] Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: August 29, 2012

For the Commission

# Texas Commission on Environmental Quality

Class 2 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation) 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.

Table IV.B. Wastes Managed in Permitted Units

Replace Table IV.B. with revised Table IV.B. (attached).

Table IV.C. Sampling and Analytical Methods

Replace Table IV.C. with revised Table IV.C. (attached).

This Class 2 Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: November 30, 2012

For the Commission

# Texas Commission on Environmental Quality

Class 2 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), November 1, 2012 (Class 1 modification to revise the name of the facility manager and 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.

This Class 1 Permit Modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

Class 2 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class $1^1$ modification to revise Section V., Engineering Report), August 1, 2012 (Class $1^1$ modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal) 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.

Table IV.C. Sampling and Analytical Methods

Replace Table IV.C. with revised Table IV.C. (attached).

This Class 2 Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: January 18, 2013

For the Commission

# Texas Commission on Environmental Quality

Class 1 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Cover Sheet:

EPA I.D. Number is corrected to TXR000075788

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan); November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal); February 6, 2013 (Class 1 modification to revise 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.

This Class 1 Permit Modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

Class 1[1] Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan); November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal); February 6, 2013 (Class 1[1] modification to revise the contingency plan); April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance 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.

Issued Date: May 14, 2013

For the Commission

# Texas Commission on Environmental Quality

Class 1 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.) 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.

# Texas Commission on Environmental Quality

Class 2 Permit Modification
to
Hazardous Waste Permit No. 50397
Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response 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.

Table III.E.3. Emergency Equipment

Replace Table III.E.3. with revised Table III.E.3. (attached).

This Class 2 Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: October 28, 2013

For the Commission

# Texas Commission on Environmental Quality

**Class 1 Permit Modification**
**to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the emergency response plan), November 20, 2013 (Class 1 modification to revise the contingency plan and Provision I.B) 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.

# Texas Commission on Environmental Quality

**Class 1[1] Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance 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.

Issue Date: March 31, 2014

For the Commission

# Texas Commission on Environmental Quality

**Class 3 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance 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.

Continuation Sheet 23 of 58

Revise Provision V.C. as follows:

V.C. Tanks and Tank Systems

1. The permitted tank units and their approved waste types are shown in Table V.C. - Tanks and Tank Systems. 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 containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within twenty-four (24) hours.

5. The permittee shall report to the Executive Director within twenty-four (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 thirty (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 thirty (30) day submittal period expires;

   d. 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 (7) days of returning the tank system to use. [40 CFR 264.196(f)]

Continuation Sheet 48 of 58

Revise Provision VII.B. as follows:

VII.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 $54,684,141 (2012 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. 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:

      At least sixty (60) days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1. - Permitted Unit Closure Cost Summary, the permittee shall provide the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit financial assurance documentation.

   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.

3. The financial assurance for any closure or post-closure care activity required under this permit may be satisfied, in whole or in part, by the maintenance of financial assurance for that activity pursuant to the requirements of other permits and/or licenses issued by the TCEQ, upon demonstration of equivalency to the Executive Director by the Permittee. To demonstrate equivalency of financial assurance between this permit and any other permit or license, the permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved financial assurance, in accordance with 30 TAC Section 305.69.

Continuation Sheet 49 of 58

Revise Provision VII.C. as follows:

VII.C. Storage and Processing Unit Closure Requirements

The permittee shall close the storage and processing units identified as TCEQ Permit Unit Nos. 1, 2 and 4 through 15 in accordance with the approved Closure Plans, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), and the Texas Risk Reduction Program of 30 TAC Chapter 350.

Table III.D. Inspection Schedule

Replace Table III.D. with revised Table III.D. (attached).

Table V.C. Tanks and Tank Systems

Add Table V.C. (attached).

Table VI.B.3.b. Unit Groundwater Detection Monitoring System

Replace Table VI.B.3.b. with revised Table VI.B.3.b. (attached).

Table VII.E.1. Permitted Unit Closure Cost Summary

Replace Table VII.E.1. with revised Table VII.E.1. (attached).

Replace Attachment B with revised Attachment B (attached).

This Class 3 modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: June 11, 2014

For the Commission

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), 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.

Continuation Sheet 23 of 58

Revise Provision V.C. as follows:

V.C. Tanks and Tank Systems

1. The permitted tank units and their approved waste types are shown in Table V.C. - Tanks and Tank Systems. 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 containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within twenty-four (24) hours.

5. The permittee shall report to the Executive Director within twenty-four (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 thirty (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 thirty (30) day submittal period expires;

   d. 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 (7) days of returning the tank system to use. [40 CFR 264.196(f)]

Continuation Sheet 48 of 58

Revise Provision VII.B. as follows:

VII.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 $54,684,141 (2012 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. 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:

      At least sixty (60) days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1. - Permitted Unit Closure Cost Summary, the permittee shall provide the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit financial assurance documentation.

   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.

3. The financial assurance for any closure or post-closure care activity required under this permit may be satisfied, in whole or in part, by the maintenance of financial assurance for that activity pursuant to the requirements of other permits and/or licenses issued by the TCEQ, upon demonstration of equivalency to the Executive Director by the Permittee. To demonstrate equivalency of financial assurance between this permit and any other permit or license, the permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved financial assurance, in accordance with 30 TAC Section 305.69.

Continuation Sheet 49 of 58

Revise Provision VII.C. as follows:

VII.C. Storage and Processing Unit Closure Requirements

The permittee shall close the storage and processing units identified as TCEQ Permit Unit Nos. 1, 2 and 4 through 15 in accordance with the approved Closure Plans, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), and the Texas Risk Reduction Program of 30 TAC Chapter 350.

Table III.D. Inspection Schedule

Replace Table III.D. with revised Table III.D. (attached).

Table V.C. Tanks and Tank Systems

Add Table V.C. (attached).

Table VI.B.3.b. Unit Groundwater Detection Monitoring System

Replace Table VI.B.3.b. with revised Table VI.B.3.b. (attached).

Table VII.E.1. Permitted Unit Closure Cost Summary

Replace Table VII.E.1. with revised Table VII.E.1. (attached).

Replace Attachment B with revised Attachment B (attached).

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.) 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 2014 (Class 1 modification to revise the contingency plan and Provision I.B.) 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), January 27, 2016 (revise the Contingency Plan and Provision I.B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List) 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

## Class 1 Permit Modification to
## Hazardous Waste Permit No. 50397
## Waste Control Specialists LLC – Andrews County, Texas

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), January 27, 2016 (revise the Contingency Plan and Provision I.B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List), May 10, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors) 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC - Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 11 modification to revise Section V., Engineering Report), August 1, 2012 (Class 11 modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 11 modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 11 modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), January 27, 2016 (revise the Contingency Plan and Provision I.B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List), May 10, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors), May 17, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List) 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.

This Class 1 modification is part of Permit No. 50397 and should be attached thereto.

# Texas Commission on Environmental Quality

**Class 1[1] Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), January 27, 2016 (revise the Contingency Plan and Provision I.B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List), May 10, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors), May 17, 2016 (revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), and October 11, 2016 (Class 1[1] modification to update the Waste Acceptance Plan (Revision 9) of the Waste Analysis 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.

This Class 1[1] Permit Modification is part of Permit No. 50397 and should be attached thereto.

Issued Date: November 9, 2016

For the Commission

# Texas Commission on Environmental Quality

**Class 1 Permit Modification to**
**Hazardous Waste Permit No. 50397**
**Waste Control Specialists LLC – Andrews County, Texas**

Permit No. 50397 is hereby modified as follows:

Continuation Sheet 7 of 58

Provision I.B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated May 24, 2006, July 20, 2006, June 22, 2007, November 5, 2007, February 1, 2008 May 24, 2006, December 22, 2010, February 25, 2011 and September 30, 2011 (Class 3 modification to extend the construction schedule for one landfill and two (2) container storage areas (CSA) for more than six months (up to four years); relocate the two container storage areas; modify the landfill configuration and leachate collection system design; revise the Construction Quality Assurance Plan, the Waste Analysis Plan, and the Closure Plan; revise the number and location of groundwater monitoring wells; revise the groundwater sampling procedures; and to add an impermeable interior coating/lining compatible with waste to the container storage units), April 27, 2012 (Class 1 modification to revise Table III.E.2, Emergency Coordinators List), May 2, 2012 (Class 1[1] modification to revise Section V., Engineering Report), August 1, 2012 (Class 1[1] modification to revise the initial FA amount), September 6, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow macroencapsulation), September 13, 2012 and November 1, 2012 (Class 2 modification to revise the Waste Analysis Plan and Engineering Report to allow codisposal), November 1, 2012 (Class 1 modification to revise the name of the facility manager and contingency plan), February 6, 2013 (Class 1 modification to revise the contingency plan), April 11, 2013 (Class 1[1] modification to revise the Landfill Operations Plan, Waste Analysis Plan, and Waste Acceptance Plan), May 31, 2013 (Class 1 modification to revise the contingency plan and Provision I.B.), August 13, 2013 (Class 2 modification to revise the consolidated emergency response plan), August 16,2013 (Class 3 modification to add the leachate and contact water storage tanks and wastewater treatment system tanks to the permit), November 20, 2013 (Class 1 modification to revise the emergency coordinator), January 14, 2014 (Class 1[1] modification to revise the Waste Acceptance Plan), June 10, 2014 (Class 1 modification to revise the contingency plan, revise Table VII.E.1., update Attachments E, F, and H and correct omissions), July 31, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), October 9, 2014 (Class 1 modification to revise the contingency plan and Provision I.B.), June 1, 2015 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), July 22, 2015 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), January 27, 2016 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Emergency Coordinators List and Alternate Emergency Coordinators List), May 10, 2016 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List and correct typographical errors), May 17, 2016 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), October 11, 2016 (Class 1[1] modification to update the Waste Acceptance Plan (Revision 9) of the Waste Analysis Plan), December 8, 2016 (Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators

List and correct typographical errors) and, February 2, 2107(Class 1 modification to revise the Contingency Plan and Provision I.B. to change the Alternate Emergency Coordinators List), 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.

This Class 1 Permit Modification is part of Permit No. 50397 and should be attached thereto.