



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

Texas Commission on  
Environmental Quality  
Austin, Texas

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

Name of Permittee: Waste Control Specialists LLC  
P.O. Box 1129  
Andrews, Texas 79714

Site Owner: Waste Control Specialists LLC  
P.O. Box 1129  
Andrews, Texas 79714

Registered Agent for Service: Corporation Service Company  
800 Brazos  
Austin, Texas 78701

Classification of Site: Hazardous and Nonhazardous Class 1, Class 2, and Class 3  
industrial solid waste, off-site storage, processing, and disposal,  
commercial facility.

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

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

ISSUED: **OCT 05 2005**

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

  
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For The Commission

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I. FACILITY DESCRIPTIONA. Size and Location of Site

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

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

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[I.B cont]

Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency Coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised September 16, 2013, December 4, 2013, and January 10, 2014 (Class 3 Modification to reduce the surface area of the landfill) March 26, 2014 (Class 1<sup>1</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3.-emergency equipment in the Contingency Plan), September 3, 2015, and revised September 11, 2015 (Class 1<sup>1</sup> Modification to add metal enclosure over Bin Storage Area (BSA) -2 and BSA-3 of permitted BSU-1), January 27, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan) May 9, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and May 17, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and December 8, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

## II. GENERAL FACILITY STANDARDS

### A. Standard Permit Conditions

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

#### I. Modification of Permitted Facilities

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[II.A.1 cont]

The facility units and operational methods authorized are limited to those described herein and by the application submittals identified in 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 Resource Conservation and Recovery Act (RCRA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [30 TAC Section 305.142]

3. Severability

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

4. Definitions

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

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

5. Permit Expiration

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

[II.A.5 cont]

terminate upon the effective denial of said application.

6. Certification Requirements for a new facility, the permittee may not commence storage, processing, or disposal of solid waste; and for a facility being modified, the permittee may not process, store or dispose of solid waste in the modified portion of the facility, except as provided in 30 TAC Section 305.69 (relating to Solid Waste Permit Modification at the Request of the Permittee) until the following has been accomplished [30 TAC Section 305.144]:
  - a. The permittee has submitted to the Executive Director and the local Regional Office of the TCEQ, by certified mail or hand delivery, a letter signed by the permittee, and signed and sealed by a Texas licensed Professional Engineer stating that the facility has been constructed or modified in compliance with the permit. If the certification is being provided to document proper closure of a permitted unit, or to certify installation or repair of a tank system, then the certification must be signed and sealed by an independent Texas licensed Professional Engineer.

Required certification shall be in the following form:

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

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

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

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

\* 7. Land Disposal Restrictions

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

8. Dust Suppression

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

9. Permit Reopener

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

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[II.A.9 cont]

Commission.

10. Texas Coastal Management Program

Reserved

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

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

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)]

13. Hazardous Waste Combustion Facility Provision

Reserved

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 an

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[II.B.1.b cont]

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

[II.B.2. cont.)]

## 3. Retention of Application Data

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

## 4. Reporting of Noncompliance

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

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

## 5. Twenty-Four Hour Reporting

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

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

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[II.B.5. cont]

- b. Any information of a release or discharge of solid waste, or of a fire or explosion which could threaten the environment or human health or safety, outside the facility. The description of the occurrence and its cause shall include:
- (1) name, address, and telephone number of the owner or operator;
  - (2) name, address, and telephone number of the facility;
  - (3) date, time, and type of incident;
  - (4) name and quantity of material(s) involved;
  - (5) the extent of injuries, if any;
  - (6) an assessment of actual or potential hazards to the environment and human health or safety outside the facility, where this is applicable; and
  - (7) estimated quantity and disposition of recovered material that resulted from the incident.

6. Notice Waiver

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

7. Biennial Report

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

8. Pollution Prevention

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

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[II.B.8. cont]

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

## 9. Waste Minimization

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

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

## 10. Annual Detection Monitoring Report

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

## 11. Manifest Discrepancy Report

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

## 12. Unmanifested Waste Report

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

## 13. Monthly Summary

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

[II.B.13.cont]

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

C. Incorporated Regulatory Requirements

1. State Regulations

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

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

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[II.C.1 cont]

- 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

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

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

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[II.C.2. cont]

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

### III. FACILITY MANAGEMENT

#### A. Operation of Facility

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

#### B. Personnel Training

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

#### C. Security

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

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[III.C.2. cont]

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

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.
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

[III.E.4. cont]

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

5. Preparedness and Prevention

- a. At a minimum, the permittee shall equip the facility as set forth in 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.

F. Special Permit Conditions

1. Use of Leachate as Dust Suppressant:

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

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

## [III.F.1.a cont]

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

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

[III. F.f cont.]

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

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

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

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

IV. WASTES AND WASTE ANALYSIS

A. Waste Analysis Plan

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

B. Authorized Wastes

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

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

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

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

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

[IV.B.3. cont]

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

## [IV.B.4. cont]

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

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[IV.B.7. cont]

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

C. Sampling and Analytical Methods

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

V. AUTHORIZED UNITS AND OPERATIONS

A. Authorized Units

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

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[V.A.3 cont ]

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

- 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 in 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 and processing subject to the limitations contained herein.
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

[V.C.4. cont]

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

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

D. Surface Impoundments

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

[V.D.I.a cont]

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

- b. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart K – Surface Impoundment and the Part B application for construction, installation, and operation of the surface impoundment.
- c. The permittee shall inspect the surface impoundment in accordance with the frequency listed in Table III.D. – Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR Part 264 Subpart K.
- d. The permittee shall comply with the applicable requirements specified in the Wastewater Permit WQ0004948000 and Radioactive Material License R04100 for construction, installation, and operation of the surface impoundment.

2. Action Leakage Rate and Response Action Plan [40 CFR 264.222 and 264.223]

- a. The permittee shall establish an Action Leakage Rate (ALR) pursuant to 40 CFR 264.222. The permittee shall determine if the ALR, given in gallons per acre per day, for each sump has been exceeded by converting the weekly or monthly flow rate from the monitoring data obtained to an average daily flow rate (gallons per acre per day) for each sump. The permittee shall calculate the average daily flow rate for each surface impoundment sump on a weekly basis during the active life and closure period. The ALR for the sumps in each landfill cell is given on Table V.D. – Surface Impoundments.
- b. Prior to receipt of waste, the permittee shall have in place an approved Response Action Plan (RAP) which meets the requirements of 40 CFR 264.223. The RAP shall set forth the actions to be taken if the ALR is exceeded.

E. Waste Piles

Reserved

F. Land Treatment Units

Reserved

G. Landfills

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

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

2. Test Fill

- a. Prior to construction of any new landfill or a 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  $1 \times 10^{-7}$  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.

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 postconstruction quality assurance inspections and testing performed;
  - (2) A summary of material specifications and construction specifications, methodology and equipment necessary to construct a full-scale compacted clay liner or cover achieving a field hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec or less;

[V.G.2.b. cont]

- (3) Complete documentation, including a summary of raw data, detailing how the field hydraulic conductivity of the compacted test fill clay liner was measured and calculated; and
- (4) The qualifications of the engineer certifying proper test 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.6. - Landfill Liner System and Table V.G.7. - Landfill Leachate Collection System.

#### b. Soil Liner

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

- (1) Materials for all constructed clay-rich structures shall be excavated, broken down, hydrated to the proper moisture content (if necessary) and then recompacted in loose lifts not less than 6.0 inches nor greater than 9.0 inches in thickness. If the soils are significantly below optimum moisture content (>3% below optimum) the maximum clod size of the soils will be reduced to less than 2 inches so that hydration can occur uniformly. Each lift shall be scarified to a depth no greater than 2.0 inches nor less than 0.5 inches prior to placement of the following lift;
- (2) Compaction shall be to at least 95% Standard Proctor Density at or slightly above optimum moisture content. The permittee shall compact each clay-rich structure with a sheepfoot-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 sheepfoot-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 pounds per square inch (psi) shall be substituted;

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

c. Geomembrane Liner

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

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.
  - (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 34°F.
- (12) Field seaming shall not be done if the ambient temperature is below 50°F, but greater than 34°F, unless the geomembrane is preheated above that temperature by either the sun or a hot air device.
- (13) Prior to field seaming the geomembrane each day, all personnel responsible for seaming shall prepare a test seam of at least two (2) feet in length. These test seams shall be tested for adequate strength (seam peel stress equal to 100 percent of the tensile strength of the geomembrane used) prior to field seaming the geomembrane. All test seaming shall be performed under the same conditions as production seaming. Any problems with equipment or test seam strength shall be corrected prior to field seaming the geomembrane.
- (14) All seam and nonseam areas of the geomembrane shall be visually inspected for signs of defective seams, blisters, punctures, undispersed raw materials, and any sign of contamination by foreign matter. Any problems discovered shall be marked, repaired, and retested or re-evaluated. The geomembrane surface shall be clean

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.
- (19) Prior to installing the 60 mil and 80 mil thickness geomembrane at the transition of landfill cells G and H, the permittee shall perform sufficient number of tests to evaluate the tensile strength and other properties of the geomembranes at the transition point. Samples of the geomembranes shall be destructively tested prior to installation. The laboratory and/or field testing of the tie-in samples of geomembrane of different thicknesses shall be evaluated to demonstrate that the integrity of the liner system at the transition point will not be compromised. This information will be submitted as part of the Construction Certification Report as required in Provision V.G.3.f. This is in addition to any other requirements, specified in the application, incorporated into this permit by reference.

d. Leachate Collection/Leak Detection System (If Applicable)

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

[V.G.3.d. cont]

- (2) Hydraulic conductivity measurements expressed in units of cm/sec at a frequency of at least 4 representative samples collected from each compacted drainage layer.
- (3) Drainage layer thickness determinations at a rate of at least three (3) determination by appropriate surveying techniques per every cell or 2,500 square feet of drainage layer installed.
- (4) Drainage pipe slope determinations at a rate of at least one determination by appropriate surveying techniques per every 20 feet of drainage pipe and an overall visual inspection of all pipes for sagging and improper bedding.

e. Run-On and Run-Off Control Systems

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

f. The permittee shall submit certification of proper landfill construction prior to the placement of waste in a landfill or landfill cell. The certification shall be submitted in accordance with Provision II.A.6. Within thirty (30) days of submittal of such certification, the permittee shall submit a certification report which contains the results of all tests conducted. The permittee shall conduct any tests, inspections, or measurements that are deemed necessary in the judgement of the registered professional engineer supervising the cell construction, for the engineer to certify that the landfill cell has been constructed in conformance with the design and construction specifications of this permit. The certification report shall, at a minimum, contain the following drawings and test results:

- (1) Scaled plan-view and cross-sectional drawings that accurately depict the areal boundaries and dimensions of the cell; separation distance(s) of the cell from the property boundary; minimum, maximum, and representative elevations of the excavation of the cell; minimum, maximum, and representative elevations of the cell as component parts of the liner system; location, site, volume, materials of construction, and slope, as applicable, of all soil and synthetic liners and leachate collection and leak detection system components; and
- (2) For the soil liner, geomembrane liner, and leachate collection/leak detection system; all observations, tests, and analyses required to

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 twenty four (24) inches and compacted sufficiently to minimize settlement of landfilled waste;
- c. In areas of the landfill where placement of final cover will not occur when the wastes reach final grade elevation, the permittee shall install an interim cover of at least one foot of caliche and/or red bed clay soil when the wastes reach final grade elevation.[V.G.4.]
- d. All collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems shall be maintained and must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system. [30 TAC Section 335.173(i)];
- e. All precipitation that collects in an active landfill cell shall be managed as contaminated water and disposed of accordingly at an authorized on-site waste management unit or at an authorized off-site facility;
- f. While a landfill cell is in operation, it must be inspected at least weekly and after storm events in accordance with 40 CFR 264.303(b);
- g. The permittee shall remove leachate from collection sumps as often as necessary to ensure that the leachate depth in the leachate collection/leak detection system is always less than the thickness of the drainage material and never exceeds 12 inches;
- h. The permittee shall inspect each leak detection system and record the amount of liquids removed from each leak detection system sump at least

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[V.G.4.h. cont]

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

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

- j. Control of Wind Dispersal of Particulate Matter

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

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

- l. Requirements for Ignitable, Reactive or Incompatible Wastes

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

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

- m. Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026, and F027

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

n. Stabilization of Liquid Wastes and LDR Wastes

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

place hazardous waste liquids or hazardous waste containing free liquids, whether or not sorbents have been added (except for non hazardous wastes or certain containerized wastes as allowed under Provision V.G.4.p.) in landfill cells. Free liquids are liquids which readily separate from the solid portion of a waste when the waste mixture is at a temperature above 32\_F and ambient pressure. With the exception of liquids used for dust suppression in accordance with Provision V.G.4.j. and Provision III.F.1., non-hazardous liquid wastes or non-hazardous wastes containing free liquids, shall be solidified using a non-biodegradable sorbent material or chemically stabilized using a stabilization treatment agent prior to landfill disposal.

(2) All bulk and containerized loads shall be inspected for free liquids by conducting visual inspections to assure compliance with Provision V.G.4.n.(1). If visual inspection indicates the presence of free liquids in wastes that are to be landfilled in bulk or non-containerized form, the waste shipment shall not be placed in the landfill until no free liquids remain, as determined by the Paint Filter Liquids Test (Test Method 9095) as described in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA Publication No. SW-846).

(3) If the inspection required in Provision V.G.4.n.(2). indicates that a bulk or non-containerized hazardous waste contains free liquids, the waste shall be treated prior to landfilling using a treatment technology that does not solely involve the use of a material that functions primarily as a sorbent. In order to verify that chemical stabilization has taken place, a representative sample of the each treated portion of the waste shall be collected from each batch of solidified and/or stabilized waste. Each sample shall be tested by an appropriate procedure as described in applicable Provisions V.G.4.n.4. through V.G.4.n.(7) in order to verify that chemical stabilization has taken place.

(4) For chemical stabilization processes based solely on a pozzolonic reaction between the aqueous portion of a waste and an appropriate

admixture ratio of calcium hydroxide (e.g. lime) and silicates (e.g. fly ash), an unconfined compressive strength test shall be used to verify successful stabilization. Each sample taken in accordance with Provision V.G.4.n.(3) to be tested in accordance with this provision shall be prepared into a remolded specimen as described in Section 4.3 of ASTM Test Method D-2166 (or most current revision). After curing for not more than 7 days, the unconfined compressive

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

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

[V.G.4.n cont]

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

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

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

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

- b. The permittee shall use appropriate treatment methods for waste streams requiring treatment to meet the 40 CFR Part 268 treatment standards. Successful treatment is said to be achieved if post-treatment analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268. The permittee shall then sample and analyze the treated waste at least once a year or when the generator notification indicates potential changes in the waste characteristics. The frequency of testing shall be increased to one in every ten shipments for highly variable waste streams.

(9) For liquids or waste containing free liquids subject to LDR's, the permittee shall comply with the applicable permit Provisions V.G.4.n.(2). through V.G.4.n.(8).

o. Special Requirements for Containers

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

p. Special Requirements for the Disposal of Lab Packs:

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

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

[V.G.4.p cont]

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

q. Waste to Liner Compatibility

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

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

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

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

6. Cell Location Survey

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

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

[V. cont.]

H. Incinerators

Reserved

I. Boilers/Industrial Furnaces

Reserved

J. Drip Pads

Reserved

K. Miscellaneous Units

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

[V.K.2. cont.]

- e. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart X - Miscellaneous Units for construction, installation, and operation of Waste Compactor.
- f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License R04971 for construction, installation, and operations of the Waste Compactor. Where in conflict, the conditions listed in the Radioactive Materials License R04971 take precedence over the conditions listed in this permit for construction, installation, and operation of the Waste Compactor.

#### L. Containment Buildings

Reserved

### VI. GROUNDWATER DETECTION MONITORING

#### A. Groundwater Monitoring Program

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

##### 1. Identification of Detection Monitoring Program Units

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

##### 2. Capabilities of Detection Monitoring Systems

The Detection Monitoring System shall yield groundwater samples from the uppermost

[VI.A.2.cont]

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

3. Point of Compliance

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

4. Detection Monitoring Program

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

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

(1) Background Wells are those wells that are unaffected by the operations of the unit. The Background Wells are depicted in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (MW-1BR through MW-4A & B).

(2) Point of Compliance (POC) Wells are used to demonstrate compliance with the Detection Monitoring Parameters which are listed on Table VI.B.3.c.-Groundwater Detection Monitoring Parameters. POC Wells are designated in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (DW-32A&B through DW-42 A&B and DW-60 through DW 65).

(3) The Detection Monitoring System shall also include Supplemental Wells, to establish groundwater quality and hydrogeologic conditions of the "125-foot zone" for the landfill (Permit Unit No. 2) and OAG Unit for the Surface

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

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

- b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care period in accordance with the parameter list and sampling schedule specified in Provisions VI.C.2. and VI.D.2., respectively.
- c. The design, construction, maintenance and operation of the authorized components of the Detection Monitoring Program must be in accordance with this permit and approved Part B Permit Application Attachment VI., which is incorporated into this permit through 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 Supplemental Monitoring System and submit certification of this installation within sixty (60) days of installation, as described in Attachment F (Well Design and Construction Specifications). The Detection and Supplemental Monitoring Wells shall be

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

2. Replacement Wells

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

3. Well Management Activities Requiring Permit Modification

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

4. Plugging and Abandonment Procedures

- a. If a Detection Monitoring Well listed in 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

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[VI.B.4.a cont]

accordance with 30 TAC Section 305.69 within 90 days of the plugging and abandonment procedure to update 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 "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. The "225 foot zone" of the Dockum Group ranges in elevation from approximately 3250 feet above Mean Sea Level (MSL) to 3215 above MSL. The top of the uppermost aquifer/water-bearing zone is approximately 225 feet below ground surface (BGS). Ground water is typically encountered 225 feet BGS. A siltstone zone that occurs at a depth of 125 feet below ground surface and is locally named the "125-foot zone" of the Dockum Group shall also be monitored at the landfill (Permit Unit No. 2) in accordance with provision VI.A.4.a.(3). An upper single hydrogeologic unit which consists of unconsolidated or semi consolidated sand and gravel and is referred to as the undifferentiated Ogallala, Antler, Gatuna (OAG) unit occurs directly above the Dockum Group locally and is located approximately 0 to 30 feet BGS shall also be monitored at the surface impoundment (Permit Unit No. 12) in accordance with provision VI.A.4.a.(3).
2. Groundwater Detection Monitoring Parameters and Compliance
  - a. The permittee shall monitor well identified in Provision VI.A.4.a. and listed in 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 background values. 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 units listed in Provision VI.A.1, shall remain in the Detection Monitoring Program during the active life of each unit and during any applicable Post-Closure Care period. After closure activities are completed for a specified unit and certification of closure is received by the Executive Director, any applicable Post-Closure Care period shall begin. If the Post-Closure Care Period has expired and evidence of statistically significant increase (SSI) of the Groundwater Detection Monitoring Parameters of 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 30 days prior to discontinuing the Detection Monitoring Program for the specified unit. Within 90 days of the notification, the permittee shall submit a final report to the Commission for the specified unit. The final report shall include the information required by the annual report of Provision VI.G.

### 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

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[VLD.1. cont]

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

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

## 2. Sampling and Analysis Frequencies and Parameters

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

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

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

- (5) "Calendar year" shall be based on divisions of the calendar (i.e. January through December).
- b. Sampling of wells shall commence during the first complete quarter after initial issuance of this permit, or during the first quarter of operation if the permit is issued for a new unit. Samples shall be collected during the first thirty (30) days of the specified sampling frequency.
- c. In the first and subsequent years of the Detection Monitoring Program, the wells of Table VI.B.3.b.-Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to Provision VI.D.2.d.
- d. The permittee shall, during April and October of each year, sample the detection monitoring system wells. A sample shall be obtained from each of the even numbered upgradient wells and downgradient wells during the October sampling event, and a sample shall be obtained from each of the odd numbered upgradient wells and downgradient wells during the April sampling event. The permittee shall analyze each sample to determine the concentration of each detection monitoring parameter listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters. The designated upgradient groundwater monitoring listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System will only be analyzed for metal monitoring parameters listed in Table VI.B.3.c.- Groundwater Detection Monitoring Parameters.
- e. Field determination requirements for wells listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System consist of the following measurements or observations for each well that will be sampled which shall be established during each sampling event:
  - (1) Water level measurements relative to Mean Sea Level measured to within 0.01 foot.
  - (2) Determination of pH, temperature, Specific Conductivity and Turbidity in nephelometric turbidity units, for each well.
  - (3) Descriptions of water sample appearance (clarity, color, etc.) shall be recorded.
  - (4) The total depth of each well, which is not equipped with a dedicated pump, shall be measured during each sampling event.

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

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

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

### 3. Statistical Procedures for Data Evaluation

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

[VI.D cont]

4. Data Evaluation

- a. Statistical data evaluations shall be completed within sixty (60) days of the sampling date unless QA/QC procedures show that data is unacceptable and re-analysis or resampling must be performed. In such cases, the Executive Director will be notified as soon as it becomes apparent that the 60-day time limit to conduct data evaluation cannot be met.
- b. Statistical data evaluation shall determine whether there is evidence of an SSI for the volatile and semi-volatile organic monitoring Parameters listed in 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).
- c. In addition to the statistical evaluation procedures established in Provision VI.D.3., the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in Table VI.B.3.c. – Groundwater Detection Monitoring Parameters. This data evaluation shall consist of a review of graphical representations of each of the metal parameter concentrations in each well over time. This evaluation of the metals data shall be performed annually and included in the annual report required under Provision VI.G.

E. Response Requirements for Increase in Groundwater Monitoring Parameters

1. If the permittee has determined an SSI for any of the Groundwater Monitoring Parameters identified in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters in accordance with 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

[VI.E.1.c. cont]

confirm the initial results, then these detected constituents will form the basis for a Compliance Monitoring Program. If the permittee does not resample for the constituents found pursuant to 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, the permittee shall submit to the Executive Director a permit amendment or modification to modify the Detection Monitoring Program and a compliance plan application to initiate a Compliance Monitoring Program and/or a Corrective Action Program for the specified unit. The permit and compliance plan applications must be submitted based on the following

schedule:

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

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[VI.E.2. cont]

- a. Notify the Executive Director in writing within seven (7) days that the permittee intends to make a demonstration.
- b. Within ninety (90) days, submit a report to the Executive Director which demonstrates that a source other than a RCRA-regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation.
- c. Submit to the Executive Director an application for a permit amendment or modification and a compliance plan application to make any appropriate changes to the Detection Monitoring Program at the facility. The applications shall be submitted in accordance with Provision VI.E.1.d.
- d. Continue to monitor ground water in accordance with the Detection Monitoring Program at the facility.

#### F. Revised Detection Monitoring Program

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

#### G. Annual Detection Monitoring Reporting Requirements

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

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

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[VI.G. cont]

4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurements in each detection monitoring system well sampled during each monitoring event. All data or documentation used to establish the contour map should be included in the report.
5. Recommendation for any changes.
6. Any other items requested by the Executive Director.

#### H. Record Keeping Requirements

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

#### I. Compliance Scheduling Requirements

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

1. The permittee shall complete the installation of all wells required by 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.

Additionally, facility closure shall also commence:

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[VII.A.1. cont]

- a. Upon direction of the TCEQ for violation of the permit, TCEQ Rules, or State Statutes; or
  - b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to receive, store, process, or dispose of waste materials; or
  - c. Upon abandonment of the site; or
  - d. Upon direction of the TCEQ for failure to secure and maintain an adequate bond or other financial assurance as required by 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(s), in accordance with 40 CFR 264.112 (c). The written request shall include a copy of the amended Closure Plan(s) for approval by the Executive Director.
  3. Time Frames for Modification\Amendment Request Submittal  
The permittee shall submit a written request for a permit modification or amendment in accordance with the time frames in 40 CFR 264.112 (c)(3).
  4. Closure Notice and Certification Requirements
    - a. The permittee shall notify the Executive Director, in writing, at least 60 days prior to the date on which he expects to begin partial or final closure of a surface impoundment, or landfill unit, or final closure of a facility with such a unit; or at least 45 days prior to the date on which he expects to begin partial or final closure of a facility with processing or storage tanks, container storage, or incinerator units; or at least 45 days prior to the date on which he expects to begin partial or final closure of a boiler or industrial furnace, whichever is earlier. A copy of the notice shall be submitted to the TCEQ Regional Office.
    - b. The permittee shall notify the TCEQ Regional Office at least ten (10) days prior to any closure sampling activity required by the permit in order to afford regional personnel the opportunity to observe these events and collect samples.
  5. Unless the Executive Director approves an extension to the closure period, as per the requirements of 40 CFR 264.113(b), the permittee must complete partial and final closure activities within 180 days after receiving the final known volume of hazardous wastes at the hazardous waste management unit or facility. Where the approved Closure Plan contains schedules for closure activities that extend beyond the 180-day closure period, issuance of this

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[VII.A.5. cont]

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

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

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[VII.A.10. cont]

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

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

#### B. Financial Assurance for Closure

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

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[VII.B.1. cont]

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

a. Adjustments to Financial Assurance Amount:

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

b. Annual Inflation Adjustments

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

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

C. Storage, Processing, and Combustion Unit Closure Requirements

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

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

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[VII.C.1. cont]

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

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

#### D. Surface Impoundment Closure Requirements

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

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

E. Landfill Closure and Certification Requirements

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

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

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[VII.E.1. cont]

- h. Within 60 days of completion of closure of the landfill unit, the permittee shall submit to the Executive Director a closure certification report, as specified in Provisions VII.A.6 and VII.E.2., for the cells not previously certified as closed. The final certification report for closure of the landfill unit shall provide any additional information as required in 40 CFR 264 Subpart G and by Provision VII.E., and shall state that the landfill has been closed in accordance with the specifications in the approved closure plan as required by 40 CFR Section 264.115. The closure certification report shall address the technical requirements specified in 30 TAC Section 350.95 for Response Action Completion Reports (RACR) as applicable.
2. After completion of the final cover for a landfill cell(s), the permittee shall submit certification of proper construction of the cap in accordance with 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 engineer to certify that the landfill cap has been constructed in conformance with the design and construction specifications of this permit. The certification report shall, at a minimum, contain the following engineering plans and test results:
  - a. Scaled plan-view and east-west and north-south cross-sections which accurately depict the area boundaries and dimensions of the cover; surrounding natural ground surface elevations; minimum, maximum, and representative elevations of the base on which the interim cover was placed; minimum, maximum, and representative elevations of the upper surface of the interim and final covers; thickness, extent, and materials of component parts of the cover system.
  - b. All observations tests, and analyses required to ensure that the installation has been completed with the terms of this permit and the incorporated design plans.

F. Containment Buildings Closure Requirements

Reserved

G. Facility Post-Closure Care Requirements

For each hazardous waste management unit which is closed as a landfill, the permittee shall conduct post-closure care of the unit for a period of at least 30 years after certification of closure of each respective unit. The post-closure period for each closed unit is specified in 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.

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[VII.G. cont]

2. Maintain the cover on the East +West Landfill, as applicable, such that the cover promotes drainage, prevents ponding, minimizes surface water infiltration, and minimizes erosion of the cover. Any desiccation cracks, settlement, erosion, gulying, or other damage shall be repaired upon observance.
3. Maintain the cover to promote natural growth of native vegetation.
4. Maintain all benchmarks at the facility.
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.
9. Perform all ground-water monitoring and related activities specified in Provision VI.A.1. and Provision VI.C.3. of the permit.
10. Collect and remove pumpable liquids in the leak detection system sumps to minimize the head on the bottom of the liner.
11. Manage all liquids removed from the leachate collection and leak detection systems as hazardous waste.
12. Maintain a record of the amount of liquids removed from each leak detection system sump at least monthly during the post-closure period, except that the permittee may record the amount of liquids removed from the each leak detection system sump quarterly or semi-annually during the post-closure period, after the final cover is installed, provided that the liquid level in the sump stays below the pump operating level for two consecutive months or quarters, respectively.
13. If at any time during the post-closure care period the pump operating level is exceeded at units on quarterly or semi-annual recording schedules, the permittee shall return to monthly recording of amounts of liquids removed from each leak detection system sump until the liquid level again stays below the pump operating level for two consecutive months.
14. The permittee shall determine if the action leakage rate specified in Table V.G.1. -Landfills has been exceeded by converting the monthly flow rate from the monitoring data obtained under

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[VII.G.14. cont]

Provisions 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.

15. If the action leakage rate is exceeded at any time during the post-closure period, the permittee shall perform the following minimum activities:
  - a. Notify the Executive Director in writing of the exceedence within seven (7) days of the determination;
  - b. Submit a preliminary written assessment to the Executive Director within fourteen (14) days of the determination, as to the amount of liquids, likely sources of liquids, possible location, size, and cause of any leaks, and short-term actions taken and planned;
  - c. Determine to the extent practicable the location, size, and cause of any leak;
  - d. Determine whether any waste should be removed from the unit for inspection, repairs, or controls;
  - e. Determine any other short-term and longer-term actions to be taken to mitigate or stop any leaks; and
  - f. Within 30 days after the notification that the action leakage rate has been exceeded, submit to the Executive Director the results of the evaluations specified in Provisions VII.G.15.c., d., and e., the results of actions taken, and actions planned. Monthly thereafter, as long as the flow rate in the leak detection system exceeds the action leakage rate, the permittee shall submit to the Executive Director a report summarizing the results of any remedial actions taken and actions planned.
16. To make the leak and/or remediation determinations in Provisions VII.G.15.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.

[VII.G. cont]

17. General Post-Closure Requirements

Request for Permit Modification or Amendment

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

Time Frames for Modification/Amendment Request

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

18. Post-Closure Notice and Certification Requirements

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

H. Financial Assurance for Post-Closure

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 \$2,332,438 (2011 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 Section 335.152.
  - a. Adjustment to financial Assurance Amount

At least 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

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[VII.H.1.b. cont]

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

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

## VIII. LIABILITY REQUIREMENTS

### A. Sudden and Nonsudden Accidental Occurrences

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

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

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

## IX. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

### A. Notification of Release From Solid Waste Management Unit

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

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[IX.A cont]

addressed in the RCRA Facility Assessment (RFA), or any release of hazardous waste or hazardous constituents that may have occurred from any SWMU and/or AOC, is discovered subsequent to issuance of this permit, the permittee shall notify the Executive Director in writing within fifteen (15) days of the discovery. Within forty-five (45) days of such discovery, the permittee shall submit an RFA for that unit or release which shall be based on U.S. EPA RCRA Facility Assessment Guidance, October 1986, NTIS PB 87-107769. If the RFA indicates a release or suspected release warrants further investigation, the permittee shall comply with the requirements of 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 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264, Appendix IX have been released to into the environment. Upon completion of the RFI the Permittee shall submit to the TCEQ either a demonstration that no release occurred or an Affected Property Assessment Report (APAR) showing the vertical and lateral nature and extent of the release. If it is determined that hazardous waste or hazardous constituents have been or are being released into the environment, then the permittee may be required to implement those activities listed in the Response Action Plan (RAP) to protect human health and the environment. Upon completion of the RAP implementation the permittee must submit to the TCEQ, as applicable, a Response Action Effectiveness Report (RAER) which details the activity that will be taken to remove, decontaminate and/or control chemicals of concern (COC) which may be present at the facility in excess of critical Protective Concentration Levels (PCLs) in the environmental media. The report shall include actions taken in response to releases to environmental media from waste a management unit(s) before, during, or after closure.

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

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

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[IX.B. cont]

5. proceed to the next task in the Corrective Action Program and/or;
6. submit an application for a new compliance plan or modification to an existing compliance plan to implement corrective measures.

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

C. Units Requiring Investigation

Not Applicable

D. Variance from Investigation

The permittee may elect to certify that no hazardous waste or hazardous constituents listed in 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264, Appendix IX are or were present/managed in a unit listed in Provision IX.C. in lieu of performing the investigation required in Provisions IX.B. and E., provided that confirming data is submitted for the current and past waste(s) managed in the respective unit. The permittee shall submit such information and certification(s) on a unit-by-unit basis in the time frame required in 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 area(s) of contamination listed in Provision IX.C. to the Executive Director for approval. Also, within sixty (60) days of approval of a RFA Report which recommends further investigation of a SWMU(s) or area(s) of contamination in accordance with Provision IX.A., the permittee shall submit a schedule for completion of the RFI(s) to the Executive Director for approval. The permittee shall initiate the investigations in accordance with the approved schedule and shall address all of the items for RFI Workplans and RFI Reports contained in U.S. EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994. If the permittee elects to use an alternate investigation approach, Executive Director approval of the workplan will be required prior to initiation of investigation(s). The results of the RFI must be submitted to the Executive Director for

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[IX.E. cont]

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

F. Response Action Plan (RAP)

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

a. Response Action Completion Report (RACR)

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

[IX cont]

G. Compliance Plan

Not Applicable

X. AIR EMISSION STANDARDS

A. Process Vents and Equipment Leaks

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

2. Requirements for Subparts AA and BB

a. The permittee must comply with the requirements of 30 TAC Section 335.152(a)(17)/40 CFR Part 264 Subpart AA and 30 TAC Section 335.152(a)(18)/40 CFR Part 264 Subpart BB, as applicable.

b. The permittee shall include in the Biennial Report, required in Provision II.B.7., a statement that hazardous waste management units or associated ancillary equipment at this facility are not subject to any of the requirements in Provision X.A.2.a., if these requirements are not applicable to any hazardous waste management units or associated ancillary equipment at this facility. If at any time any hazardous waste management units or associated ancillary equipment become subject to the requirements in Provision X.A.2.a., the permittee must immediately comply with these requirements.

c. Requirements for Subpart CC

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



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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
<b>GENERAL INSPECTION (ACTIVE FACILITY) – SECURITY DEVICES</b>		
Perimeter Fence	<ul style="list-style-type: none"> <li>• Check for breaches and damage</li> </ul>	Monthly
Gates	<ul style="list-style-type: none"> <li>• Check for damage</li> <li>• Check for proper operation</li> <li>• Check for presence and function of locking mechanism</li> </ul>	Weekly
Perimeter Warning Signs	<ul style="list-style-type: none"> <li>• Check for presence and legibility of warning signs</li> </ul>	Monthly
Exterior Lighting	<ul style="list-style-type: none"> <li>• Check for proper function</li> </ul>	Weekly
<b>GENERAL INSPECTION (POST-CLOSURE) – SECURITY DEVICES</b>		
Perimeter Fence	<ul style="list-style-type: none"> <li>• Check for breaches and damage</li> </ul>	Semiannually
Gates	<ul style="list-style-type: none"> <li>• Check for damage</li> <li>• Check for proper operation</li> <li>• Check for presence and function of locking mechanism</li> </ul>	Semiannually
Perimeter Warning Signs	<ul style="list-style-type: none"> <li>• Check for presence and legibility of warning signs</li> </ul>	Semiannually
<b>GENERAL INSPECTION (ACTIVE FACILITY) – ENVIRONMENTAL MONITORING SYSTEMS</b>		
Groundwater Monitoring Wells	<ul style="list-style-type: none"> <li>• Check integrity of pad and subgrade</li> <li>• Check protective casing               <ul style="list-style-type: none"> <li>- Presence of label</li> <li>- Presence/proper function of cap and lock</li> <li>- Evidence of damage or instability</li> </ul> </li> <li>• Check well casing               <ul style="list-style-type: none"> <li>- Presence of cap</li> <li>- Evidence of damage or instability</li> </ul> </li> </ul>	Semiannually
<b>GENERAL INSPECTION (POST-CLOSURE) – ENVIRONMENTAL MONITORING SYSTEMS</b>		
Groundwater Monitoring Wells	<ul style="list-style-type: none"> <li>• Check integrity of pad and subgrade</li> <li>• Check protective casing               <ul style="list-style-type: none"> <li>- Presence of label</li> <li>- Presence/proper function of cap and lock</li> <li>- Evidence of damage or instability</li> </ul> </li> <li>• Check well casing               <ul style="list-style-type: none"> <li>- Presence of cap</li> <li>- Evidence of damage or instability</li> </ul> </li> </ul>	Annually when each well is monitored

**TABLE III.D. INSPECTION SCHEDULE**  
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<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
<b>GENERAL INSPECTION (ACTIVE FACILITY) – SAFETY AND EMERGENCY EQUIPMENT</b>		
Protective Clothing Designated for Emergency Use	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> <li>• Check accessibility</li> <li>• Check for deterioration/damage</li> </ul>	Monthly or after each use
Breathing Apparatus	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> <li>• Check accessibility</li> <li>• Check for deterioration/damage</li> <li>• Check for function</li> </ul>	Monthly or after each use
First Aid Kits	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> <li>• Check accessibility</li> </ul>	Monthly or after each use
Emergency Showers and Eye Wash Stations	<ul style="list-style-type: none"> <li>• Check that units activate and shut off properly</li> <li>• Check water pressure</li> <li>• Check accessibility</li> </ul>	Monthly
Alarm Systems (Plant-wide and operational areas)	<ul style="list-style-type: none"> <li>• Check accessibility</li> <li>• Activate alarm (power/battery failure/function)</li> </ul>	Monthly
Internal (2-way radio) and External (phone) Communications Systems	<ul style="list-style-type: none"> <li>• Check accessibility</li> <li>• Check operation</li> </ul>	Monthly
Fire Extinguishers	<ul style="list-style-type: none"> <li>• Check pressure gauge for full charge indication</li> <li>• Check inspection tag to ensure annual maintenance by qualified inspection service is up-to-date</li> <li>• Check seal to ensure that no one has used extinguisher</li> <li>• Check accessibility</li> </ul>	Monthly or after each use
Spill Control Supplies (shovels, brooms, booms, etc.) and Kits	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> <li>• Check accessibility</li> <li>• Check for deterioration/damage</li> </ul>	Monthly or after each use
Absorbent Supply	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> </ul>	Monthly or after each use
Empty Drums	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> </ul>	Monthly
Other Safety and Emergency Equipment	<ul style="list-style-type: none"> <li>• Check for adequate supply</li> <li>• Check accessibility</li> <li>• Check for deterioration/damage</li> <li>• Check proper operation</li> </ul>	Monthly

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

<b>Facility Unit(s) and Basic Elements</b>	<b>Possible Error, Malfunction, or Deterioration</b>	<b>Frequency of Inspection</b>
Emergency Information List	<ul style="list-style-type: none"> <li>• Check current information</li> <li>• Check for posting at each phone</li> </ul>	Monthly
Emergency Lighting and Exit Signs	<ul style="list-style-type: none"> <li>• Check for proper function</li> </ul>	Monthly
Facility Warning Signs (No Smoking, Authorized Personnel Only, etc.)	<ul style="list-style-type: none"> <li>• Check for presence and legibility</li> </ul>	Monthly
Fire Suppression Systems	<ul style="list-style-type: none"> <li>• Check water hoses for damage and accessibility</li> <li>• Check water delivery systems for corrosion, damage and proper valve functioning</li> <li>• Check sprinkler system pressure gauges, pipes, sprinkler heads, obstructions to flow, adequate water supply, compressors, etc.</li> </ul>	Monthly
Fire Detection Systems	<ul style="list-style-type: none"> <li>• Check for power/battery failure</li> </ul>	Monthly
<b>RAILCAR LOADING/UNLOADING AND INSPECTION AREAS (ACTIVE FACILITY)</b>		
Railcar Pedestal Unloading Building	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> <li>• Check for secure tarps or other closure devices on full railcars</li> <li>• Check for integrity of truck loading pads</li> </ul>	Daily when in use
Railcar Dumper Building	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> <li>• Check for secure tarps or other closure devices on full railcars</li> <li>• Check for liquids or other materials within containments and sumps</li> <li>• Check for integrity of floor and curbing</li> </ul>	Daily when in use
Railcar Pedestal Unloading Building Truck Haul Road	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> </ul>	Daily when in use
Railcar Dumper Truck Haul Road	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> </ul>	Daily when in use
Railcar Staging and Loading Areas	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> <li>• Check for secure tarps, lids or other closure devices</li> <li>• Check for storm water on tarps</li> </ul>	Daily when in use

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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
Railroad Container Unloading Area	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> <li>• Check for liquids or other materials on floors or in sump(s)</li> <li>• Check for secure container lids, tarps or other closure devices</li> <li>• Check for integrity of floors and curbing</li> </ul>	Daily when in use
Inspection Station/Truck Scales	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> </ul>	Daily when in use
<b>CONTAINER STORAGE UNIT INSPECTIONS (ACTIVE FACILITY)</b>		
Container Storage Building	<ul style="list-style-type: none"> <li>• Check for liquids or other materials on floors</li> <li>• Check for condition of containers</li> <li>• Check for secure container lids, tarps or other closure devices</li> <li>• Check for integrity of floors and curbing</li> <li>• Check adequacy of aisle space</li> <li>• Check for proper container placement (pallets, stacking, etc.)</li> </ul>	Weekly
Container Storage Building Dock and Staging Areas	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> <li>• Check for liquids and other materials in sumps</li> <li>• Check for secure container lids, tarps, or other closure devices</li> <li>• Check for integrity of floors, curbing, sumps and grates</li> </ul>	Daily when in use
Bin Storage Unit 1	<ul style="list-style-type: none"> <li>• Check for liquids or other materials on floors and in trenches and sumps</li> <li>• Check for condition of containers</li> <li>• Check for secure container lids, tarps, or other closure devices</li> <li>• Check for integrity of floors and curbing</li> <li>• Check adequacy of aisle space</li> <li>• Check for proper container placement (pallets, stacking, etc.)</li> <li>• Check for storm water on bin tarps</li> </ul>	Weekly

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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
Bin Storage Units 2 and 3	<ul style="list-style-type: none"> <li>• Check for liquids or other materials on asphalt pad and in storm water basins</li> <li>• Check for condition of containers</li> <li>• Check for secure container lids, tarps, or other closure devices</li> <li>• Check for integrity of asphalt pad and curbing</li> <li>• Check for storm water on bin tarps</li> <li>• Check adequacy of aisle space</li> <li>• Check for proper container placement (pallets, stacking, etc.)</li> </ul>	Weekly
Stabilization Building Container Storage Areas	<ul style="list-style-type: none"> <li>• Check for liquids or other materials on floors</li> <li>• Check for condition of containers</li> <li>• Check for secure container lids, tarps, or other closure devices</li> <li>• Check for integrity of floors and curbing</li> <li>• Check adequacy of aisle space</li> <li>• Check for proper container placement (pallets, stacking, etc.)</li> </ul>	Weekly
<b>RCRA STABILIZATION BUILDING TREATMENT AREA INSPECTIONS (ACTIVE FACILITY)</b>		
Mixing Tanks	<ul style="list-style-type: none"> <li>• Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions)</li> <li>• Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks</li> <li>• Check for presence of liquids in leak detection system pipes</li> </ul>	<p>Daily when in use, weekly otherwise</p> <p>Quarterly when in use</p> <p>Daily when in use, weekly otherwise</p>
Ancillary Equipment	<ul style="list-style-type: none"> <li>• Check for damage to sealing system between tanks and floor</li> <li>• Check for liquids or other materials on floors and around leak detection system inspection ports</li> <li>• Check the condition of bins or other containers</li> <li>• Check for integrity of floors and curbing</li> <li>• Check vents for clogging or restriction</li> <li>• Check heavy equipment for damage and proper function</li> </ul>	<p>Daily when in use, weekly otherwise</p> <p>Daily when in use, weekly otherwise</p> <p>Weekly when in use</p> <p>Weekly when in use</p> <p>Weekly when in use</p> <p>Weekly when in use</p>

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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
Emissions Control Equipment	<ul style="list-style-type: none"> <li>• Check the baghouse system for damage and proper operation</li> </ul>	Weekly when in use
Loading/Unloading Areas (north and south)	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> </ul>	Daily when in use
<b>MIXED WASTE STABILIZATION BUILDING TREATMENT AREA INSPECTIONS (ACTIVE FACILITY)</b>		
Mixing Tanks	<ul style="list-style-type: none"> <li>• Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions)</li> <li>• Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks</li> <li>• Check for presence of liquids in leak detection system pipes</li> </ul>	Daily when in use, weekly otherwise  Quarterly when in use  Daily when in use, weekly otherwise
Ancillary Equipment	<ul style="list-style-type: none"> <li>• Check for damage to sealing system between tanks and floor</li> <li>• Check for liquids or other materials on floors and around leak detection system inspection ports</li> <li>• Check for integrity of floors and curbing</li> <li>• Check the condition of bins or other containers</li> <li>• Check heavy equipment for damage</li> <li>• Check shredder and drum crusher for damage, leaks</li> <li>• Check waste compactor for damage, leaks</li> </ul>	Daily when in use, weekly otherwise Daily when in use, weekly otherwise Weekly when in use Weekly when in use Weekly when in use Weekly when in use
Emissions Control Equipment	<ul style="list-style-type: none"> <li>• Check vents for clogging or restriction</li> <li>• Check ventilation system for damage and proper operation</li> </ul>	Weekly when in use Weekly when in use
Loading Bay	<ul style="list-style-type: none"> <li>• Check for evidence of spills, leaks, or other releases</li> </ul>	Daily when in use
<b>LANDFILL INSPECTION (ACTIVE FACILITY)</b>		
Perimeter Dikes	<ul style="list-style-type: none"> <li>• Check dikes for erosion and deterioration</li> </ul>	Weekly and after storm events
Drainage System	<ul style="list-style-type: none"> <li>• Check ditches for erosion, siltation and debris</li> <li>• Check landfill cells for accumulation of storm water</li> </ul>	Weekly and after storm events

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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
Cover Systems	<ul style="list-style-type: none"> <li>• Check interim cover for erosion, deterioration, or dust dispersal</li> <li>• Check final cover for erosion, deterioration, and condition of vegetative cover</li> </ul>	Weekly and after storm events
Wind Dispersal Control	<ul style="list-style-type: none"> <li>• Check for evidence of waste, reagent, or dust dispersal</li> </ul>	Weekly
Leachate Collection System	<ul style="list-style-type: none"> <li>• Check for presence and level of liquid in risers</li> <li>• Check condition of risers and manholes</li> <li>• Check pump and level alarm function</li> <li>• Check integrity of temporary accumulation vessel(s)</li> </ul>	At least weekly and after storm events
Leak Detection System	<ul style="list-style-type: none"> <li>• Check for presence and level of liquid in risers</li> <li>• Check condition of risers and manholes</li> <li>• Check pump function</li> <li>• Check integrity of temporary accumulation containers</li> </ul>	At least weekly
Truck Wash	<ul style="list-style-type: none"> <li>• Check the integrity of the containment skid</li> <li>• Check washing equipment for damage and operability</li> <li>• Check for the presence of liquids and debris within the skid</li> </ul>	Weekly
<b>LANDFILL INSPECTION -- (POST-CLOSURE)</b>		
Perimeter Dikes	<ul style="list-style-type: none"> <li>• Check dikes for erosion and continuity of cobblestones and vegetation</li> </ul>	Semiannually and after major storm events
Drainage System	<ul style="list-style-type: none"> <li>• Check ditches for erosion, siltation and debris</li> <li>• Check concrete ditches and rundown chutes for grade and debris</li> </ul>	Semiannually and after major storm events
Cover Systems	<ul style="list-style-type: none"> <li>• Check final cover for erosion, grade and continuity of cobblestones and natural vegetation; check for indications of ponding (pooled water, soft areas, etc.)</li> </ul>	Semiannually and after major storm events
Leachate Collection System	<ul style="list-style-type: none"> <li>• Check for presence and level of liquid in risers</li> <li>• Check condition of risers and manholes</li> <li>• Check pump function</li> </ul>	At least monthly

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

<i>Facility Unit(s) and Basic Elements</i>	<i>Possible Error, Malfunction, or Deterioration</i>	<i>Frequency of Inspection</i>
Leak Detection System	<ul style="list-style-type: none"> <li>• Check for presence and level of liquid in risers</li> <li>• Check condition of risers and manholes</li> </ul>	In accordance with 40 CFR §264.303(c)(2) <sup>1</sup> .
Benchmarks	<ul style="list-style-type: none"> <li>• Check for damage</li> <li>• Check for validity</li> </ul>	Semiannually or during any general inspection Every 5 years
<b>SURFACE IMPOUNDMENT – (ACTIVE FACILITY)</b>		
Overtopping Control System	<ul style="list-style-type: none"> <li>• Check level marks on sidewall for damage and visibility.</li> </ul>	Weekly and after storm events
Wastewater Levels	<ul style="list-style-type: none"> <li>• Check for any sudden drops in wastewater levels.</li> </ul>	Weekly and after storm events
Perimeter Dikes/Berms	<ul style="list-style-type: none"> <li>• Check for erosion and deterioration.</li> </ul>	Weekly and after storm events
Leak Detection System	<ul style="list-style-type: none"> <li>• Check for presence and level of liquid in riser</li> <li>• Check condition of riser</li> <li>• Check pump function</li> </ul>	At least weekly
Double walled piping to impoundment	<ul style="list-style-type: none"> <li>• Check each inspection vault for liquids</li> <li>• Check ground surface along pipe route for evidence of release</li> </ul>	At least monthly. Also, prior to initiation of a wastewater transfer and upon completion of the transfer.

<sup>1</sup>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.



<b>Table III.E.3. – Emergency Equipment</b>			
<b>Equipment</b>	<b>Location</b>	<b>Physical Description</b>	<b>Capabilities</b>
Protective Clothing.	Various locations throughout the facility.	Personal Protective Equipment appropriate for the conditions.	Protection in hazardous situations
Air-Purifying Respirators	Various locations as required throughout the facility.	Respirators and equipment for hazardous atmospheres	Respiratory protection in hazardous areas.
Supplied Air Respirators	Various locations as required throughout the facility.	Respirators with supplied air lines	Respiratory protection in hazardous areas
Self-Contained Breathing Apparatus	Various locations as required throughout the facility.	Supplied-air respiratory protection device with air tank	Respiratory protection in hazardous areas
Emergency Shower and Eyewash	Various locations throughout the facility.	Water supply station for prompt personal decontamination	Water removal of contaminants
First Aid Kit	Various locations throughout the facility.	Supplies for minor injury treatment	Prompt care for minor injuries
2-Way Radios	With personnel throughout the facility	Hand-held, battery-operated radios	Internal communications for emergency situations
Telephone System	Various locations throughout the facility.	Fixed and mobile phones	Internal and external communications for emergency situations

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



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

No.	Waste	EPA Hazardous Waste Numbers <sup>1, 2, 3, 4, 5, 6</sup>	TCEQ Waste Form Codes and Classification Codes
1	Land Disposable Waste (LDW) w/o free liquids <sup>2</sup>	D001 D002 D003 <sup>3</sup> D004 D005 D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039 D040 D041 D042 D043 F001 F002 F003 F004 F005 F006 F007 F008 F009 F010 F011 F012 F019 F024 F025 F028 F032 F034 F035 F037 F038 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K011 K013 K014 K015 K016 K017 K018 K019 K020 K021 K022 K023 K024 K025 K026 K027 K028 K029 K030 K031 K032 K033 K034 K035 K036 K037 K038 K039 K040 K041 K042 K043 K044 <sup>3</sup> K045 <sup>3</sup> K046 K047 <sup>3</sup> K048 K049 K050 K051 K052 K060 K061 K062 K069 K071 K073 K083 K084 K085 K086 K087 K088 K093 K094 K095 K096 K097 K098 K099 K100 K101 K102 K103 K104 K105 K106 K107 K108 K109 K110 K111 K112 K113 K114 K115 K116 K117 K118 K123 K124 K125 K126 K131 K132 K136 K141 K142 K143 K144 K145 K147 K148 K149 K150 K151 K156 K157 K158 K159 K161 K169 K170 K171 K172 K174 K178 P001 P002 P003 P004 P005 P006 P007 P008 P009 <sup>3</sup> P010 P011 P012 P013 P014 P015 P016 P017 P018 P020 P021 P022 P023 P024 P026 P027 P028 P029 P030 P031 P033 P034 P036 P037 P038 P039 P040 P041 P042 P043 P044 P045 P046 P047 P048 P049 P050 P051 P054 P056 P057 P058 P059 P060 P062 P063 P064 P065 P066 P067 P068 P069 P070 P071 P072 P073 P074 P075 P076 <sup>4</sup> P077 P078 <sup>4</sup> P081 <sup>3</sup> P082 P084 P085 P087 P088 P089 P092 P093 P094 P095 P096 P097 P098 P099 P101 P102 P103 P104 P105 P106 P108 P109 P110 P111 P112 <sup>3</sup> P113 P114 P115 P116 P118 P119 P120 P121 P122 P123 P127 P128 P185 P188 P189 P190 P191 P192 P194 P196 P197 P198 P199 P201 P202 P203 P204 P205 U001 U002 U003 U004 U005 U006 U007 U008 U009 U010 U011 U012 U014 U015 U016 U017 U018 U019 U020 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U032 U033 U034 U035 U036 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U053 U055 U056 U057 U058 U059 U060 U061 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U086 U087 U088 U089 U090 U091 U092 U093 U094 U095 U096 <sup>3</sup> U097 U098 U099 U101 U102 U103 U105 U106 U107 U108 U109 U110 U111 U112 U113 U114 U115 U116 U117 U118 U119 U120 U121 U122 U123 U124 U125 U126 U127 U128 U129 U130 U131 U132 U133 <sup>3</sup> U134 U135 U136 U137 U138 U140 U141 U142 U143 U144 U145 U146 U147 U148 U149 U150 U151 U152 U153 U154 U155 U156 U157 U158 U159 U160 <sup>3</sup> U161 U162 U163 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U175 U176 U177 U178 U179 U180 U181 U182 U183 U184 U185 U186 U187 U188 U189 U190 U191 U192 U193 U194 U196 U197 U200 U201 U202 U203 U204 U205 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U217 U218 U219 U220 U221 U222 U223 U225 U226 U227 U228 U234 <sup>3</sup> U235 U236 U237 U238 U239 U240 U243 U244 U246 U247 U248 U249 U271 U277 U278 U279 U280 U328 U353 U359 U364 U367 U372 U373 U387 U389 U394 U395 U404 U409 U410 U411	Classification Codes: H, 1, 2, and 3 Form Codes: Lab Packs: (001, 002, 003, 004, 009); Inorganic Liquids: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 198, 199); Organic Liquids: (201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 219, 296, 297, 298, 299); Inorganic Solids: (301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 319, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399); Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499); Inorganic Sludges: (501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 519, 597, 598, 599); Organic Sludges: (601, 602, 603, 604, 605, 606, 607, 608, 609, 695, 696, 697, 698, 699) Plant Trash: (902, 999).
2	LDW w/ free liquids <sup>2</sup>	See EPA waste code list for Waste No. 1 above	See Classification Codes and Form Codes listed for Waste No. 1 above.

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

No.	Waste	EPA Hazardous Waste Numbers <sup>1, 2, 3, 4, 5, 6</sup>	TCEQ Waste Form Codes and Classification Codes
3	RCRA-only Land Disposal Restricted Waste (LDRW) w/ free liquids	D001 D002 D003 <sup>3</sup> D004 D005 D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039 D040 D041 D042 D043 F001 F002 F003 F004 F005 F006 F007 F008 F009 F010 F011 F012 F019 F020 <sup>5</sup> F021 <sup>5</sup> F022 <sup>5</sup> F023 <sup>5</sup> F024 F025 F026 <sup>5</sup> F027 <sup>5</sup> F028 F032 F034 F035 F037 F038 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K011 K013 K014 K015 K016 K017 K018 K019 K020 K021 K022 K023 K024 K025 K026 K027 K028 K029 K030 K031 K032 K033 K034 K035 K036 K037 K038 K039 K040 K041 K042 K043 K044 <sup>3</sup> K045 <sup>3</sup> K046 K047 <sup>3</sup> K048 K049 K050 K051 K052 K060 K061 K062 K069 K071 K073 K083 K084 K085 K086 K087 K088 K093 K094 K095 K096 K097 K098 K099 K100 K101 K102 K103 K104 K105 K106 K107 K108 K109 K110 K111 K112 K113 K114 K115 K116 K117 K118 K123 K124 K125 K126 K131 K132 K136 K141 K142 K143 K144 K145 K147 K148 K149 K150 K151 K156 K157 K158 K159 K161 K169 K170 K171 K172 K174 K178 P001 P002 P003 P004 P005 P006 P007 P008 P009 <sup>3</sup> P010 P011 P012 P013 P014 P015 P016 P017 P018 P020 P021 P022 P023 P024 P026 P027 P028 P029 P030 P031 P033 P034 P036 P037 P038 P039 P040 P041 P042 P043 P044 P045 P046 P047 P048 P049 P050 P051 P054 P056 P057 P058 P059 P060 P062 P063 P064 P065 P066 P067 P068 P069 P070 P071 P072 P073 P074 P075 P076 <sup>4</sup> P077 P078 <sup>4</sup> P081 <sup>3</sup> P082 P084 P085 P087 P088 P089 P092 P093 P094 P095 P096 P097 P098 P099 P101 P102 P103 P104 P105 P106 P108 P109 P110 P111 P112 <sup>3</sup> P113 P114 P115 P116 P118 P119 P120 P121 P122 P123 P127 P128 P185 P188 P189 P190 P191 P192 P194 P196 P197 P198 P199 P201 P202 P203 P204 P205 U001 U002 U003 U004 U005 U006 U007 U008 U009 U010 U011 U012 U014 U015 U016 U017 U018 U019 U020 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U032 U033 U034 U035 U036 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U053 U055 U056 U057 U058 U059 U060 U061 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U086 U087 U088 U089 U090 U091 U092 U093 U094 U095 U096 <sup>3</sup> U097 U098 U099 U101 U102 U103 U105 U106 U107 U108 U109 U110 U111 U112 U113 U114 U115 U116 U117 U118 U119 U120 U121 U122 U123 U124 U125 U126 U127 U128 U129 U130 U131 U132 U133 <sup>3</sup> U134 U135 U136 U137 U138 U140 U141 U142 U143 U144 U145 U146 U147 U148 U149 U150 U151 U152 U153 U154 U155 U156 U157 U158 U159 U160 <sup>3</sup> U161 U162 U163 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U175 U176 U177 U178 U179 U180 U181 U182 U183 U184 U185 U186 U187 U188 U189 U190 U191 U192 U193 U194 U196 U197 U200 U201 U202 U203 U204 U205 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U217 U218 U219 U220 U221 U222 U223 U225 U226 U227 U228 U234 <sup>3</sup> U235 U236 U237 U238 U239 U240 U243 U244 U246 U247 U248 U249 U271 U277 U278 U279 U280 U328 U353 U359 U364 U367 U372 U373 U387 U389 U394 U395 U404 U409 U410 U411	See Classification Codes and Form Codes listed for Waste No. 1 above.
4	RCRA-only LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.

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

No.	Waste	EPA Hazardous Waste Numbers <sup>1, 2, 3, 4, 5, 6</sup>	TCEQ Waste Form Codes and Classification Codes
5	Mixed LDRW w/free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
6	Mixed LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
7	Non-Hazardous Industrial Wastes***	Class 1, Class 2, and Class 3 Industrial Solid Wastes	See Classification Codes and Form Codes listed for Waste No. 1 above.
8	Non-Hazardous Non-Industrial Wastes ***	Non hazardous wastes from non industrial entities	Not applicable
		a. Asbestos containing materials	
		b. Non-hazardous off-specification or spent chemical products	
		c. Non-hazardous remediation and demolition waste (e.g., chemically impacted soil, personal protective equipment, and building materials)	
		d. PCB Wastes	
9	LDW with free liquids (generated and treated at the adjacent WCS operated facility permitted by HW-50397)	F039 (primary); may also carry one or more U- and/or P-codes due to code carry-through (for decontamination and other non-leachate wastewaters.)	Inorganic Liquids: (116, 119)

<sup>1</sup> Hazardous waste codes identified in this table are derived from the codes in existence on January 20, 2005.

<sup>2</sup> LDW wastes may carry any of the codes listed. However, for codes requiring treatment by a specific technology that is not available at the WCS site (e.g., combustion), the waste will have been treated elsewhere to achieve the applicable treatment standard prior to receipt at WCS, and the code carries through to the treatment residue.

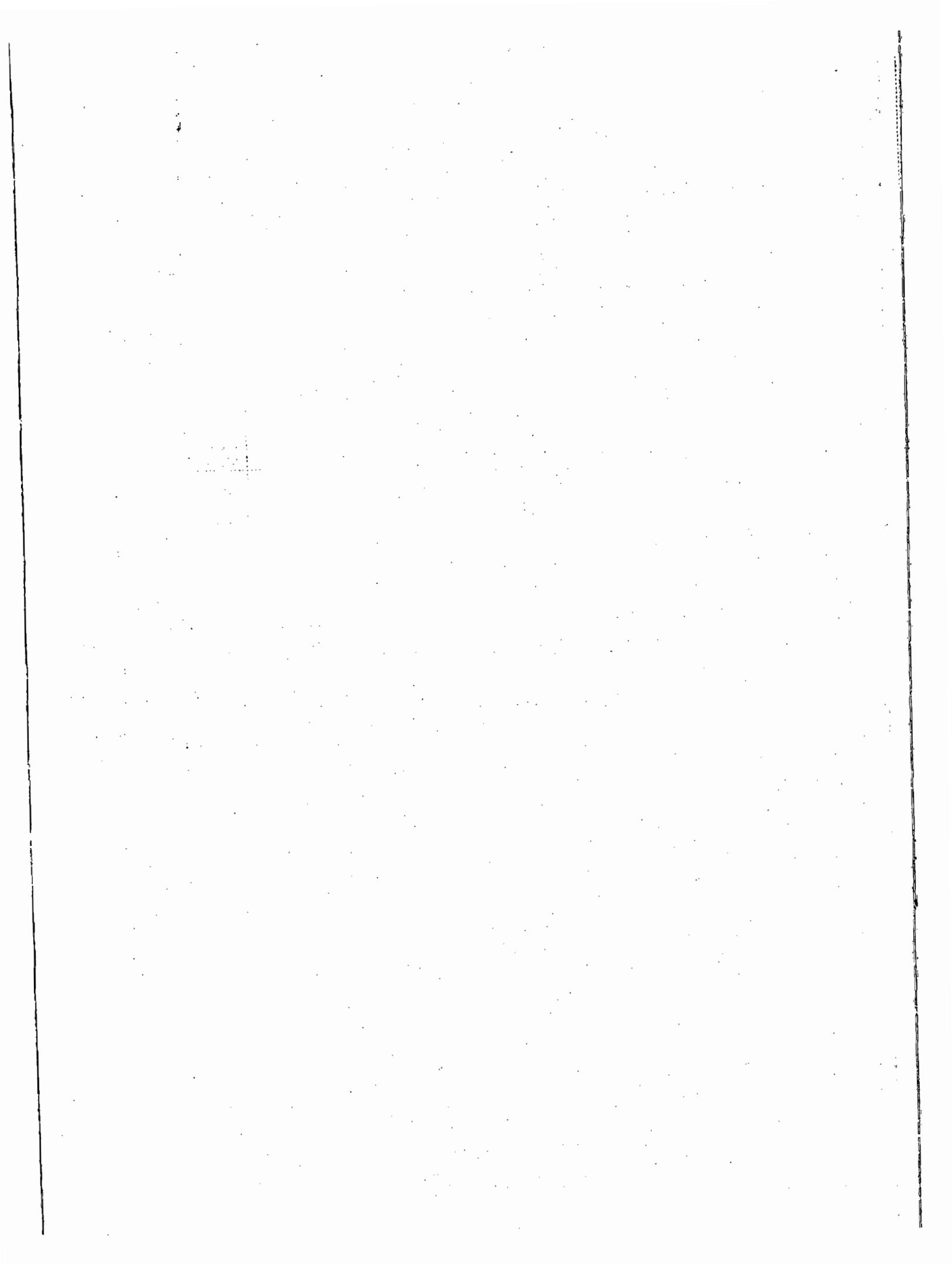
<sup>3</sup> No wastes that are explosive as defined in 49 CFR Part §261.23(a)(6),(7), or (8) are acceptable. Wastes bearing the noted waste codes are acceptable if they are not explosive as defined in the cited regulations.

<sup>4</sup> Waste compressed gases, except aerosol cans, are not acceptable.

<sup>5</sup> Wastes bearing the F020, F021, F022, F023, F026 or F027 codes will not be disposed in the landfill.

<sup>6</sup> EPA Hazardous Waste Numbers are applicable only to those wastes that are designated as hazardous in accordance with RCRA and that are assigned an "H" classification code.

\*\*\* Subject to limitations of permit Provision IV.B.4.f.



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

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

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

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

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

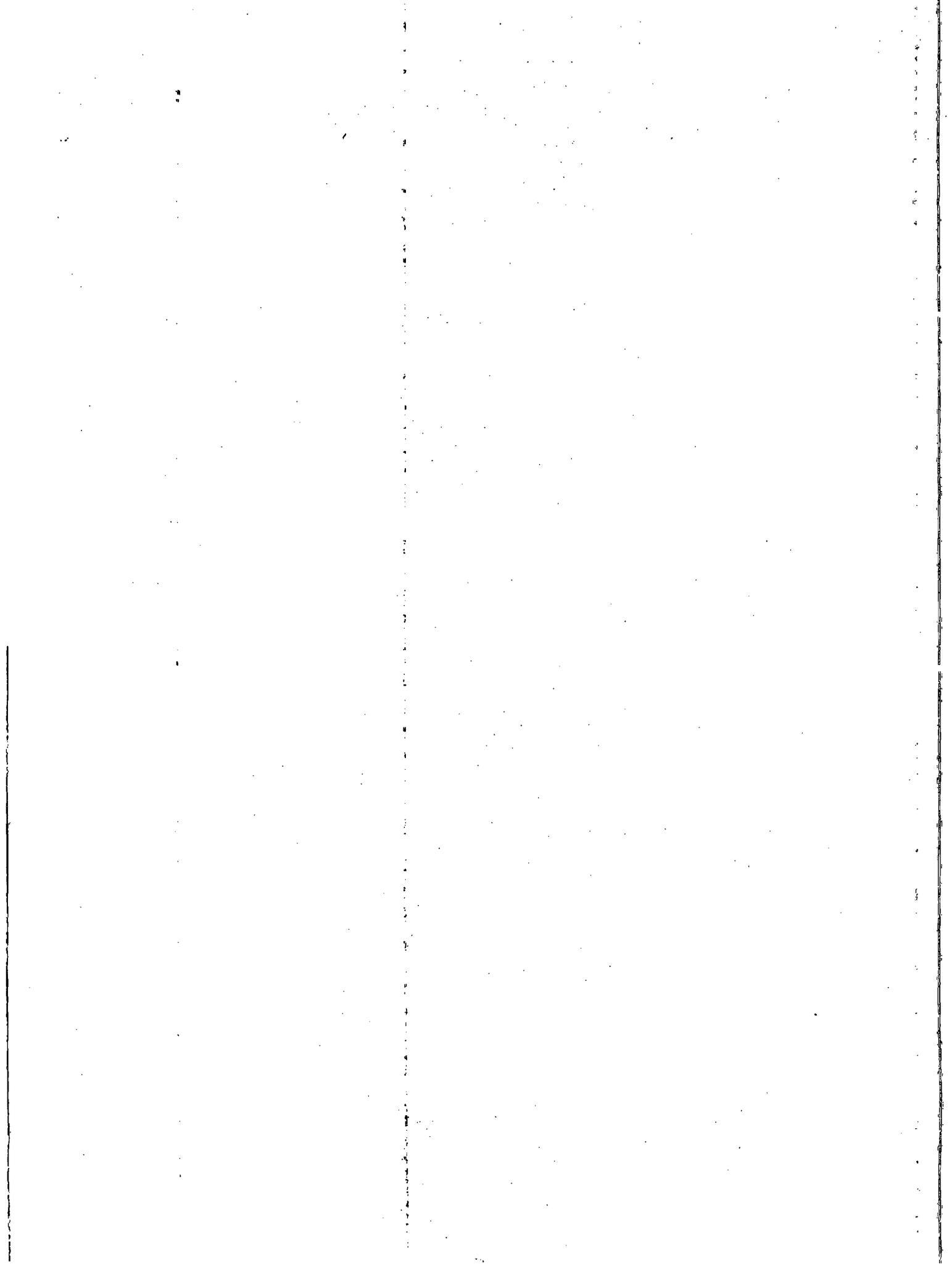
<i>Waste No.<sup>1</sup></i>	<i>Sampling Location</i>	<i>Sampling Method<sup>2</sup></i>	<i>Frequency<sup>3</sup></i>	<i>Parameter<sup>4</sup></i>	<i>Test Method<sup>2</sup></i>	<i>Desired Level</i>	<i>Accuracy</i>
3	See Process Analyses for Stabilization, Post Treatment Verification						
				<b>Supplemental Analyses:</b>			
1,2,3, 4,5, 6, 9	Generator, Inspection Station, Railcar Staging Area, Container Storage Units, Railcar Dumper Building (waste nos. 1 and 2), Railcar Pedestal Unloading Building (waste nos. 1, 2, 3 and 4), Stabilization Building, Surface Impoundment	Scoop, coliwasa, trier, shovel, bailer, weighted bottle sampler, pump	As determined by facility management	GC/MS	SW 846 Method 8260B, SW 846 Method 8270C	MS Recovery within laboratory limits	
				PCBs	SW 846 Method 8082	MS Recovery within laboratory limits	
				Commingled Waste Compatibility	ASTM D 5058A	National Institute of Standards and Testing Traceable thermometer used	
				Reactive Sulfides	SW 846 Sec. 7.3.4.2	Duplicate samples must match.	
				Reactive Cyanide	SW 846 Sec. 7.3.3.2	Duplicate samples must match.	
				Oxidizer Screen	ASTM D 4981	Duplicate samples must match	

<sup>1</sup>from Table IV.B, first column

<sup>2</sup>See WAP for additional methods.

<sup>3</sup>Frequencies shown are generalized for purposes of presentation in this table; see WAP for specifics.

<sup>4</sup>Not all parameters apply to each sample; see WAP for specifics.



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

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

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

<sup>2</sup>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.

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

<sup>4</sup>The total combined volume of wastes stored in the Container Storage Building and BSA-1 that are assigned the F020, F021, F022, F023, F026 and F027 waste codes will not exceed five 55-gallon drum equivalents.



**TABLE V.C TANKS AND TANK SYSTEMS**

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

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

<sup>1</sup>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.

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

<sup>1</sup>from Table IV.B, first column

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

<sup>3</sup>Wastes that exhibit ignitable and/or corrosive characteristics will not be placed in the landfill with those characteristics, but the D001 ignitable and/or D003 reactive codes will still be associated with the wastes.

<sup>\*\*\*</sup> Waste Nos. 7 and 8 are subject to limitations of permit Provision IV.B.4.f.











**Table V.K. - Miscellaneous Units**  
 (Source: Class 3 Permit Modification Application, September 2011)

Permit Unit No.	Miscellaneous Unit	N.O.R . No.	Storage, Processing, and/or Disposal	Waste Nos. <sup>1</sup>	Rated Capacity	Dimensions	Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)
11	Railcar Dumper Building	032	Processing	1 and 2	0 <sup>2</sup>	140 ft long; 130 ft wide (dumper section); 64.5 ft wide (truck exit section)	Incompatible <sup>3</sup>
8g	Waste Compactor	008	Processing	6 (Mixed LDRW w/o free liquids)	N/A	15.7 ft x 7.7 ft	None of the above.

<sup>1</sup>from Table IV.B, first column

<sup>2</sup>**IF YES**, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17.

\* 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.

<sup>2</sup> Only spot solidification/stabilization of incidental liquids will be conducted; therefore, the building does not have a rated capacity.

<sup>3</sup> Incompatible wastes may be received in separate railcars. Incompatible wastes will not be commingled in the building. Wastes that exhibit ignitable and/or corrosive characteristics will not be unloaded in the building, but the D001 ignitable and/or D003 reactive codes may still be associated with the wastes.



**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System**  
**(Source: Class 2 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>	Well Number(s):				
	MW-1BR	MW-2A	MW-2B	MW-3A	MW-3B
Hydrogeologic Unit Monitored	225	225	225	225	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	BG	BG	BG
Up or Down Gradient	UG	UG	UG	UG	UG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MSL)	3481.47	3482.61	3482.81	3483.93	3483.99
Grade or Surface Elevation (ft, MSL)	3478.3	3479.6	3479.7	3480.9	3481.0
Well Depth (ft)	271.5	261	274	265	280
Screen Interval, From(ft) To(ft)	255 270	245 260	258 273	249 264	264 279
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	47.23"	48.07"	48.12"	48.88"	48.93"
103°03'	45.50"	44.20"	44.09"	42.73"	42.63"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>							
	Well Number(s):	MW-4A	MW-4B	DW-32A	DW-32B	SW-32	DW-33A
Hydrogeologic Unit Monitored	2252013	225	225	225	125	225	
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	POC	POC	Observ	POC	
Up or Down Gradient	UG	UG	DG	DG	DG	DG	
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"	
Top of Casing Elevation (ft, MSL)	3485.59	3485.63	3462.41	3462.34	3462.35	3465.88	
Grade or Surface Elevation (ft, MSL)	3482.5	3482.4	3459.4	3459.3	3459.4	3462.9	
Well Depth (ft)	268	283.5	228.5	244.5	128	231	
Screen Interval, From(ft) To(ft)	252 267	267.5 282.5	212.5 227.5	229.5 244.5	117 127	215 230	
Facility Coordinates (e.g., lat/long or company coordinates)							
	32°26'	49.81"	49.86"	26.60"	26.56"	26.64"	26.15"
	103°03'	41.39"	41.29"	47.52"	47.42"	47.63"	45.84"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>	Well Number(s):					
	DW-33B	SW-33	DW-34A	DW-34B	SW-34	DW-35A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MSL)	3466.0	3465.71	3469.58	3469.83	3469.48	3468.74
Grade or Surface Elevation (ft, MSL)	3463.2	3462.8	3466.6	3466.8	3466.5	3466.3
Well Depth (ft)	246	146.5	234	248	119	233.5
Screen Interval, From(ft) To(ft)	230 245	135.5 145.5	218 233	232 247	108 118	218 233
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	26.12"	26.19"	25.68"	25.64"	25.72"	25.21"
103°03'	45.74"	45.95"	44.15"	44.04"	44.26"	42.73"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2012)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>	DW-35B	SW-35	DW-36A	DW-36B	SW-36	DW-37A
Well Number(s):	DW-35B	SW-35	DW-36A	DW-36B	SW-36	DW-37A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	2" PVC				
Screen Diameter and Material	4" 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)	3468.84	3468.92	3468.48	3468.82	3468.19	Proposed
Grade or Surface Elevation (ft, MSL)	3466.3	3466.4	3465.9	3466.3	3465.6	Proposed
Well Depth (ft)	249	123.5	238.5	253.5	118.5	Proposed
Screen Interval, From(ft) To(ft)	233 248	113 123	223 238	238 253	108 118	Proposed
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	25.18"	25.24"	24.83"	24.80"	24.86"	Proposed
103°03'	42.62"	42.85"	41.25"	41.14"	41.37"	Proposed

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>						
	Well Number(s):	DW-37B	SW-37	DW-38A	DW-38B	SW-38
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	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)	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)						
	32°26'	Proposed	Proposed	Proposed	Proposed	Proposed
	103°03'	Proposed	Proposed	Proposed	Proposed	Proposed

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System**  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>	DW-39B	SW-39	DW-40A	DW-40B	SW-40	DW-41A
Well Number(s):	DW-39B	SW-39	DW-40A	DW-40B	SW-40	DW-41A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC					
Screen Diameter and Material	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)	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)						
32°26'	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
103°03'	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> – <b>East + West Landfill</b>	DW-41B	SW-41	DW-42A	DW-42B	SW-42
Well Number(s):	DW-41B	SW-41	DW-42A	DW-42B	SW-42
Hydrogeologic Unit Monitored	225	125	225	225	125
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ
Up or Down Gradient	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC				
Screen Diameter and Material	2" PVC				
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MSL)	Proposed	Proposed	Proposed	Proposed	Proposed
Grade or Surface Elevation (ft, MSL)	Proposed	Proposed	Proposed	Proposed	Proposed
Well Depth (ft)	Proposed	Proposed	Proposed	Proposed	Proposed
Screen Interval, From(ft) To(ft)	Proposed	Proposed	Proposed	Proposed	Proposed
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	Proposed	Proposed	Proposed	Proposed	Proposed
103°03'	Proposed	Proposed	Proposed	Proposed	Proposed

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> -FWF contact water evaporation pond	Well Number(s):					
	MW-1BR	MW-2A	MW-2B	MW-3A	MW-3B	
Hydrogeologic Unit Monitored	225	225	225	225	225	
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	BG	BG	BG	
Up or Down Gradient	UG	UG	UG	UG	UG	
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	
Top of Casing Elevation (ft, MSL)	3481.47	3482.61	3482.81	3483.93	3483.99	
Grade or Surface Elevation (ft, MSL)	3478.3	3479.6	3479.7	3480.9	3481.0	
Well Depth (ft)	271.5	261	274	265	280	
Screen Interval, From(ft) To(ft)	255 270	245 260	258 273	249 264	264 279	
Facility Coordinates (e.g., lat/long or company coordinates)						
	32°26'	47.23"	48.07"	48.12"	48.88"	48.93"
	103°03'	45.50"	44.20"	44.09"	42.73"	42.63"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System**  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)

Waste Management Unit/Area Name <sup>1</sup> -FWF <b>contact water evaporation pond</b>						
Well Number(s):	MW-4A	MW-4B	DW-60A	DW-60B	SW-60	DW-61A
Hydrogeologic Unit Monitored	225	225	225	225	OAG	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	POC	POC	Observ	POC
Up or Down Gradient	UG	UG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	4" PVC	4" 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)	3485.59	3485.63	3444.75	No Install	3444.67	3443.92
Grade or Surface Elevation (ft, MSL)	3482.5	3482.4	3441.41	No Install	3441.34	3440.65
Well Depth (ft)	268	283.5	217.85	No Install	37.08	216.89
Screen Interval, From(ft) To(ft)	252 267	267.5 282.5	202.25 217.25	No Install	26.48 36.48	201.29 216.29
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	49.81"	49.86"	31"	No Install	31"	30"
103°03'	41.39"	41.29"	44"	No Install	43"	41"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

Waste Management Unit/Area Name <sup>1</sup> –FWF <b>contact water evaporation pond</b>	DW-61B	SW-61	DW-62A	DW-62B	SW-62	DW-63A
Well Number(s):						
Hydrogeologic Unit Monitored	225	OAG	225	225	OAG	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	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)	No Install	3443.69	3442.38	3442.57	3442.34	3443.39
Grade or Surface Elevation (ft, MSL)	No Install	3440.57	3439.70	3439.69	3439.52	3440.04
Well Depth (ft)	No Install	35.18	215.38	205.35	35.32	224.05
Screen Interval, From(ft) To(ft)	No Install	24.58- 34.58	199.78- 214.78	189.75- 204.75	24.72- 34.72	208.45- 223.45
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	No Install	28"	28"	26"	28"	27"
103°03'	No Install	39"	39"	39"	39"	30"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)**

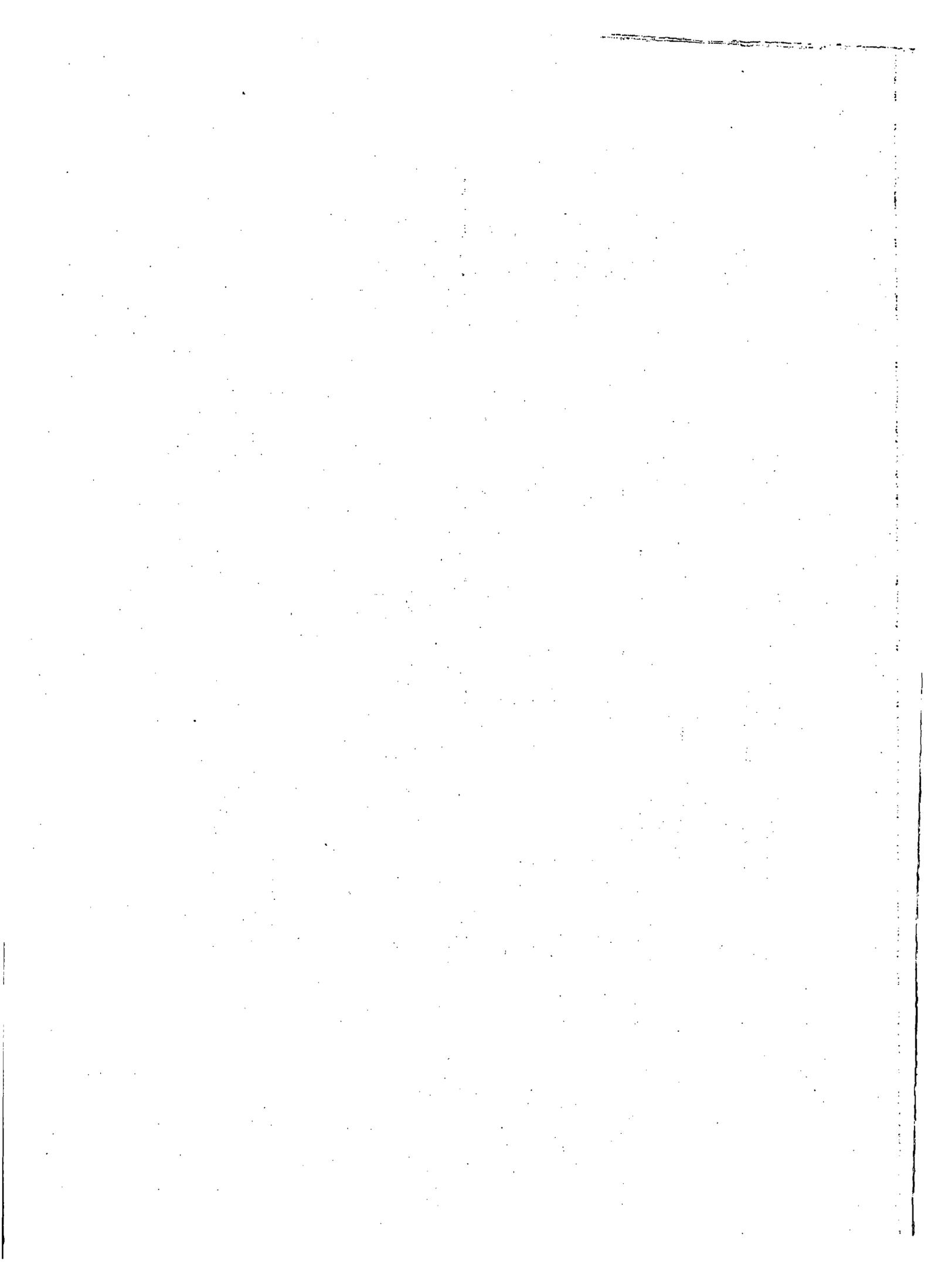
Waste Management Unit/Area Name <sup>1</sup> -FWF <b>contact water evaporation pond</b>	Well Number(s):	DW-63B	SW-63	DW-64A	DW-64B	SW-64
Hydrogeologic Unit Monitored		225	OAG	225	225	OAG
Type (e.g., point of compliance, background, observation, etc.)		POC	Observ	POC	POC	Observ
Up or Down Gradient		DG	DG	DG	DG	DG
Casing Diameter and Material		2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material		2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)		0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MSL)		No Install	3443.25	3442.52	No Install	3442.29
Grade or Surface Elevation (ft, MSL)		No Install	3440.04	3439.03	No Install	3438.83
Well Depth (ft)		No Install	36.93	257.48	No Install	35.75
Screen Interval, From(ft) To(ft)		No Install	26.33- 36.33	241.88- 256.88	No Install	25.15- 35.15
Facility Coordinates (e.g., lat/long or company coordinates)						
	32°26'	No Install	28"	27"	No Install	27"
	103°03'	No Install	36"	36"	No Install	32"

<sup>1</sup>From Tables in Section V.

**Table VI.B.3.b. - Unit Groundwater Detection Monitoring System**  
 (Source: Class 3 Permit Modification Application, Revised June 24, 2013)

Waste Management Unit/Area Name <sup>1</sup> -FWF contact water evaporation pond	Well Number(s):	DW-65A	DW-65B	SW-65		
Hydrogeologic Unit Monitored		225	225	OAG		
Type (e.g., point of compliance, background, observation, etc.)		POC	POC	Observ		
Up or Down Gradient		DG	DG	DG		
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)		3443.22	No Install	3443.42		
Grade or Surface Elevation (ft, MSL)		3440.08	No Install	3440.02		
Well Depth (ft)		255.39	No Install	33.25		
Screen Interval, From(ft) To(ft)		239.79- 254.79	No Install	22.65- 32.65		
Facility Coordinates (e.g., lat/long or company coordinates)						
	32°26'	27"	No Install	27"		
	103°03'	33"	No Install	29"		

<sup>1</sup>From Tables in Section V.



**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- East + West Landfill

Well No(s).<sup>2</sup> POC (DW) and Supplemental (SW) Wells

DW32A, DW32B, SW32, DW33A, DW33B, SW33, DW34A, DW34B, SW34, DW35A, DW35B, SW35, DW36A, DW36B, SW36 (existing); DW37A/B, SW 37, DW38A/B, SW-38, DW39A/B, SW-39, DW40A/B, SW40, DW41A/B, SW41, DW42A/B, SW42 (future)

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters</b>				
Acetone	Staggered Semi-Annual	SW-846 8260/EPA Method 624	100 ug/l	100 ug/l
Benzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Bromoform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Disulfide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Tetrachloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorobenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorodibromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Chloroform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Dichlorobromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1 -Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2 - Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2-Dichloropropane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells (MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- East + West Landfill

Well No(s).<sup>2</sup> POC (DW) and Supplemental (SW) Wells

SW32, DW32A, DW32B, SW33, DW33A, DW33B, SW34, DW34A, DW34B, SW35, DW35A, DW35B, SW36, DW36A, DW36B  
 (existing); SW37, DW37A/B, SW 38, DW38A/B, SW-39, DW39A/B, SW-40, DW40A/B, SW41, DW41A/B, SW42, DW42A/B (future)

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters (concluded)</b>				
cis-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
trans-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Ethylbenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Methyl Bromide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Methyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Tetrachloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Toluene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2-trans-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,1-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1,2-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Trichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Vinyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells (MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- East + West Landfill

Well No(s).<sup>2</sup> POC (DW) and Supplemental (SW) Wells

SW32, DW32A, DW32B, SW33, DW33A, DW33B, SW34, DW34A, DW34B, SW35, DW35A, DW35B, SW36, DW36A, DW36B (existing); SW37, DW37A/B, SW 38, DW38A/B, SW-39, DW39A/B, SW-40, DW40A/B, SW41, DW41A/B, SW42, DW42A/B (future)

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Semi-Volatile Monitoring Parameters</b>				
Phenol	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
1,4 Dioxane	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
<b>Metal Monitoring Parameters<sup>2</sup></b>				
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

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells (MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)**

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**  
 Well No(s).<sup>2</sup> **POC Wells**  
**DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters</b>				
Acetone	Staggered Semi-Annual	SW-846 8260/EPA Method 624	100 ug/l	100 ug/l
Benzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Bromoform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Disulfide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Tetrachloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorobenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorodibromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Chloroform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Dichlorobromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1 -Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2 - Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2-Dichloropropane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells (MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)**

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**

Well No(s),<sup>2</sup> **POC Wells**

**DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters (concluded)</b>				
cis-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
trans-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Ethylbenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Methyl Bromide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Methyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Tetrachloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Toluene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2-trans-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,1,-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1,2-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Trichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Vinyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells (MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**  
 Well No(s).<sup>2</sup> **POC Wells**  
**DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Semi-Volatile Monitoring Parameters</b>				
Phenol	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
1,4 Dioxane	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
<b>Metal Monitoring Parameters<sup>2</sup></b>				
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

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

<sup>2</sup> Groundwater samples from the upgradient monitor wells: MW1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B will be analyzed for only the metal monitoring parameters shown on Page 3.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)**

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**  
 Well No(s). **Supplemental Wells**  
**SW-60, SW-61, SW-62, SW-63, SW-64, SW-65**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters</b>				
Acetone	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	100 ug/l	100 ug/l
Benzene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Bromoform	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Disulfide	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Tetrachloride	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorobenzene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chlorodibromomethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Chloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Chloroform	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Dichlorobromomethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1 -Dichloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2 - Dichloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1-Dichloroethylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l

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

<sup>2</sup> Monitoring of these wells will be conducted on a quarterly basis during the baseline period; thereafter, monitoring frequency will be semi-annual.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**  
 Well No(s). **Supplemental Wells**  
**SW-60, SW-61, SW-62, SW-63, SW-64, SW-65**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Volatile Organic Priority Pollutant Monitoring Parameters (concluded)</b>				
1,2-Dichloropropane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
cis-1,3-Dichloropropylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
trans-1,3-Dichloropropylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Ethylbenzene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Methyl Bromide	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
Methyl Chloride	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Tetrachloroethylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Toluene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,2-trans-Dichloroethylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l
1,1,1-Trichloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
1,1,2-Trichloroethane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Trichloroethylene	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Vinyl Chloride	Quarterly/Semi-annual <sup>2</sup>	SW-846 8260/EPA Method 624	10 ug/l	10 ug/l

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

<sup>2</sup> Monitoring of these wells will be conducted on a quarterly basis during the baseline period; thereafter, monitoring frequency will be semi-annual.

**TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS**  
 (Source: Class 3 Permit Modification Application, Revised July 24, 2012)

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**  
 Well No(s). **Supplemental Wells**  
**SW-60, SW-61, SW-62, SW-63, SW-64, SW-65**

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit <sup>1</sup>
<b>Semi-Volatile Monitoring Parameters</b>				
Phenol	Quarterly/Semi-annual <sup>2</sup>	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
1,4 Dioxane	Quarterly/Semi-annual <sup>2</sup>	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
<b>Metal Monitoring Parameters</b>				
Arsenic	Quarterly/Semi-annual <sup>2</sup>	SW-846 6010/EPA Method 200.7	0.01 mg/l	NA
Nickel	Quarterly/Semi-annual <sup>2</sup>	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA
Cadmium	Quarterly/Semi-annual <sup>2</sup>	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA
Selenium	Quarterly/Semi-annual <sup>2</sup>	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA

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

<sup>2</sup> Monitoring of these wells will be conducted on a quarterly basis during the baseline period; thereafter, monitoring frequency will be semi-annual.



**Table VII.E.1. - PERMITTED UNIT CLOSURE COST SUMMARY**  
**(Source: Class 1 Permit Modification Application Revised July 2014)**

Existing Unit Closure Cost Estimate	
Unit	Cost (2012)**
East + West Landfill	\$6,896,588
Container Storage Building	\$1,619,948
Bin Storage Unit 1	\$986,683
Bin Storage Unit 2	\$1,138,179
Stabilization Building: Mixing Tank MT-1	\$40,729
Stabilization Building: Mixing Tank MT-2	\$40,729
Stabilization Building: Mixing Tank MT-3	\$42,928
Stabilization Building: North Container Storage Area	\$73,297
Stabilization Building: South Container Storage Area	\$73,348
Surface Impoundment (FWF Contact Water Evaporation Pond) ***	\$3,902,612
<b>Total Existing Unit Closure Cost Estimate</b>	<b>\$14,815,041 (2012)<sup>1</sup></b>
Proposed Unit Closure Cost Estimate	
Unit	Cost (2012)
Bin Storage Unit 3**	\$1,130,553
Stabilization Building: Mixing Tank MT-4**	\$42,928
Stabilization Building: Waste Compactor***	\$11,799
<b>Total Proposed Unit Closure Cost Estimate</b>	<b>\$1,185,280</b>
<b>Total Existing and Proposed Unit Closure Cost Estimate</b>	<b>\$16,000,321 (2012)</b>

<sup>1</sup> 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.

\*\* Individual unit closure costs (in 2012 dollars) reflect 2008 costs that have been adjusted for inflation to 2012 using annual inflation factors provided by TCEQ. The costs have been adjusted using Inflation factors for 2008 to 2012 = 1.2% for 2008/2009, 1.0% for 2009/2010, 2.1% for 2010/2011, 1.8% for 2011/2012.

\*\*\* Closure costs for waste compactor and surface impoundment (in 2012 dollars) reflect 2010 costs that have been adjusted for inflation to 2012 using annual inflation factors provided by TCEQ. Total inflation from 2010 to 2011 = 2.1%, and 2011/2012=1.8%.





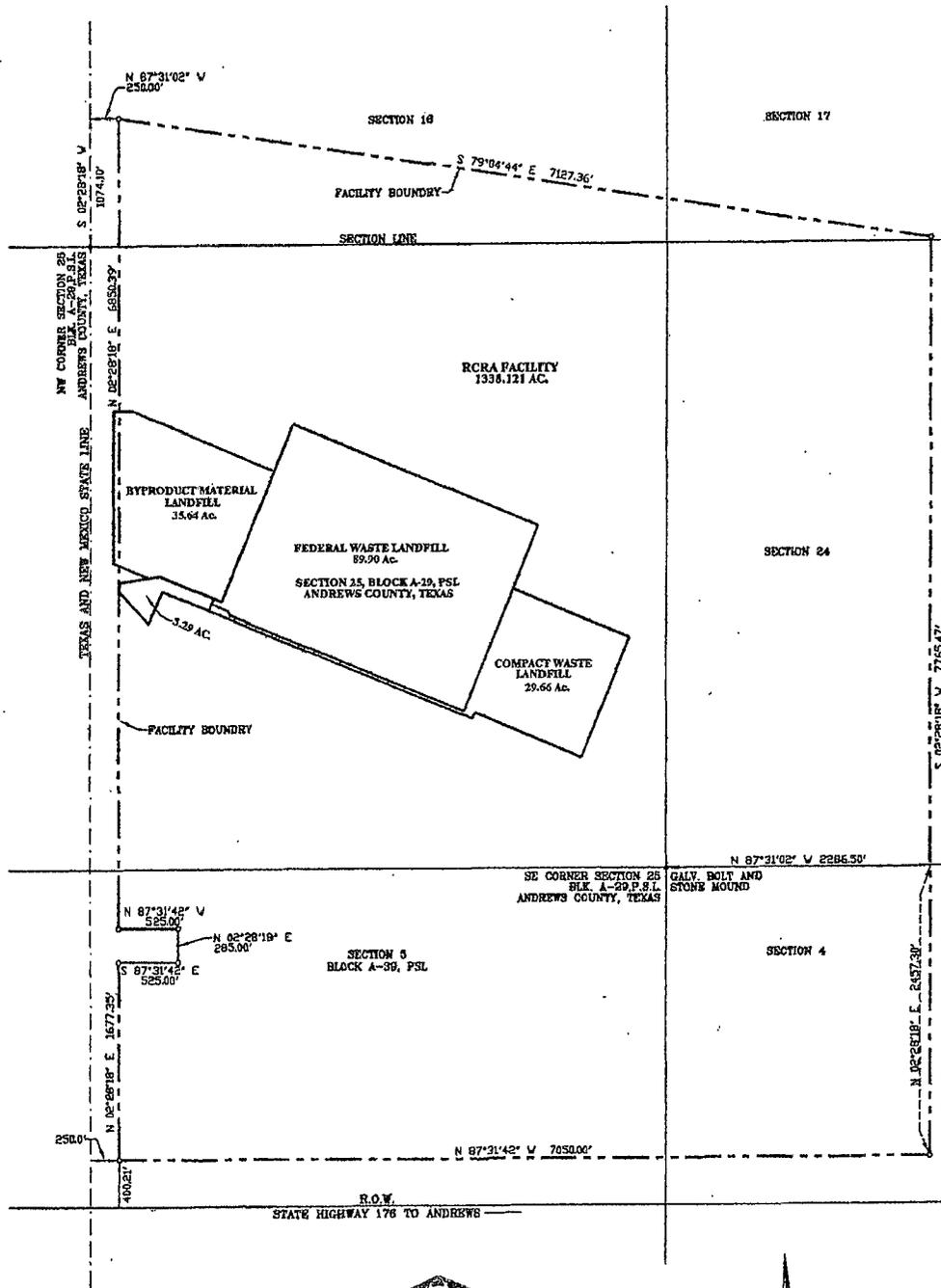


TABLE VII.G - POST-CLOSURE PERIOD

<i>Unit Name</i>	<i>Date Certified Closed</i>	<i>Permitted Post Closure Period (Yrs)</i>	<i>Date Post Closure Ends</i>
East+West Landfill (Permit Unit No. 2)	To be Determined	30 years	To be Determined



Attachment A - Legal Description on Facility



SCALE: 1" = 1000'  
 0 - 1/2" I.R. WITH CAP STARK 4960

*J. Stark*

JOB No. 82081  
 DATED: DECEMBER 14, 2019  
 WASTE CONTROL SPECIALISTS  
 STARK SURVEYING, LLC  
 3306 N. "A" STREET, BLDG. 1-200  
 MIDLAND, TEXAS



FIELD NOTE DESCRIPTION OF A 1338.121 ACRES OF LAND OUT OF SECTIONS 16, 17, 24 AND 25, BLOCK A-29, AND SECTIONS 4 AND 5, BLOCK A-39, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS, AS FOLLOWS:

BEGINNING at a 1/2-inch iron rod with cap marked STARK 4960 for the northwest corner of this tract, from which point the northwest corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, bears N 87° 31' 02" W, 250.00 feet and S 02° 28' 18" W, 1074.10 feet;

THENCE S 79° 04' 44" E, a distance of 7127.36 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the northeast corner of this tract;

THENCE S 02° 28' 18" W, 7300.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 7765.47 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the southeast corner of this tract; from which point a Galvanized Bolt and Stone Mound found for the southeast corner of said Section 25 bears N 02° 28' 18" E, 2457.30 feet and N 87° 31' 02" W, 2286.50 feet;

THENCE N 87° 31' 42" W, a distance of 7050.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the southwest corner of this tract;

THENCE N 02° 28' 18" E, 250.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 1677.35 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE S 87° 31' 42" E, a distance of 525.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 02° 28' 18" E, a distance of 285.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 87° 31' 42" W, a distance of 525.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 02° 28' 18" E, 250.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 6850.39 feet to the place of beginning and containing 58286557.98 square feet or 1338.121 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: December 14, 2010

STARK SURVEYING, LLC

By:



Jimmie Robert Stark  
Registered Professional Land Surveyor

SS Job No. 82081  
Waste Control Specialists



FIELD NOTE DESCRIPTION OF A 1338.121 ACRES OF LAND OUT OF SECTIONS 16, 17, 24 AND 25, BLOCK A-29, AND SECTIONS 4 AND 5, BLOCK A-39, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS, AS FOLLOWS:

BEGINNING at a 1/2-inch iron rod with cap marked STARK 4960 for the northwest corner of this tract, from which point the northwest corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, bears N 87° 31' 02", W, 250.00 feet and S 02° 28' 18" W, 1074.10 feet;

THENCE S 79° 04' 44" E, a distance of 7127.36 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the northeast corner of this tract;

THENCE S 02° 28' 18" W, 7300.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 7765.47 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the southeast corner of this tract; from which point a Galvanized Bolt and Stone Mound found for the southeast corner of said Section 25 bears N 02° 28' 18" E, 2457.30 feet and N 87° 31' 02"W, 2286.50 feet;

THENCE N 87° 31' 42" W, a distance of 7050.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for the southwest corner of this tract;

THENCE N 02° 28' 18" E, 250.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 1677.35 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE S 87° 31' 42" E, a distance of 525.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 02° 28' 18" E, a distance of 285.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 87° 31' 42" W, a distance of 525.00 feet to a 1/2-inch iron rod with cap marked STARK 4960 for a corner of this tract;

THENCE N 02° 28' 18" E, 250.00 feet east of and parallel to the Texas-New Mexico State Line, a distance of 6850.39 feet to the place of beginning and containing 58286557.98 square feet or 1338.121 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".

SAVE & EXCEPT: a 35.64 acre tract known as the Byproduct Facility Area;  
a 3.29 acre tract known as the LERW Administration Area;  
an 89.90 acre tract known as the Federal Waste Landfill Area;  
a 29.66 acre tract known as the Compact Waste Landfill Area;

December 14, 2010

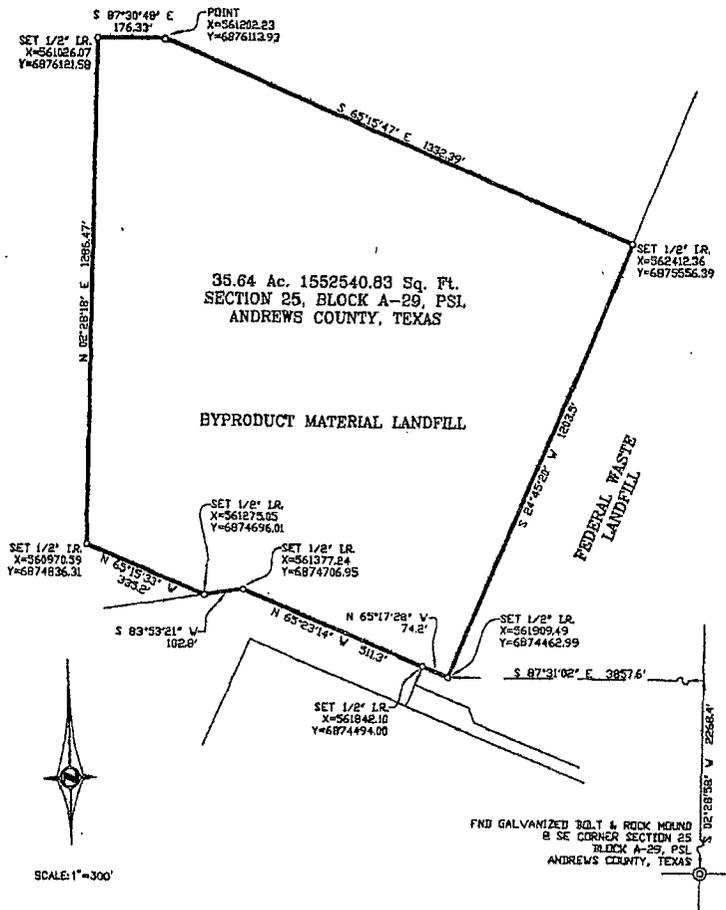
STARK SURVEYING, LLC

By:



Jimmie Robert Stark  
Registered Professional Land Surveyor

SS Job No. 82081  
Waste Control Specialists



FIELD NOTE DESCRIPTION OF A 35.64 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a 1/2-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 87° 31' 02" E, 3857.6 feet and S 02° 28' 58" W, 2268.4 feet;

THENCE N 67° 17' 28" W, 74.2 feet to a 1/2-inch iron rod set for a corner of this tract;

THENCE N 65° 23' 14" W, 511.3 feet to a 1/2-inch iron rod set for a corner of this tract;

THENCE S 83° 53' 21" W, 102.8 feet to a 1/2-inch iron rod set for a corner of this tract;

THENCE N 65° 15' 33" W, 335.2 feet to a 1/2-inch iron rod set for the southwest corner of this tract;

THENCE N 02° 28' 18" E, 1286.47 feet to a 1/2-inch iron rod set for the northwest corner of this tract;

THENCE S 87° 30' 48" E, 176.33 feet to a point for a corner of this tract;

THENCE S 65° 15' 47" E, 1332.39 feet to a 1/2-inch iron rod set for the northeast corner of this tract;

THENCE S 24° 45' 20" W, 1203.5 feet to the place of beginning and containing 1552540.83 square feet or 35.64 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: December 14, 2010

SS Job No. 80808  
Waste Control Specialists

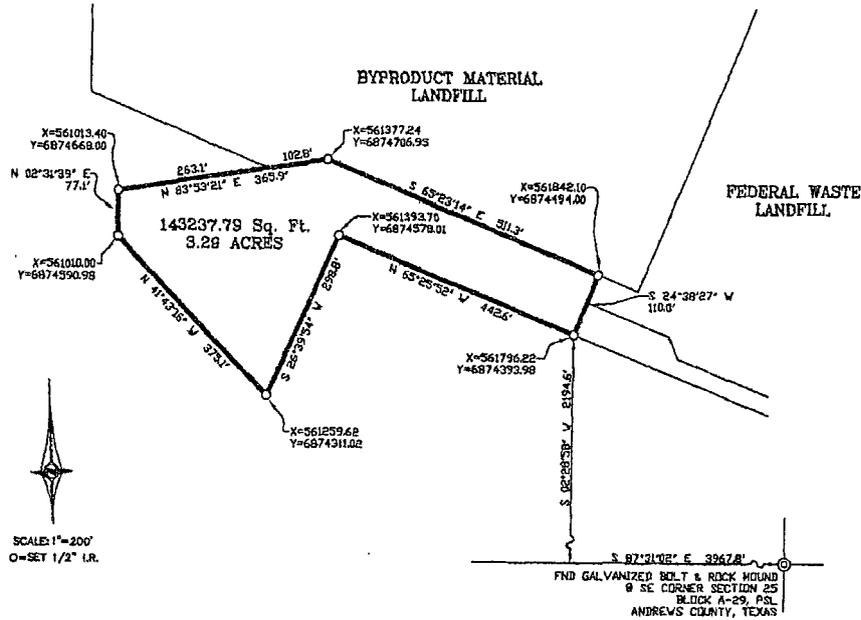
By:

STARK SURVEYING, LLC

*Jimmie Robert Stark*  
Jimmie Robert Stark  
Registered Professional Land Surveyor



STARK SURVEYING, LLC  
1300 N. "A" STREET, SUITE 1-200  
MOLAND, TEXAS



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 1/2-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 1/2-inch iron rod set for a corner of this tract;
- THENCE S 26° 39' 54" W, 298.8 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE N 41° 43' 16" W, 375.1 feet to a 1/2-inch iron rod set for the southwest corner of this tract;
- THENCE N 02° 31' 39" E, 77.1 feet to a 1/2-inch iron rod set for the northwest corner of this tract;
- THENCE N 83° 53' 21" E, 365.9 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE S 65° 23' 14" E, 511.3 feet to a 1/2-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: December 14, 2010

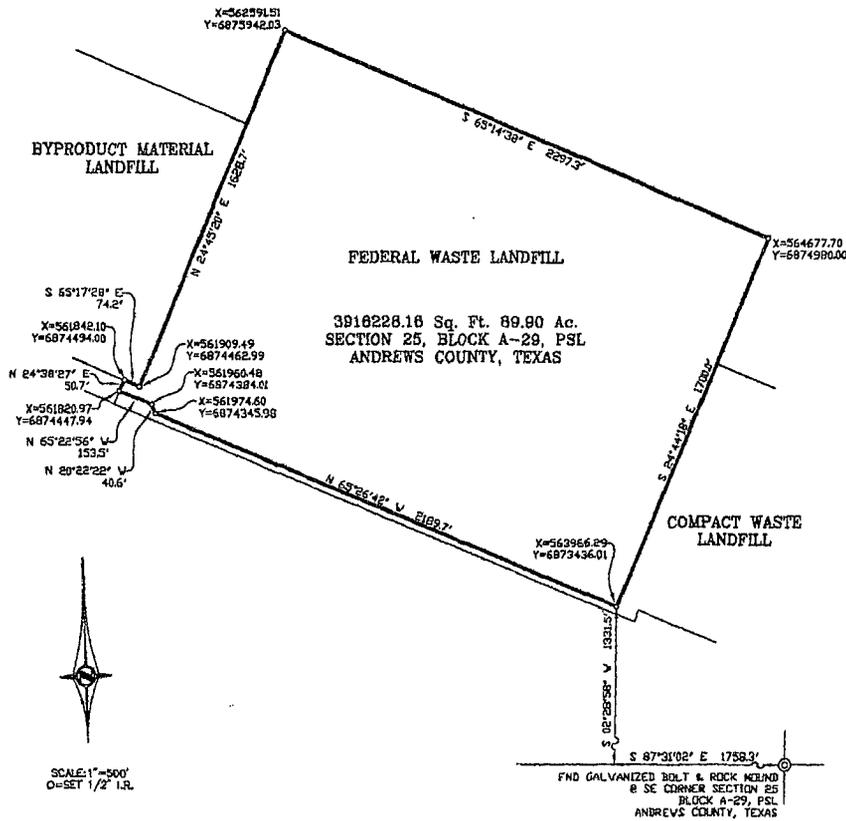
STARK SURVEYING, LLC

SS Job No. 80808  
Waste Control Specialists

By:



Jimmie Robert Stark  
Registered Professional Land Surveyor



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 1/2-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 1/2-inch iron rod set for a corner of this tract;
- THENCE N 20° 22' 22" W, 40.6 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE N 65° 22' 56" W, 153.5 feet to a 1/2-inch iron rod set for the southwest corner of this tract;
- THENCE N 24° 38' 27" E, 50.7 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE S 65° 17' 28" E, 74.2 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE N 24° 45' 20" E, 1628.7 feet to a 1/2-inch iron rod set for the northwest corner of this tract;
- THENCE S 65° 14' 38" E, 2297.3 feet to a 1/2-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: December 14, 2010

SS Job No. 80808  
Waste Control Specialists

By:

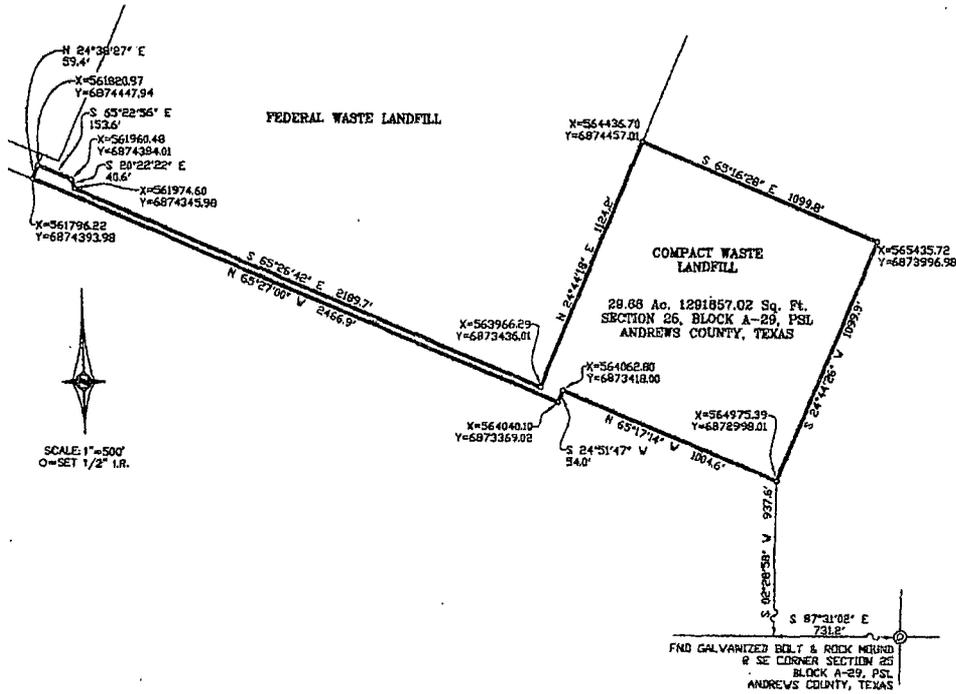
STARK SURVEYING, LLC

*[Signature]*



Jamie Robert Stark  
Registered Professional Land Surveyor

STARK SURVEYING, LLC,  
1308 N. 14<sup>TH</sup> STREET SUITE 1-200  
MOLAND, TEXAS



FIELD NOTE DESCRIPTION OF A 29.66 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a 1/4-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, 937.6 feet and S 87° 31' 02" E, 731.2 feet;

- THENCE N 65° 17' 14" W, 1004.6 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE S 24° 51' 47" W, 54.0 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE N 65° 27' 00" W, 2466.9 feet to a 1/2-inch iron rod set for the southwest corner of this tract;
- THENCE N 24° 38' 27" E, 59.4 feet to a 1/2-inch iron rod set for the most westerly northwest corner of this tract;
- THENCE S 65° 22' 56" E, 153.6 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE S 20° 22' 22" E, 40.6 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE S 65° 26' 42" E, 2189.7 feet to a 1/2-inch iron rod set for a corner of this tract;
- THENCE N 24° 44' 18" E, 1124.2 feet to a 1/2-inch iron rod set for the most northerly northwest corner of this tract;
- THENCE S 65° 16' 28" E, 1099.8 feet to a 1/2-inch iron rod set for the northeast corner of this tract;
- THENCE S 24° 44' 26" W, 1099.9 feet to the place of beginning and containing 1291857.02 square feet or 29.66 acres of land.

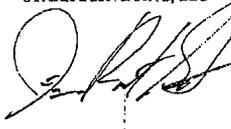
Note: Coordinates are Texas State Plane NAD 83 Texas North Central Zone in US Survey Feet, with a Scale Factor of 0.99996852, Bearings are Grid and have a Theta Angle of -02° 29' 13".

Dated: December 14, 2010

SS Job No. 80808  
Waste Control Specialists

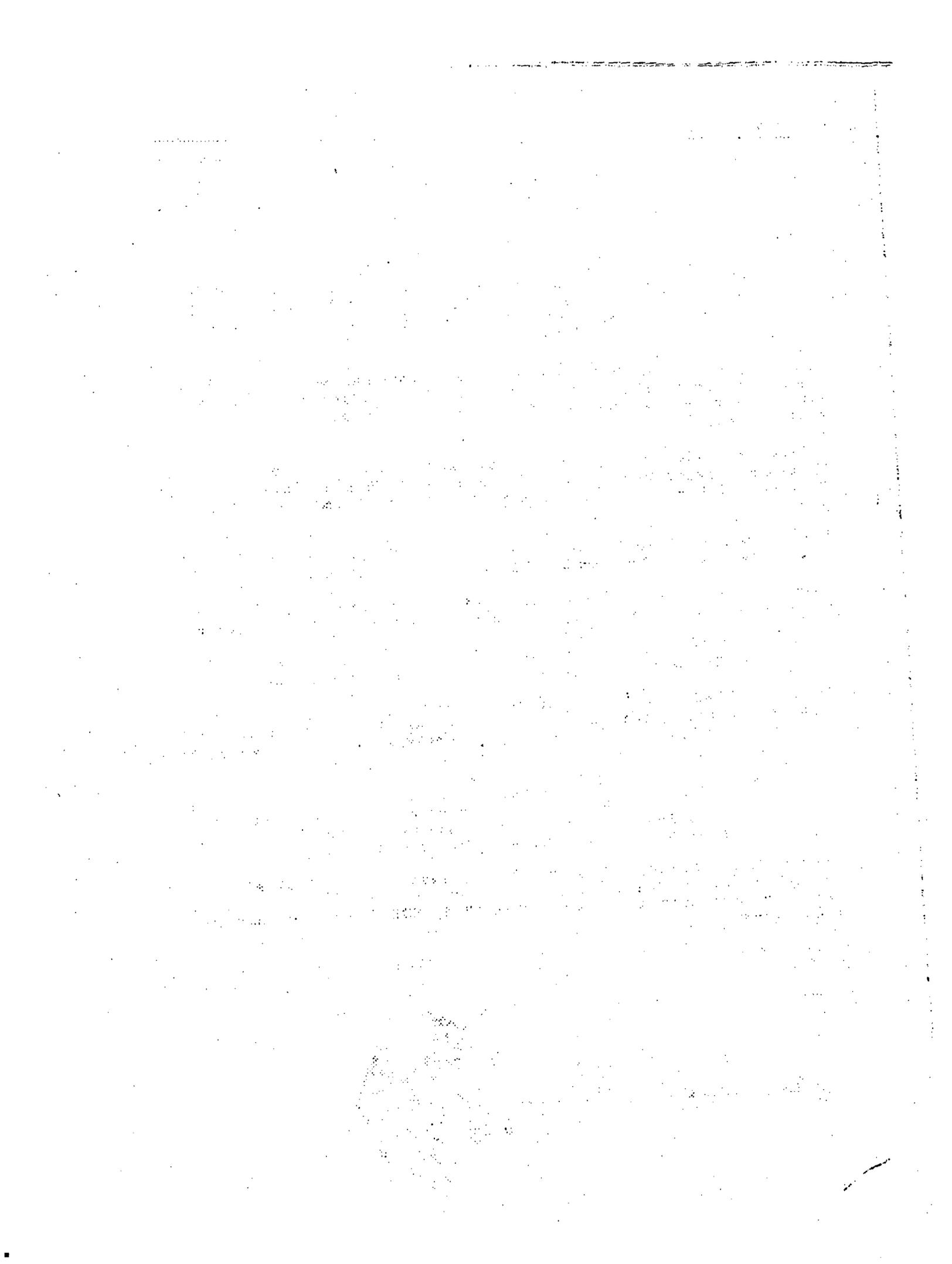
By:

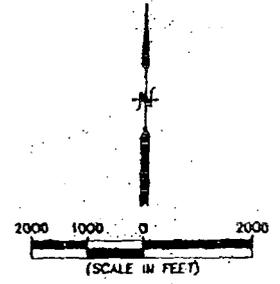
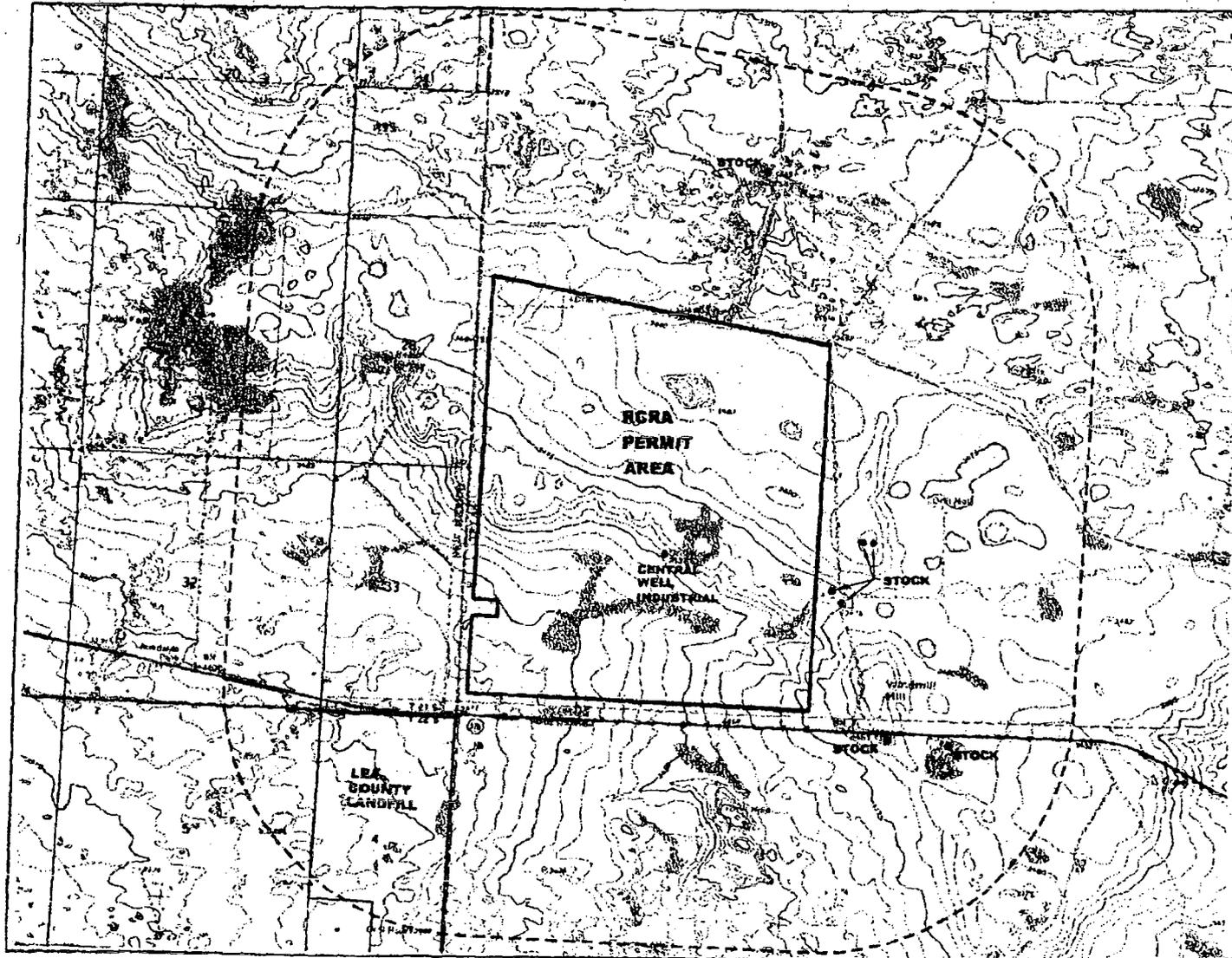
STARK SURVEYING, LLC




Jimmie Robert Stark  
Registered Professional Land Surveyor

STARK SURVEYING, LLC  
5300 N. "A" STREET, BLDG. 1-200  
MOLAND, TEXAS

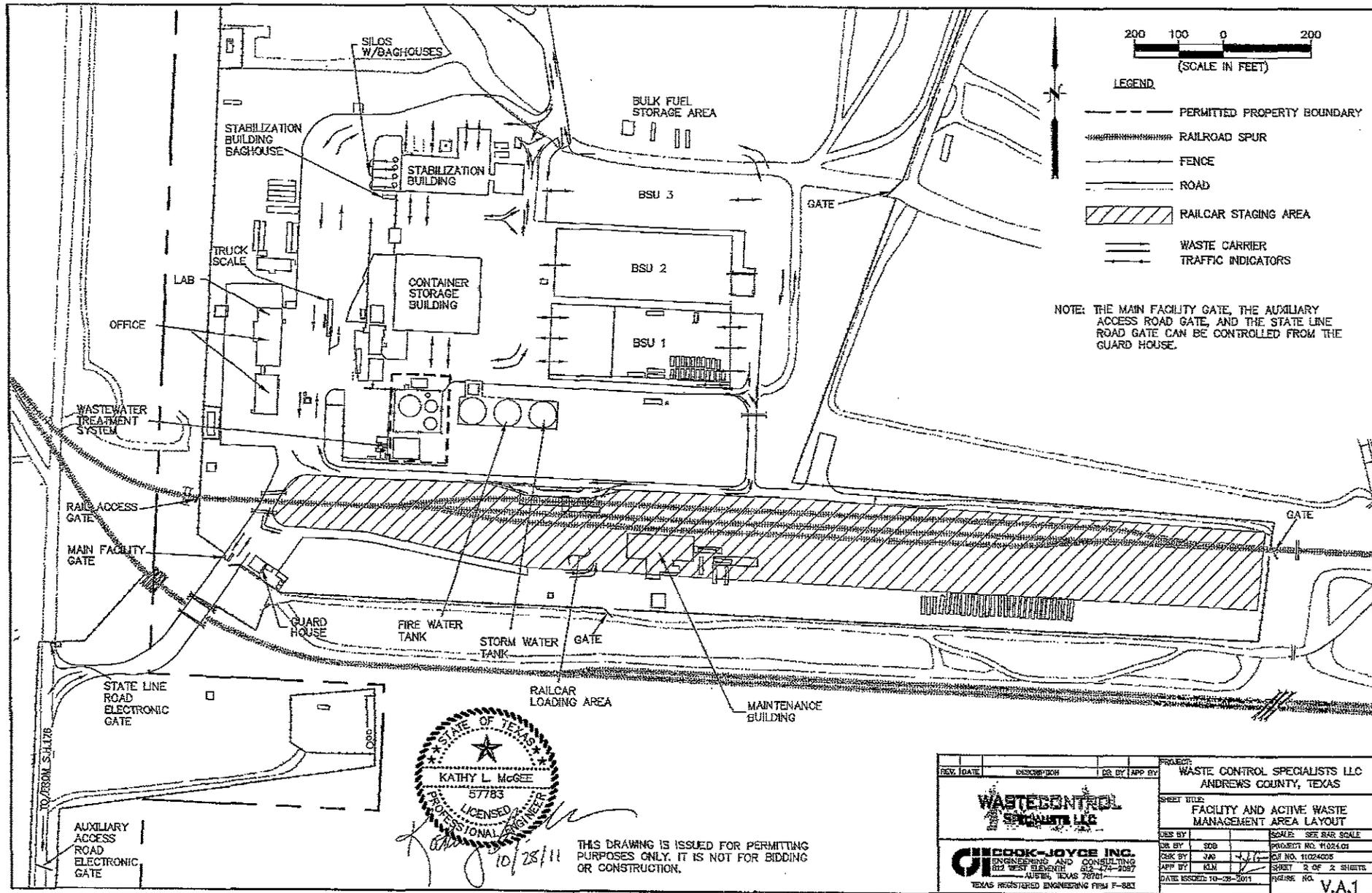




- LEGEND**
- PERMITTED PROPERTY BOUNDARY
  - - - - ADJACENT PROPERTY OWNED BY MCS
  - - - - ONE MILE RADIUS
  - WATER WELLS

BASE MAP SOURCE:  
U.S.G.S. 7.5 MIN. TOPOGRAPHIC  
EUNICE NE QUADRANGLE, 1969  
PHOTOREVISED 1979

DATE	1/11/17	SCALE	AS SHOWN
BY	PAJ	PROJECT NO.	50358
CHK BY	PAJ	CLIENT	WASTE CONTROL SPECIALISTS, LLC
APP BY	PAJ	SHEET 1 OF 1 SHEETS	
DATE	1/11/17	DRAWN BY	PAJ
REVISION: PART A APPLICATION C.1			



- LEGEND**
- PERMITTED PROPERTY BOUNDARY
  - ||||| RAILROAD SPUR
  - ===== FENCE
  - ===== ROAD
  - ||||| RAILCAR STAGING AREA
  - ====> WASTE CARRIER
  - ====> TRAFFIC INDICATORS

NOTE: THE MAIN FACILITY GATE, THE AUXILIARY ACCESS ROAD GATE, AND THE STATE LINE ROAD GATE CAN BE CONTROLLED FROM THE GUARD HOUSE.

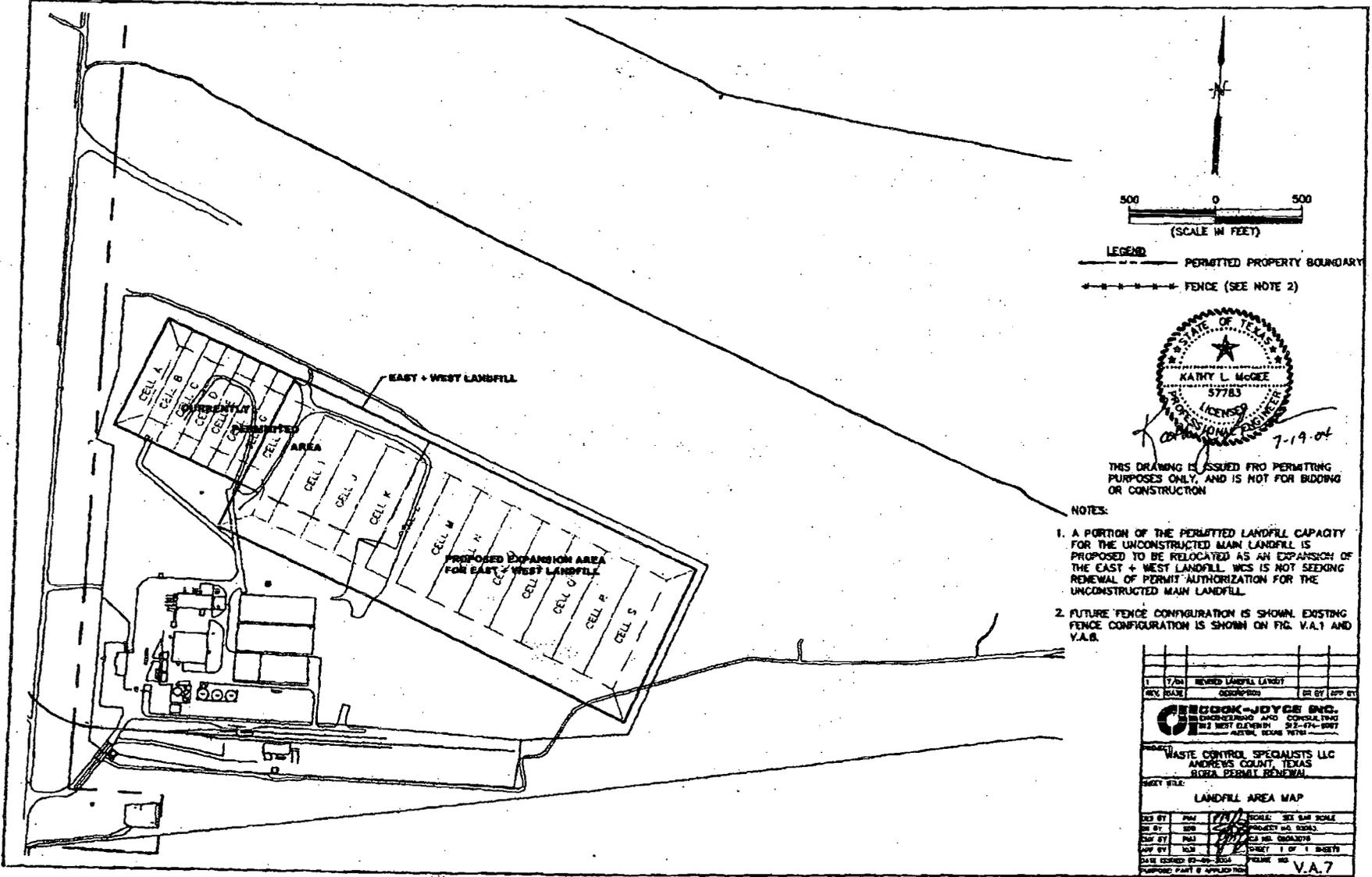


*K. McGee*  
10/28/11

THIS DRAWING IS ISSUED FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR BIDDING OR CONSTRUCTION.

REV. DATE	DESCRIPTION	DR. BY	APP. BY	PROJECT
				WASTE CONTROL SPECIALISTS LLC ANDREWS COUNTY, TEXAS
				SHEET TITLE
				FACILITY AND ACTIVE WASTE MANAGEMENT AREA LAYOUT
DES. BY	SCALE	SEE BAR SCALE		
DR. BY	SCALE	SEE BAR SCALE		
CHK. BY	SCALE	SEE BAR SCALE		
APP. BY	SCALE	SEE BAR SCALE		
DATE ISSUED	SCALE	SEE BAR SCALE		

V.A.1



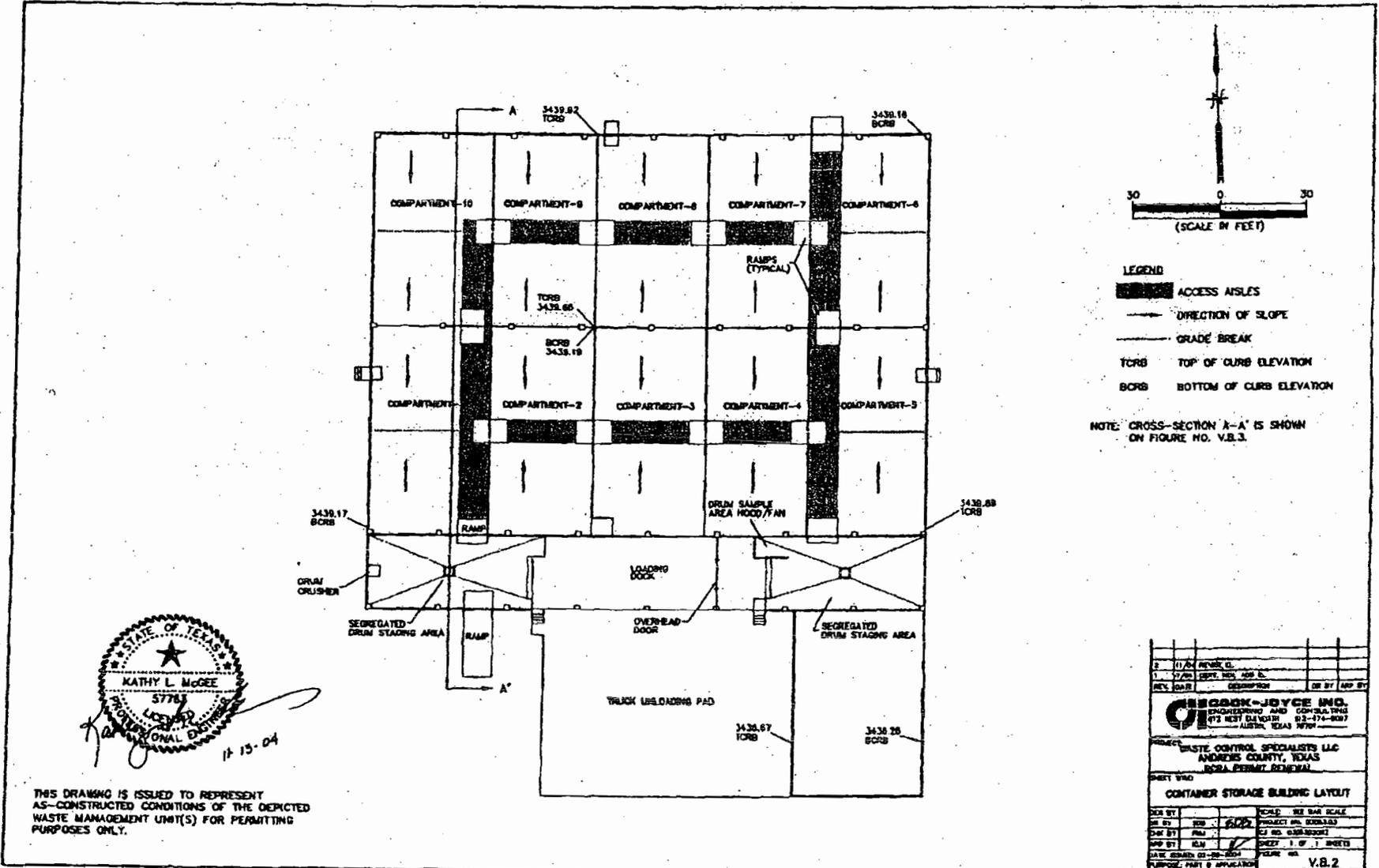
LEGEND  
 ————— PERMITTED PROPERTY BOUNDARY  
 ———+——+—— FENCE (SEE NOTE 2)



THIS DRAWING IS ISSUED FOR PERMITTING PURPOSES ONLY, AND IS NOT FOR BIDDING OR CONSTRUCTION

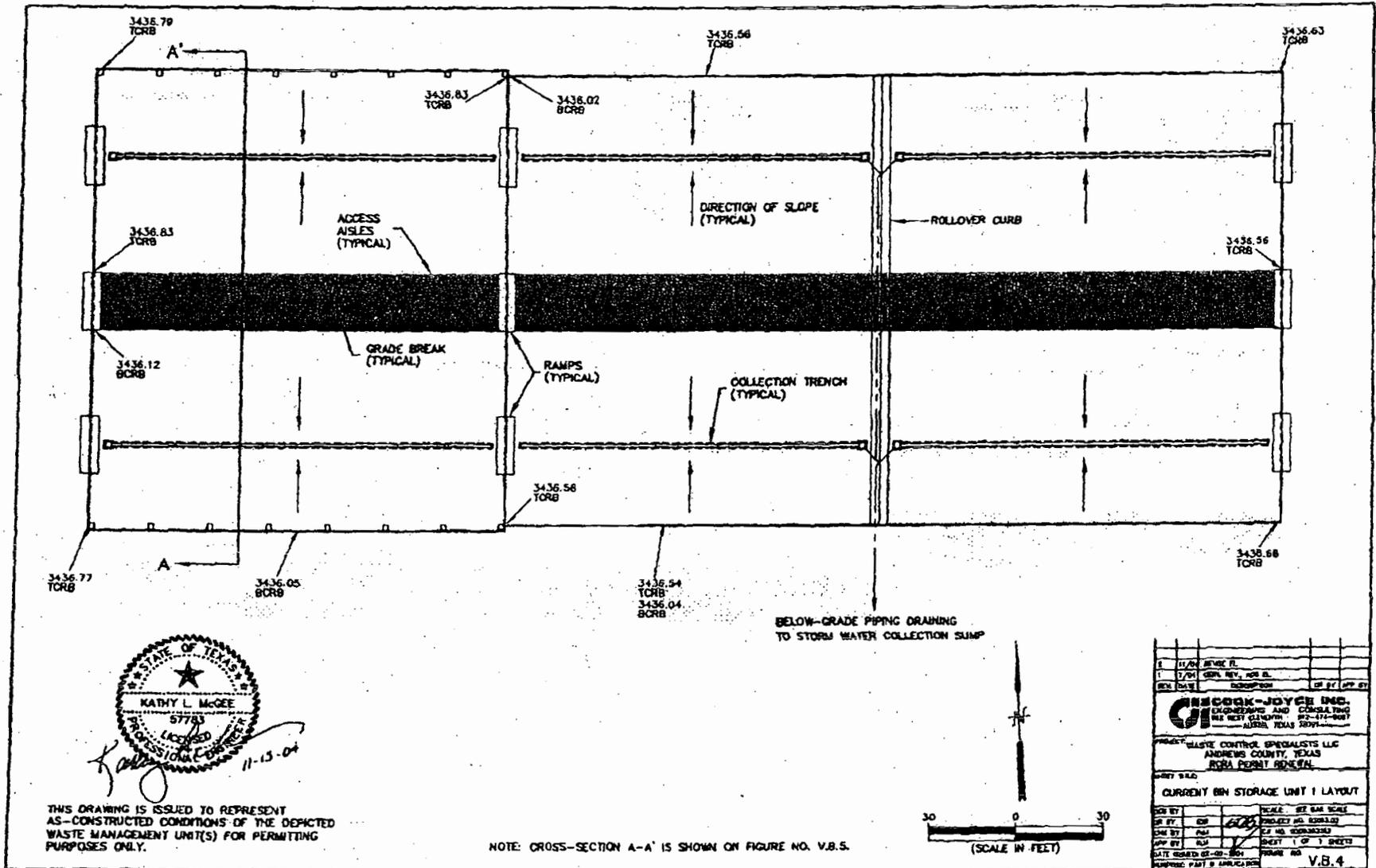
- NOTES:
1. A PORTION OF THE PERMITTED LANDFILL CAPACITY FOR THE UNCONSTRUCTED MAIN LANDFILL IS PROPOSED TO BE RELOCATED AS AN EXPANSION OF THE EAST + WEST LANDFILL. WCS IS NOT SEEKING RENEWAL OF PERMIT AUTHORIZATION FOR THE UNCONSTRUCTED MAIN LANDFILL.
  2. FUTURE FENCE CONFIGURATION IS SHOWN. EXISTING FENCE CONFIGURATION IS SHOWN ON FIG. V.A.1 AND V.A.8.

1	7/24	RENEWED LANDFILL LAYOUT		
REV. NO.	DESCRIPTION	DATE	BY	APP. BY
 GECON-JOYCE INC. ENGINEERING AND CONSULTING 212 WEST ELEVENTH AUSTIN, TEXAS 78765				
WASTE CONTROL SPECIALISTS LLC ANDREWS COUNTY, TEXAS PERMIT RENEWAL				
SHEET TITLE:				
LANDFILL AREA MAP				
DES. BY	MM	SCALE	SEE PLAN SCALE	
CHK. BY	MM	PROJECT NO.	50358	
APP. BY	MM	DATE	NOV 19 2004	
REV. BY	MM	DATE	NOV 19 2004	
DATE REVISION 03-04-04	REVISION NO.	V.A.7		
SUSPENDED PART 8 APPLIED FOR				



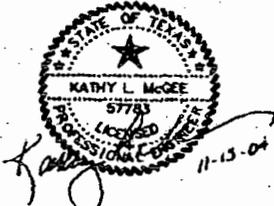
THIS DRAWING IS ISSUED TO REPRESENT AS-CONSTRUCTED CONDITIONS OF THE DEPICTED WASTE MANAGEMENT UNIT(S) FOR PERMITTING PURPOSES ONLY.

2	11/14/04	REVISED		
1	12/01/03	REVISED		
REV	DATE	DESCRIPTION	BY	APP BY
<b>PROJECT:</b> WASTE CONTROL SPECIALISTS, LLC ANDREWS COUNTY, TEXAS RCRA PERMIT REMOVAL				
<b>SHEET INFO:</b>				
<b>CONTAINER STORAGE BUILDING LAYOUT</b>				
DES BY	TCB	SCALE	SEE BAR SCALE	
CHK BY	TCB	PROJECT NO.	00000000	
APP BY	TCB	CU NO.	00000000	
DATE SUBMITTED	12-01-03	SHEET	1 OF 1 SHEETS	
				V.B.2



THIS DRAWING IS ISSUED TO REPRESENT AS-CONSTRUCTED CONDITIONS OF THE DEPICTED WASTE MANAGEMENT UNIT(S) FOR PERMITTING PURPOSES ONLY.

NOTE: CROSS-SECTION A-A' IS SHOWN ON FIGURE NO. V.B.5.

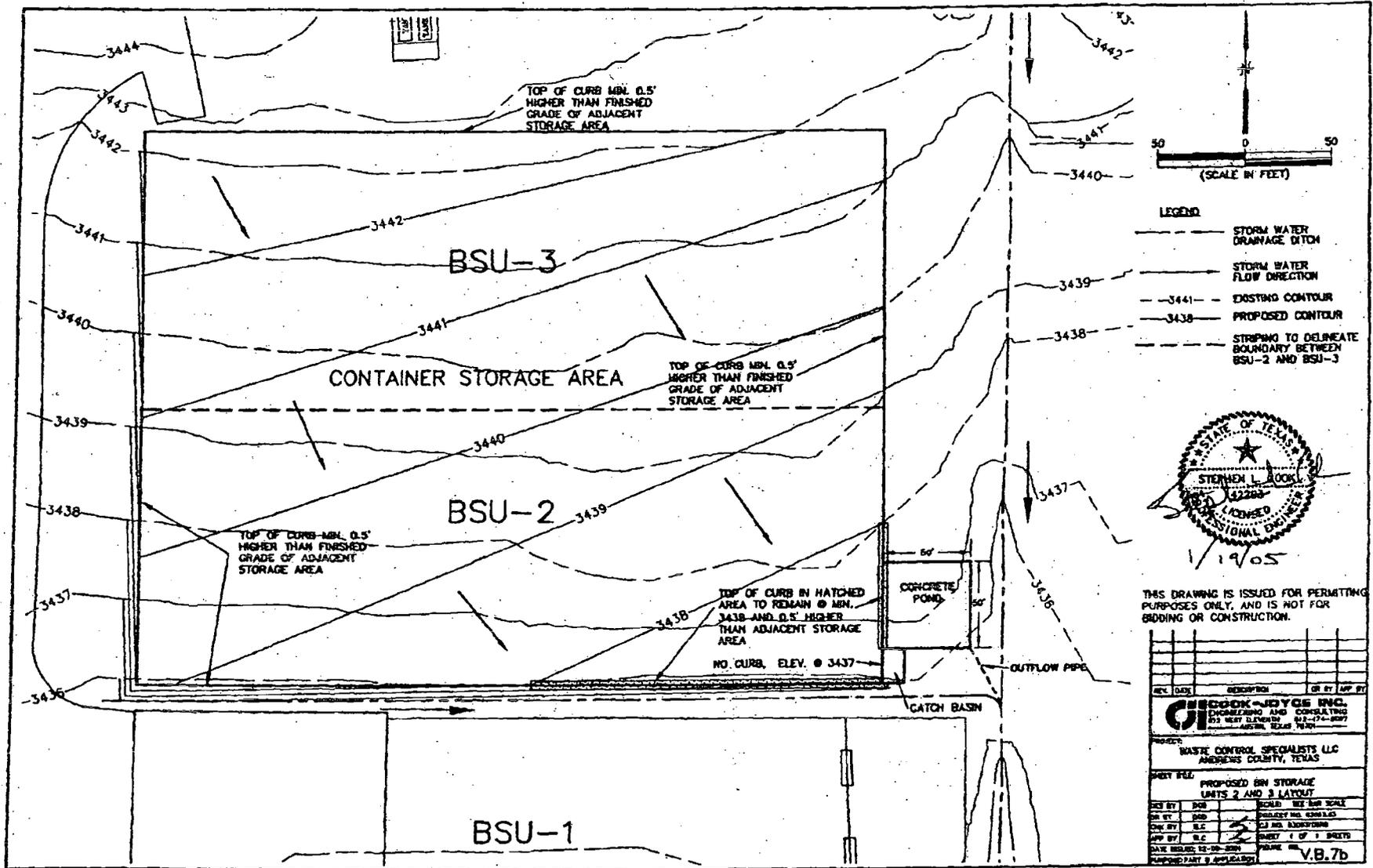


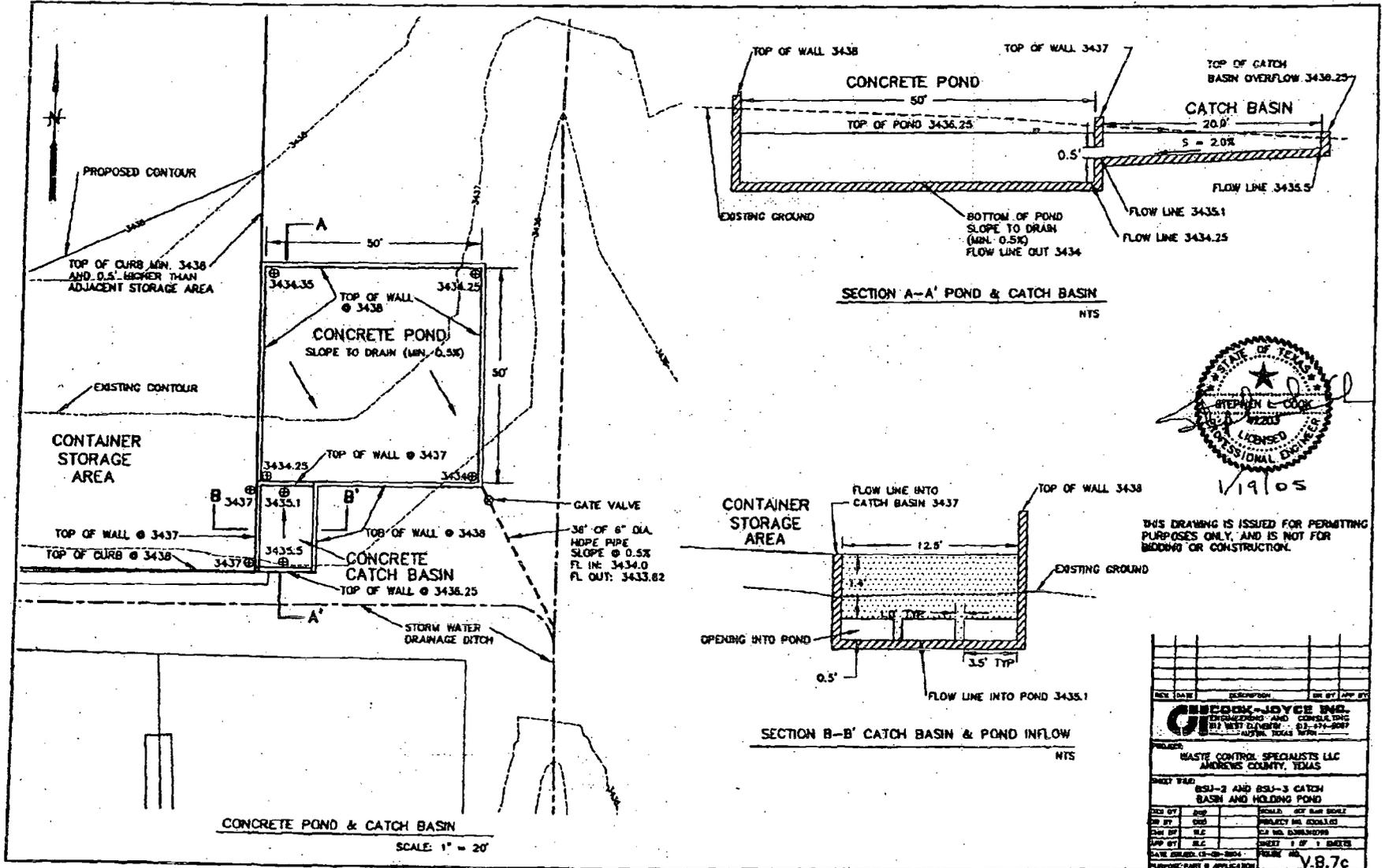
1	PLAN	REVISED	
1	TYP	REV. 10/13/04	
DATE		DESCRIPTION	APP. BY
<b>CRIBBOK-JOYCE INC.</b> ENGINEERING AND CONSULTING 114 WEST GLENVIEW ALBUQUERQUE, TEXAS 77001			
PROJECT: WASTE CONTROL SPECIALISTS LLC ANDREWS COUNTY, TEXAS RCRA PERMIT RENEWAL			
SHEET NO. 5			
CURRENT BIN STORAGE UNIT 1 LAYOUT			
DESIGNED BY	CHKD BY	DATE	SCALE
DRN BY	APP BY		
DATE REVISION 02-09-04			
PURPOSE: PART B APPLICATION			V.B.4



Hazardous Waste Permit No. 50358  
 Waste Control Specialists LLC

Attachment B  
 Sheet 7 of 19X 19





THIS DRAWING IS ISSUED FOR PERMITTING PURPOSES ONLY, AND IS NOT FOR BIDDING OR CONSTRUCTION.

REV.	DATE	DESCRIPTION	REV. BY	APP. BY

**ENGINEER - JUDY GEE, INC.**  
ENGINEERING AND CONSULTING  
BY: JUDY GEE  
111 WEST FLEMING - SUITE 474 - DORSET  
AUSTIN, TEXAS 78704

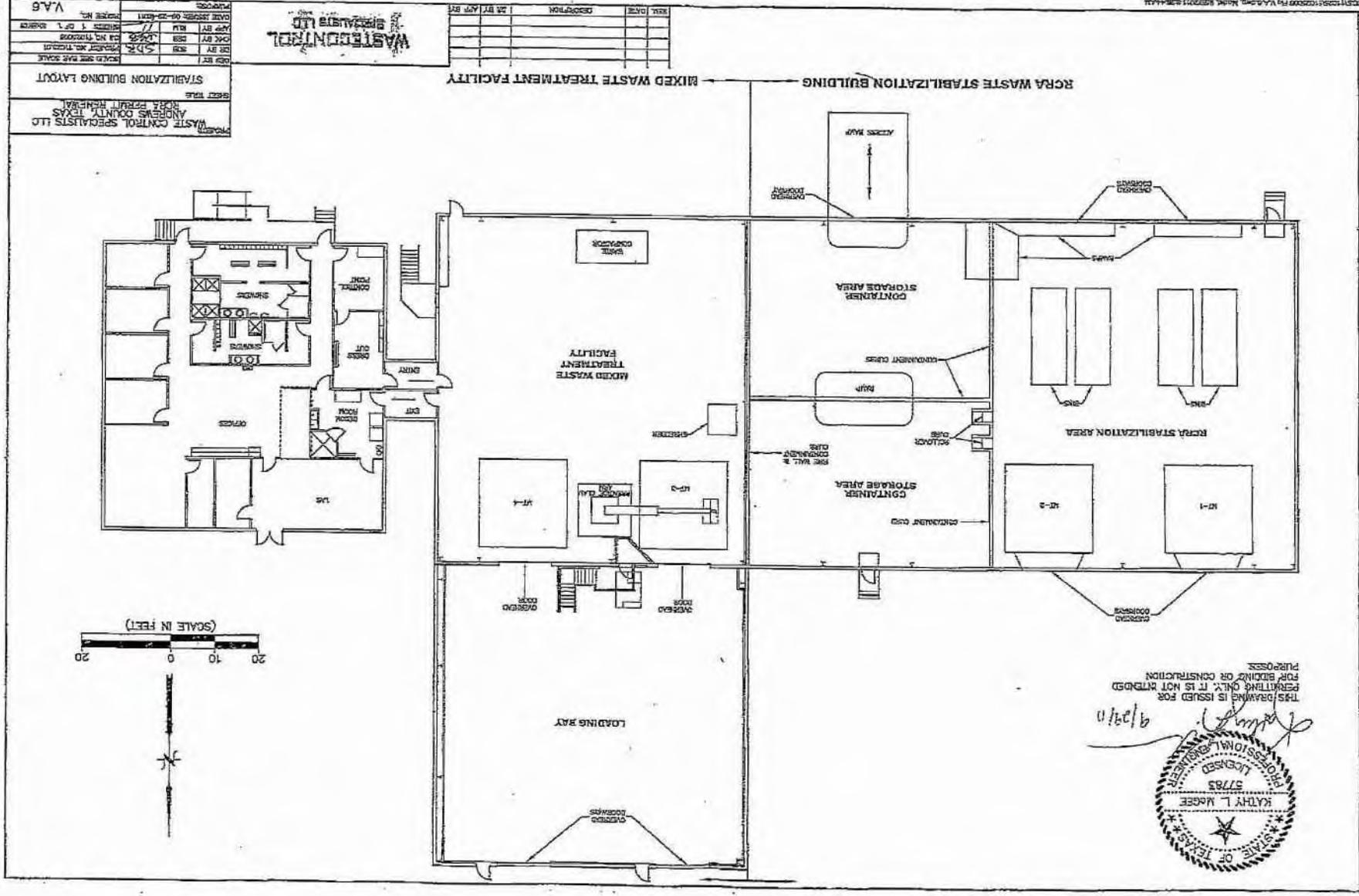
**WASTE CONTROL SPECIALISTS LLC**  
ANDREWS COUNTY, TEXAS

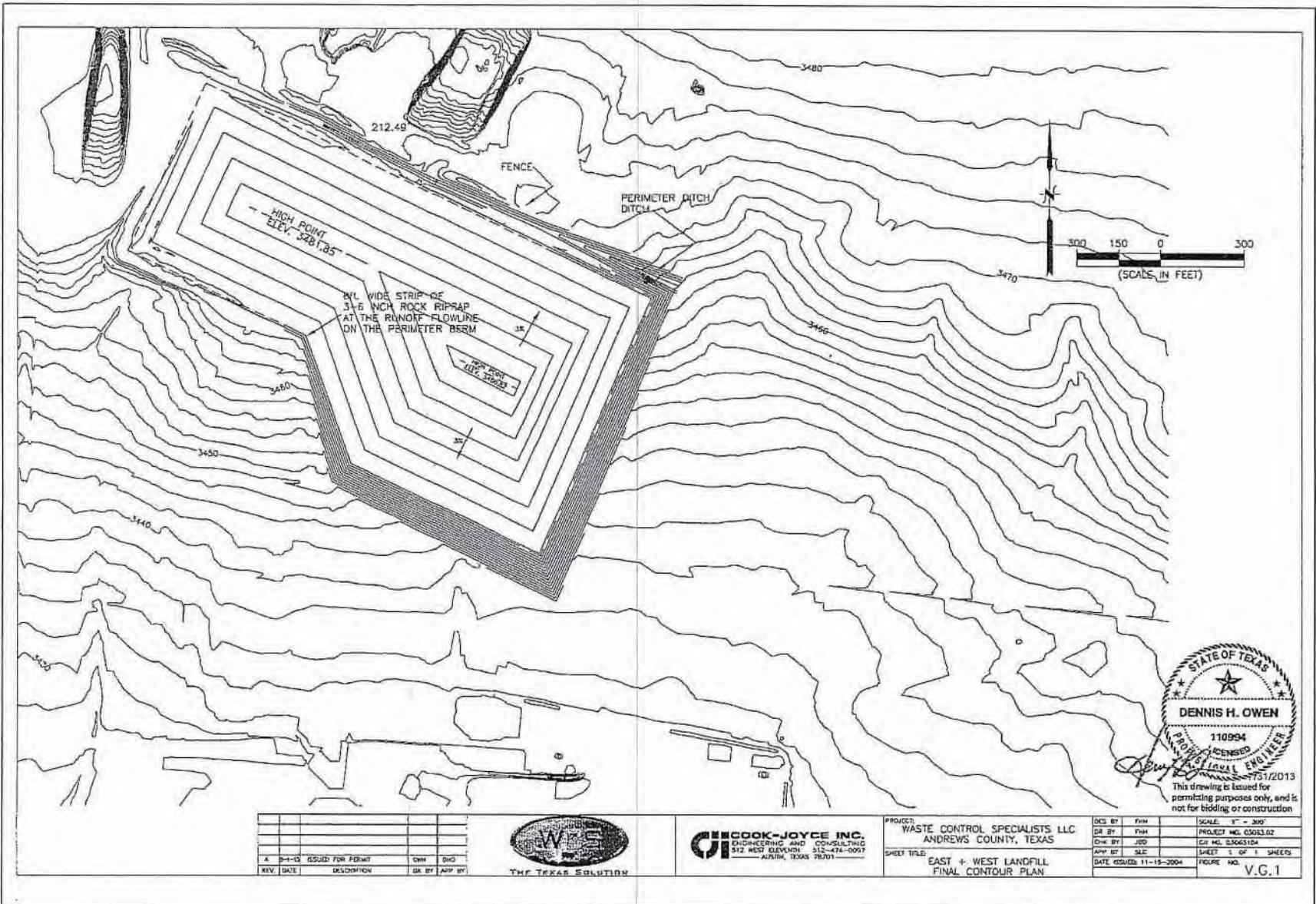
SHEET 8 OF 19  
851-2 AND 851-3 CATCH BASIN AND HOLDING POND

DESIGN			
BY			
CHECKED			
DATE			

DATE PLOTTED: 11-01-2004  
PLOTTER: HP-GL/PS  
SCALE: 1" = 20'

V.B.7c





REV	DATE	DESCRIPTION	DRN	CHK
A	04-15	ISSUED FOR PERMIT	DMH	DMH

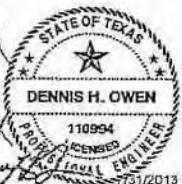


**COOK-JOYCE INC.**  
 ENGINEERING AND CONSULTING  
 512 WEST ELEVEN, 512-474-0097  
 AUSTIN, TEXAS 78701

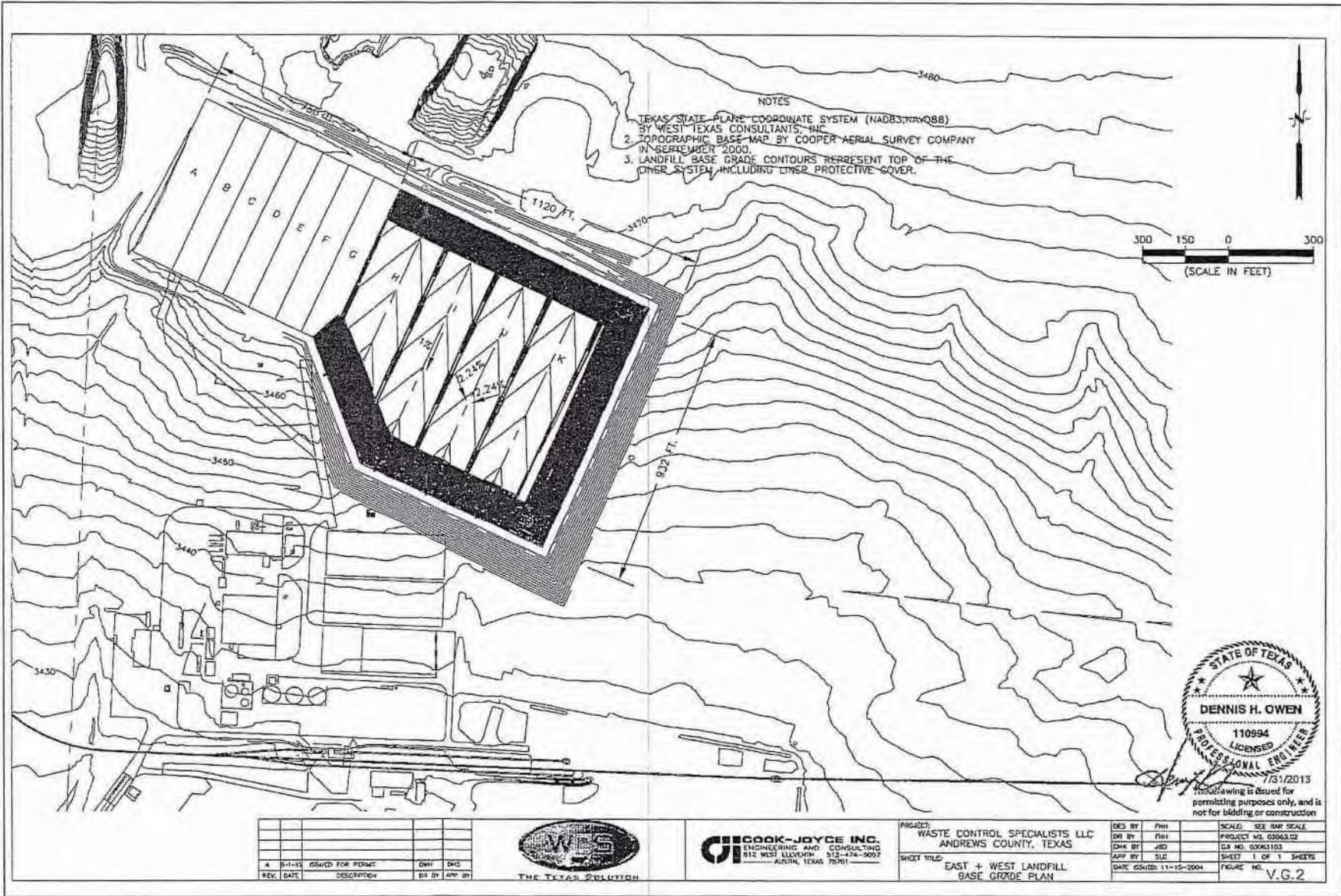
PROJECT: WASTE CONTROL SPECIALISTS LLC  
 ANDREWS COUNTY, TEXAS

SHEET TITLE: EAST + WEST LANDFILL  
 FINAL CONTOUR PLAN

DES BY: FHM	SCALE: 1" = 300'
DR BY: FHM	PROJECT NO: 05063.02
CHK BY: JJO	ED: MCG 05/05/14
APP BY: SAC	SHEET 1 OF 1 SHEETS
DATE ISSUED: 11-15-2004	FIGURE NO: V.G.1



This drawing is issued for permitting purposes only, and is not for bidding or construction.



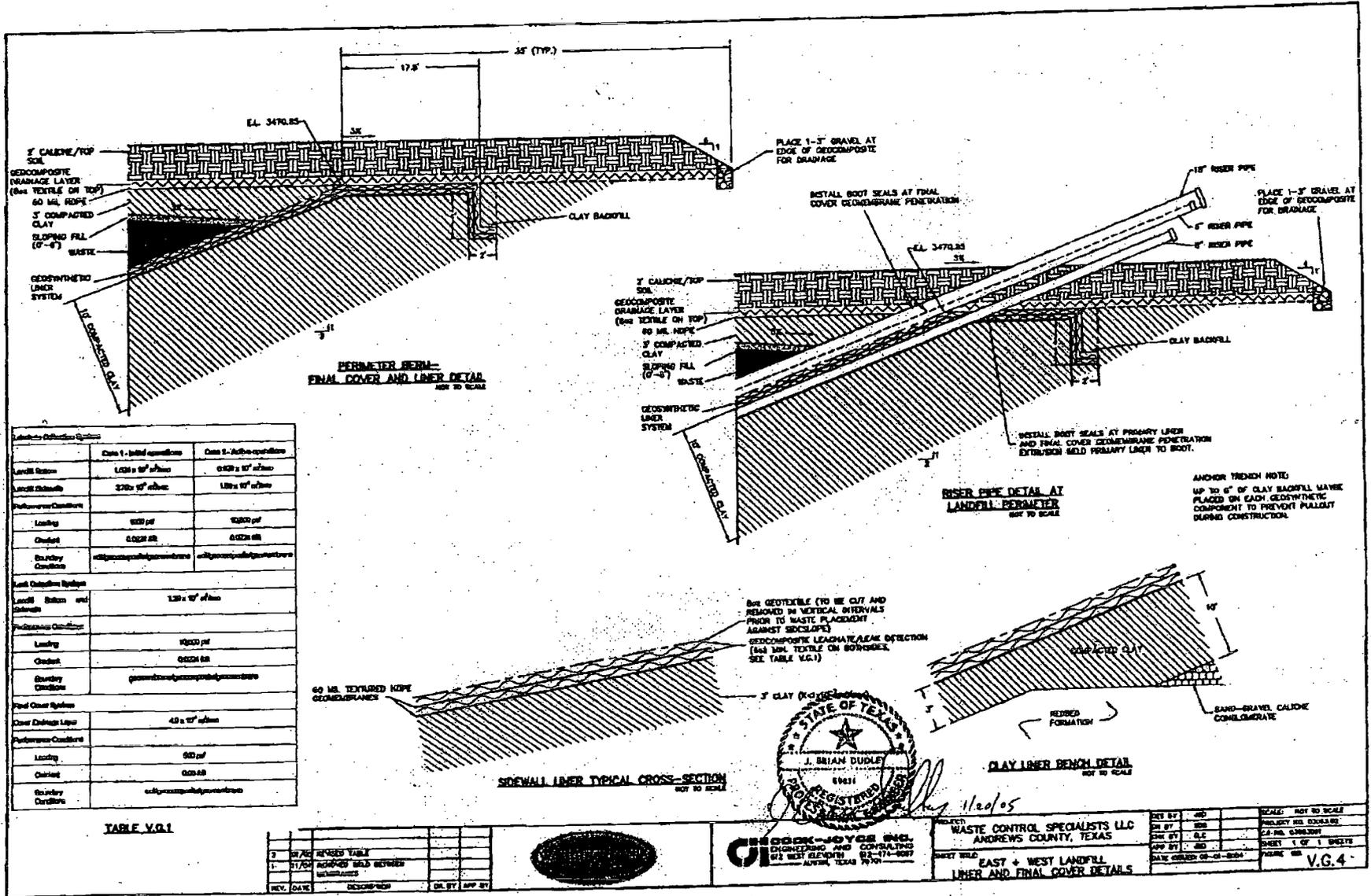
REV.	DATE	DESCRIPTION	DR BY	APP BY
4	3-1-13	ISSUED FOR PERMIT	DHW	DHW



**COOK-JOYCE INC.**  
 ENGINEERING AND CONSULTING  
 812 WEST LILBOURN  
 AUSTIN, TEXAS 78701

PROJECT: WASTE CONTROL SPECIALISTS LLC  
 ANDREWS COUNTY, TEXAS  
 SHEET TITLE: EAST + WEST LANDFILL  
 BASE GRADE PLAN

DES BY	CHK BY	SCALE	SIZE BAR SCALE
DHW	DHW		PROJECT NO. 05063.02
DHW	JED		CLR NO. 03063103
APP BY	SLE		SHEET 1 OF 1 SHEETS
DATE ISSUED: 11-15-2004			FIGURE NO. V.G.2



Leachate Collection System	Cells 1 - Initial operations	Cells 2 - Refill operations
Landfill System	1000 x 10' w/flow	1000 x 10' w/flow
Landfill Slopes	2:1 w/ 10' w/flow	1:1 w/ 10' w/flow
Performance Conditions		
Leaking	0.000 pf	0.000 pf
Cracking	0.000 pf	0.000 pf
Boundary Conditions	all geocomposites and geotextiles	all geocomposites and geotextiles
Leak Collection System		
Leachate System and Storage	120 x 10' w/flow	
Performance Conditions		
Leaking	0.000 pf	
Cracking	0.000 pf	
Boundary Conditions	geotextiles and geocomposites	
Final Cover System		
Cover Drainage Layer	40 x 10' w/flow	
Performance Conditions		
Leaking	0.00 pf	
Cracking	0.00 pf	
Boundary Conditions	all geocomposites and geotextiles	

TABLE V.G.1

REV.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
1	11/20/05	REVISED TABLE		
2	11/20/05	ADDED FIELD REVISED MEASUREMENTS		

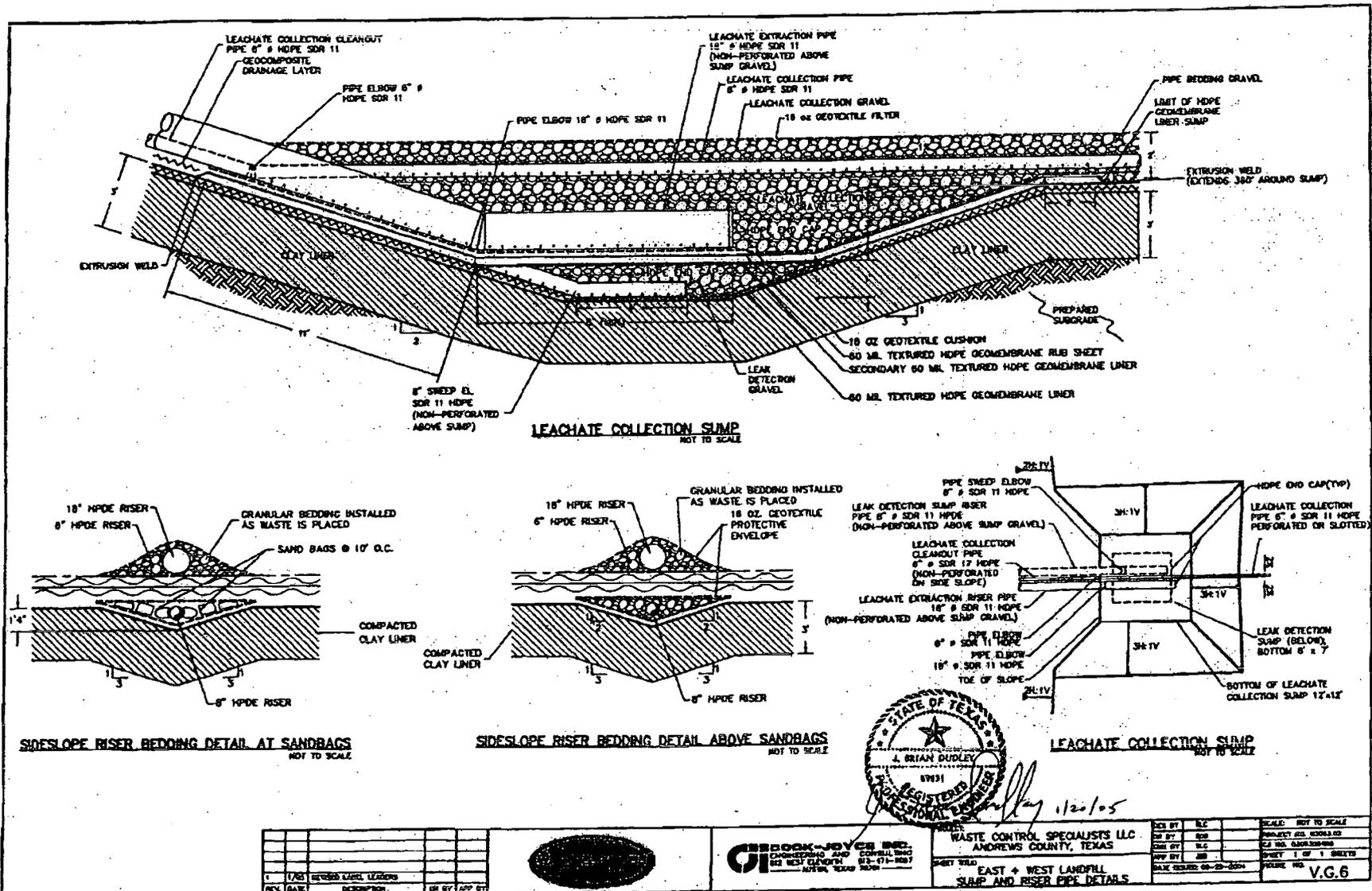


REGISTERED PROFESSIONAL ENGINEER  
J. BRIAN DUDLEY  
69411  
11/20/05

PROJECT: WASTE CONTROL SPECIALISTS LLC ANDREWS COUNTY, TEXAS  
SHEET TITLE: EAST + WEST LANDFILL LINER AND FINAL COVER DETAILS

DES BY: JGD	SCALE: NOT TO SCALE
CHK BY: JGD	PROJECT NO: 030412
APP BY: JGD	C.A. NO: 03082001
DATE ORDERED: 08-01-2004	SHEET 1 OF 1 SHEETS
	TABLE NO: V.G.4





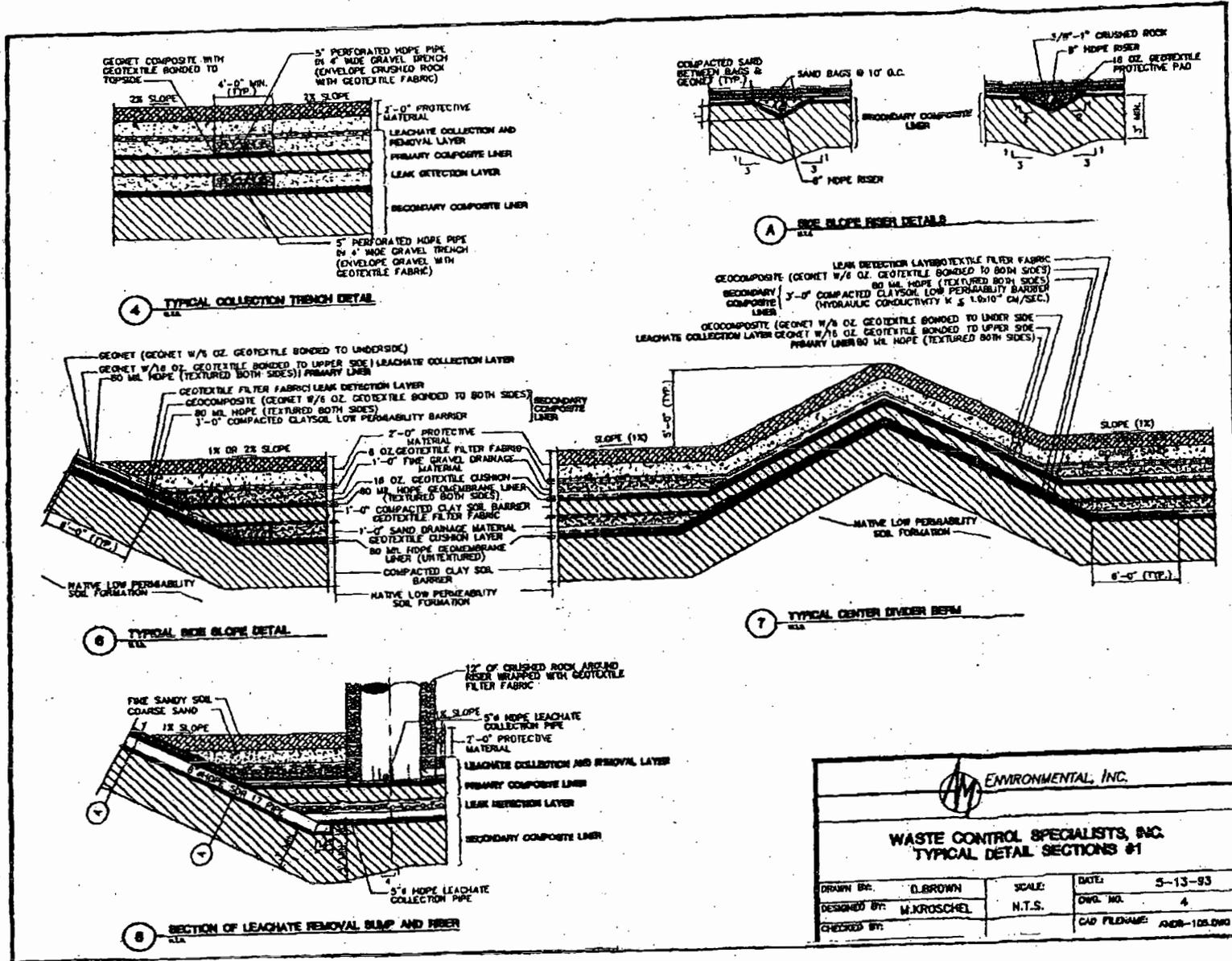
REV.	DATE	DESCRIPTION	BY	APP'D BY
1	1/20	REVISED SUMP DESIGN		



**WASTE CONTROL SPECIALISTS, LLC**  
ENGINEERING AND  
DESIGN CONSULTANTS  
1000 WEST GLENDALE  
AUSTIN, TEXAS 78703

PROJECT: EAST + WEST LANDFILL  
SUMP AND RISER PIPE DETAILS

DESIGN BY	DATE	SCALE	NOT TO SCALE
DESIGNED BY	02/05	PROJECT NO.	000003.00
CHECKED BY	02/05	C.D. NO.	0000000000
APP'D BY	JBD	SHEET	1 OF 1 SHEETS
DATE REVISION	00-20-2004	FIGURE NO.	V.G.6



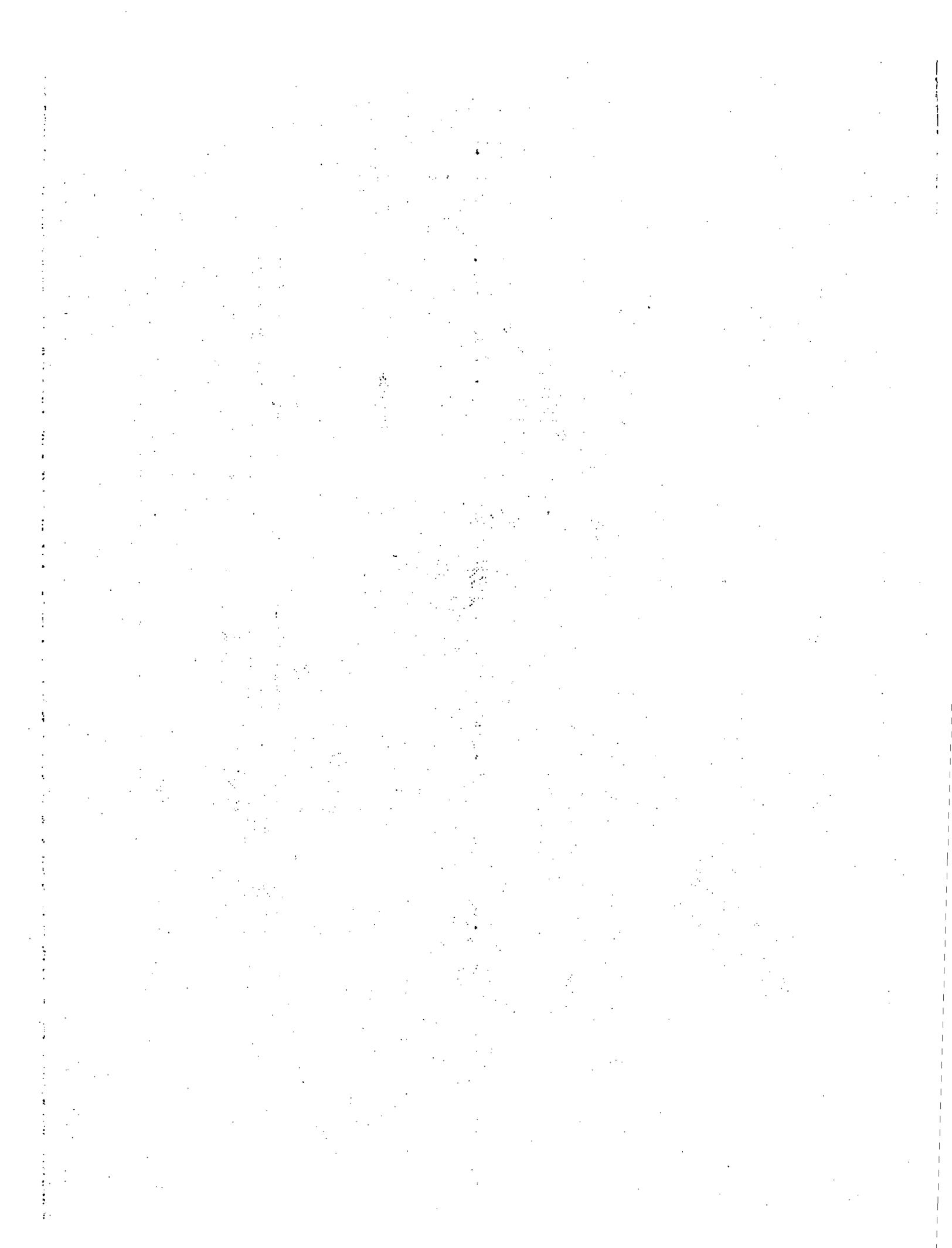
 ENVIRONMENTAL, INC.		
<b>WASTE CONTROL SPECIALISTS, INC.</b> TYPICAL DETAIL SECTIONS #1		
DRAWN BY: D. BROWN	SCALE: N.T.S.	DATE: 5-13-93
DESIGNED BY: M. KROSCHEL		DWG. NO. 4
CHECKED BY:		CAD FILENAME: ADR-105.DWG











**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 this Industrial and Hazardous Waste permit by reference as per Provision I.B.

**TCEO PART A Application Form**

- I. General Information
- II. Facility Background Information
- III. Wastes and Waste Management.

**TCEO PART B Application Form**

- I. General Information
- II. Facility Siting Criteria
  - A. Requirements for Storage or Processing Facilities, Land Treatment Facilities, Waste Piles, Storage Surface Impoundments, and Landfills
  - B. Additional Requirements for Landfills (and Surface Impoundments Closed as Landfills with Wastes in Place)
  - C. Flooding
  - D. Additional Information Requirements
- III. Facility Management
  - A. Compliance History and Applicant Experience
  - B. Personnel Training Plan
  - C. Security
  - D. Inspection Schedule
  - E. Contingency Plan
- IV. Wastes and Waste Analysis
  - A. Waste Management Information
  - B. Wastes Managed In Permitted Units
  - C. Sampling and Analytical Methods
  - D. Waste Analysis Plan
- V. Engineering Reports
  - A. General Engineering Reports
  - B. Container Storage Areas
  - C. Tanks and Tank Systems
  - D. Landfills

VI. Geology Report

- A. Geology and Topography
- B. Facility Ground Water

VII. Closure and Post-closure Care Plans

- A. Closure
- B. Closure Cost Estimate
- C. Post-closure
- D. Post-closure Cost Estimate
- E. Closure and Post-Closure Cost Summary

VIII. Financial Assurance

- A. Financial Assurance Information Requirements for all Applicants
- B. Applicant Financial Disclosure Statements

IX. Releases from Solid Waste Units & Corrective Action

X. Air Emission Standards - as Applicable

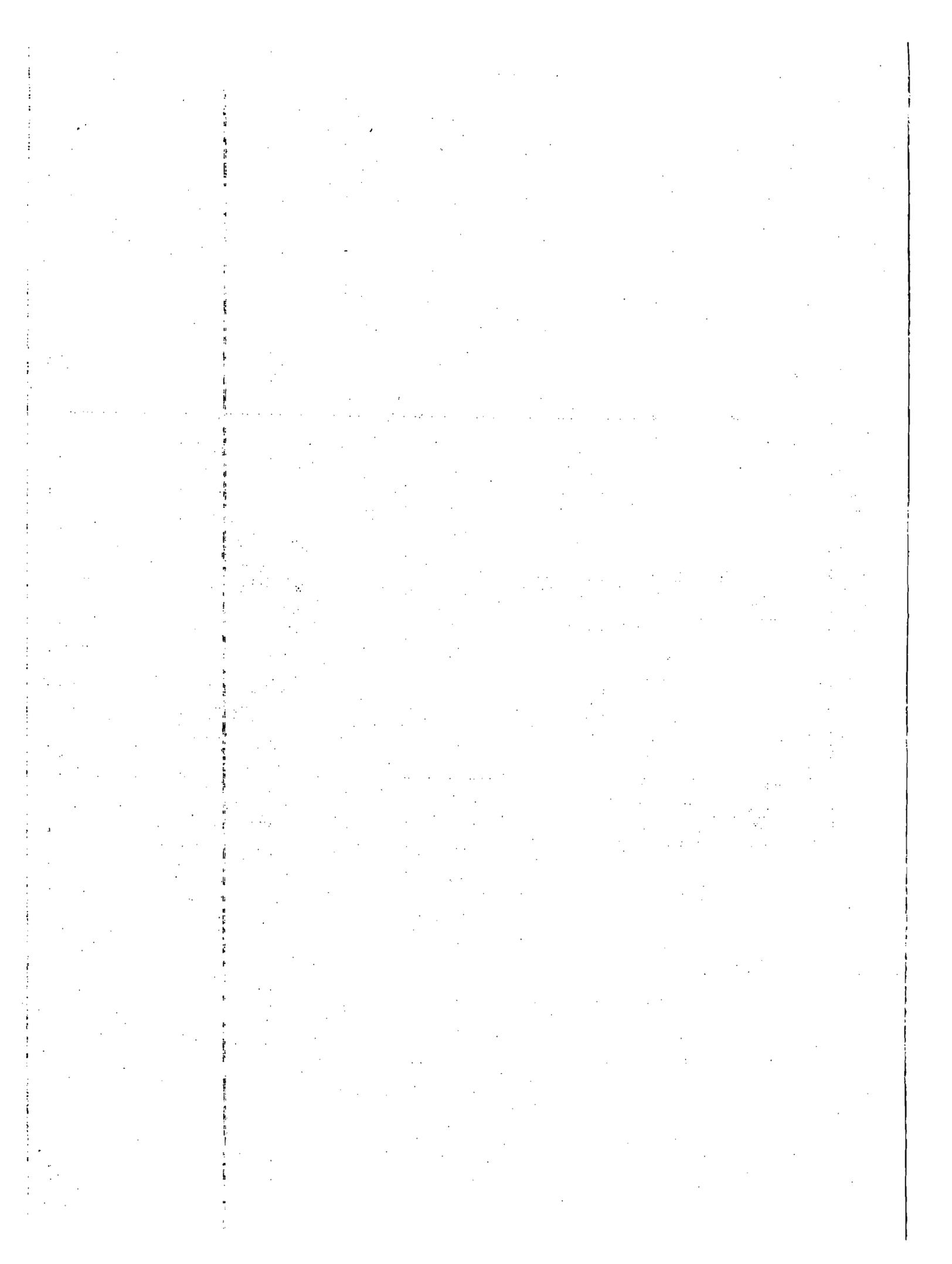
- A. Process Vents
- B. Equipment Leaks
- C. Tanks, Surface Impoundments, and Containers

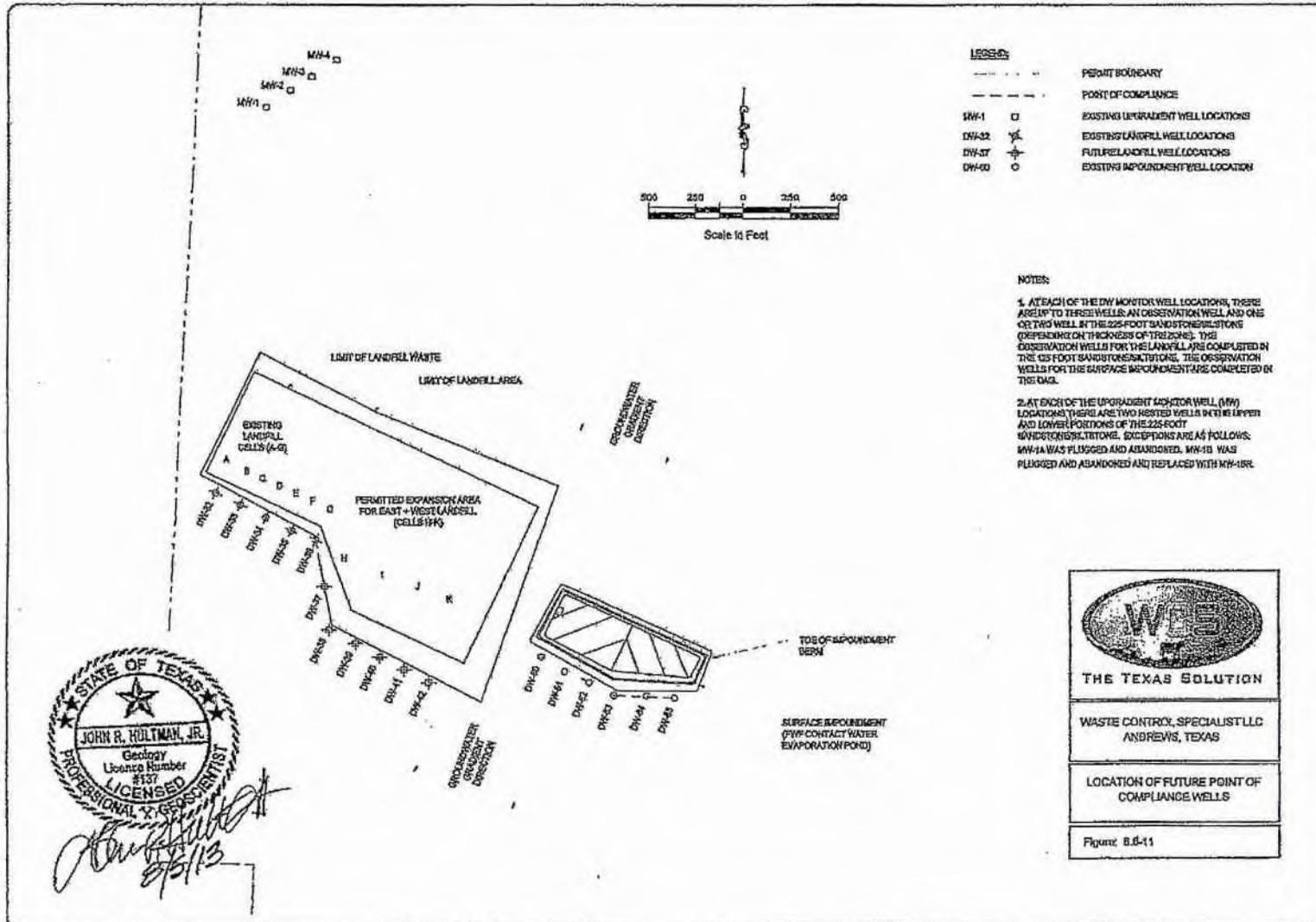
XI. Confidential Materials

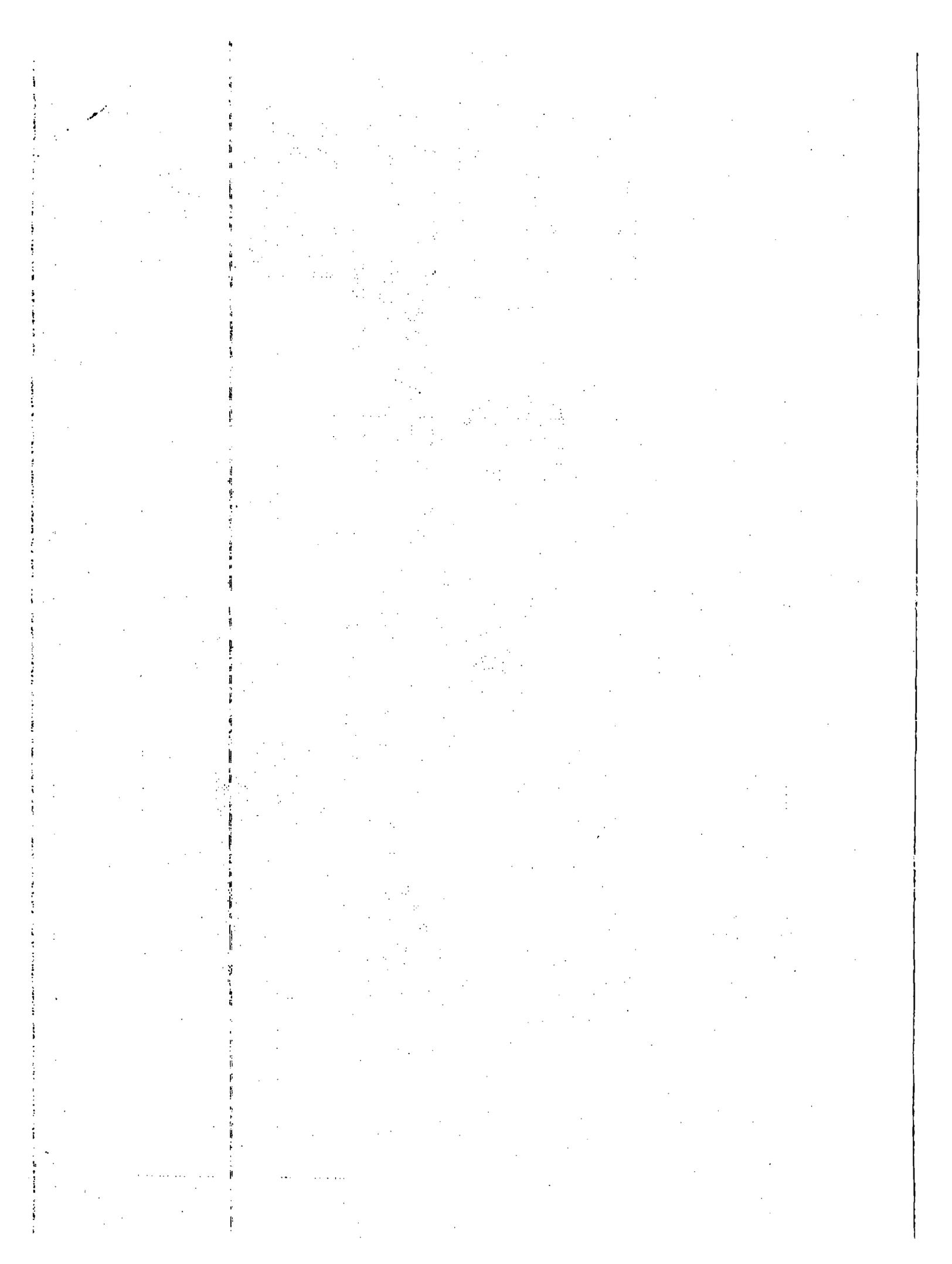


**AUTHORIZED FACILITY UNITS**

<b>TCEQ Permit Unit No.</b>	<b>Unit Name</b>	<b>Unit Description</b>	<b>Capacity</b>
1	Reserved	Not Applicable	Not Applicable
2	East + West Landfill	Disposal	2,310,000 cy
3	Reserved	Not Applicable	Not Applicable
4	Container Storage Building (Compartments 1 through 10)	Storage	275,000 gal (5,000 55-gal drums or equivalent)
5	Bin Storage Unit 1 (Bin Storage Areas 1 through 3)	Storage	3510 yd <sup>3</sup> (not to exceed 1000 yd <sup>3</sup> of land disposal restricted waste)
6	Bin Storage Unit 2	Storage	3240 yd <sup>3</sup> (not to exceed 2160 yd <sup>3</sup> of land disposal restricted waste)
7	Bin Storage Unit 3	Storage	3240 yd <sup>3</sup> (not to exceed 2160 yd <sup>3</sup> of land disposal restricted waste)
8.a.	Mixing Tank MT-1	Processing	85 cubic yards
8.b.	Mixing Tank MT-2	Processing	85 cubic yards
8.c.	Mixing Tank MT-3	Processing	85 cubic yards
8.d.	Mixing Tank MT-4	Processing	85 cubic yards
8.e	Stabilization Building Container Storage Area (North)	Storage	12,320 gal (224 55-gal drums or equivalent)
8.f	Stabilization Building Container Storage Area (South)	Storage	12,320 gal (224 55-gal drums or equivalent)
8.g	Waste Compactor	Processing	Not Applicable
9	Napalm Processing/Railroad Container Unloading Facility	Closed	Closed
10	Railcar Bulk Waste Unloading Area	Closed	Closed
11	Railcar Dumper Building	Active	Not Applicable
12	FWF Contact Water Evaporation Pond	Disposal	10,310,000 Gallons







**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 used must be in compliance with 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 PVC, stainless steel or PTFE.

The Permittee shall use well casing material below the saturated zone that yields samples for ground-water quality analysis that are unaffected by the well casing material.

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 precleaned 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 version). 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 sufficient water 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 engineering and/or geosciences 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 Texas Commission on Environmental Quality 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 engineering and/or geosciences 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 engineering and/or geosciences 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 ( $\pm 0.5$  ft.);
  - . bore hole diameter and well casing diameter;
  - . well depth ( $\pm 0.1$  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 ( $\pm 0.01$  ft. MSL);
  - . top of casing elevation ( $\pm 0.01$  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. 50358 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. 50358:" (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



CLASS1 PERMIT MODIFICATION  
TO  
HAZARDOUS WASTE PERMIT NO. 50358  
WASTE CONTROL SPECIALISTS, LLC. - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B.                      Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, and January 27, 2006 (Class 1 Modification- to update the emergency coordinator list in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



CLASS 1 PERMIT MODIFICATION  
TO  
HAZARDOUS WASTE PERMIT NO. 50358  
WASTE CONTROL SPECIALISTS, LLC. - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification- to update the emergency coordinator list in the Contingency Plan), and May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 1 PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS, LLC. - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification- to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and August 4, 2006 (Class 1 Modification for administrative and informational changes) 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. 50358 and should be attached thereto.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



CLASS 1 PERMIT MODIFICATION  
TO  
HAZARDOUS WASTE PERMIT NO. 50358  
WASTE CONTROL SPECIALISTS, LLC. - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification- to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006(Class 1 Modification for administrative and informational changes), and September 20, 2006(Class 1 Modification for administrative and informational changes), 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. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS1 PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS, LLC. - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification- to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006(Class 1 Modification for administrative and informational changes), September 20, 2006(Class 1 Modification for administrative and informational changes), and September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 2 PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS LLC

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), 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.

Sheet 36 of 62

Provision V.K                      Miscellaneous Units

Add permit Provision V.K.:

The permittee shall construct and operate the Railcar Dumper Building for unloading of hazardous and non hazardous waste from railcars directly into transport trucks. The wastes received through the Railcar Dumper Building shall be managed in accordance with the applicable provisions of this permit.

Table III.D.                    Inspection Table

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

Table III.E.3.                Emergency Equipment

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

Table IV.C.                    Sampling and Analytical Methods

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

Table V.K.                    Miscellaneous Units

Add Table V.K to the permit. (attached)

Attachment D                Authorized Facility Units

Replace the existing Attachment D with the revised Attachment D.

This Class 2 modification is part of Permit No. 50358 and should be attached thereto.

Issued Date:

August 22, 2008

  
For the Commission



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 1<sup>1</sup> PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS LLC - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

### 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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), and May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building) 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.

Table III.D. Inspection Table

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

Table III.E.3.                    Emergency Equipment

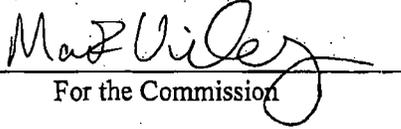
Replace the existing Table III.E.3. with the revised Table III.E.3. (attached)

Table IV.C.                    Sampling and Analytical Methods

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

This Class 1<sup>1</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: June 19, 2009

  
For the Commission



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 1<sup>1</sup> PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS LLC - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), and October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), 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.

Sheet 51 of 62

Provision VII.B. Financial Assurance for Closure

Provision VII.B.1. is revised to update the financial assurance for Closure.

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 \$6,693,035 (2008 dollars) including the East +West Landfill Cells (with A and B closed and Cells C through F open). The financial assurance shall be increased to \$13,184,741(2008 dollars) prior to using East +West Landfill Cells G through S as shown on Table VII.E.1.- Permitted Unit Closure Cost Summary. The financial assurance may be reduced to \$10,271,787 (2008 dollars) when final cover for East +West Landfill Cells A through D has been constructed, certified, and are approved by the Executive Director in accordance with the Provision VII.B.1.a.(2). The permittee shall provide financial assurance for the unconstructed proposed units in an amount not less than \$1,104,589 (2008 dollars) as shown on Table VII.E.1.-Permitted Unit Closure Cost Summary in accordance with Provision VII.B.1.a.(1). Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 335.179. Financial assurance is subject to the following:

a. Adjustments to Financial Assurance Amount:

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

b. Annual Inflation Adjustments

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

Sheet 57 of 62

Provision VII.H. Financial Assurance for Post-Closure

Provision VII.H.1. is revised to update the financial assurance for Post-Closure.

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 \$2,235,984 (2008 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 Section 335.152.

- a. Adjustment to financial Assurance Amount

At least 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, Sections 37.131 and 37.141.

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

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

Table VII.E.2.            Permitted Unit Post-Closure Cost Summary

Replace the existing Table VII.E.2. with the revised Table VII.E.2. (attached)

This Class 1<sup>1</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: December 9, 2009

  
For the Commission



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 1<sup>1</sup> PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPECIALISTS LLC - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), and December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



CLASS 1 PERMIT MODIFICATION  
TO  
HAZARDOUS WASTE PERMIT NO. 50358  
WASTE CONTROL SPECIALISTS LLC - ANDREWS

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

Provision I.B. Incorporated Application Materials

Provision I.B. is revised to include the modification application date.

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and May 20, 2010 (changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), 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. 50358 and should be attached thereto.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## CLASS 1 PERMIT MODIFICATION TO HAZARDOUS WASTE PERMIT NO. 50358 WASTE CONTROL SPEICLAISTS LLC – ANDREWS, ANDREWS COUNTY

Permit No. 50358 is hereby modified as follows:

Sheet 5 of 62

### Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

#### 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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006 and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), and December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), 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. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



Class 1<sup>1</sup> Permit Modification  
To  
Hazardous Waste Permit No. 50358  
Waste Control Specialists LLC. – Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 1 of 62

## Cover Page

The Cover Page is revised to read as follows:

Name of Permittee: Waste Control Specialists LLC.  
P.O. Box 1129  
Andrews, Texas 79714

Site Owner: Andrews County  
215 Northwest 1<sup>st</sup> Street  
Andrews, Texas 79714

Continuation Sheet 5 of 62

## Provision I.A.                      Size and Location of Site

This provision is revised to read as follows:

A permit is issued to Waste Control Specialists LLC (hereafter called the permittee), to operate a hazardous waste processing, storage, and disposal facility located one mile north of Highway 176 and 400 feet East of the Texas-New Mexico state line and approximately 30 miles West of Andrews, in Andrews County, Texas, drainage area of Segment 2311 in the Rio Grande River Basin (North Latitude 32E 26' 27.4 ", West Longitude 103E 3' 22.7"). The legal description of the facility submitted in Permit No. 50358 application dated February 9, 2004, and Class 1<sup>1</sup> Modification dated December 17, 2010, and January 18, 2011, 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".

## Provision I.B.                      Incorporated Application Materials

This provision is revised to read as follows:

Provision I.B.

Incorporated Application Materials

Provision I.B. is revised as follows:

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>st</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>st</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), and December 17, 2010 (Class 1<sup>st</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), 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.

Attachment A

Legal Description on Facility

Please replace the current "Attachment A" with the attached revised Attachment A – Legal Description of Facility.

This Class 1<sup>st</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: April 4, 2011

  
For the Commission









Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

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.

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

Replace Sheet of 1 of 13 of existing Table VI.B.3.b. with the attached revised TABLE VI.B.3.b. to include replacement well MW-1BR.

Table VI.B.3.c. GROUNDWATER SAMPLE ANALYSIS

Replace existing Table VI.B.3.C with the attached revised TABLE VI.B.3.C. to include replacement well MW-1BR.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.





Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

(Class 1<sup>st</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), 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 38 of 62

Provision VI.A.4.a.(1).      Detection Monitoring Program

This provision is revised to read as follows:

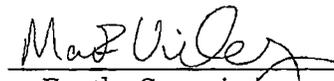
- (1) Background Wells are those wells that are unaffected by the operations of the unit. The Background Wells are depicted in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.- Unit Groundwater Detection Monitoring System (MW-1A&BR through MW-4A & B).

Table VI.B.3.c. GROUNDWATER SAMPLE ANALYSIS

Replace existing Table VI.B.3.C with the attached revised TABLE VI.B.3.C. to include SW-846 6020/EPA Method 200.8 for monitoring Metals in groundwater samples.

This Class 1<sup>st</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: June 20, 2011

  
For the Commission



# Texas Commission on Environmental Quality



Class 1 Permit Modification  
To  
Hazardous Waste Permit No. 50358  
Waste Control Specialists LLC. – Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.

Incorporated Application Materials

Provision I.B. is revised as follows:

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

Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

groundwater samples), June 2, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.





Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

groundwater samples), June 2, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



Class 3 Permit Modification to  
Hazardous Waste Permit No. 50358  
Waste Control Specialists LLC - Andrews, Andrews County, Texas

Continuation Sheet 2 of 62

Permit Table of Contents

## SECTION V AUTHORIZED UNITS AND OPERATIONS

Revised to remove "Reserved" from Section V.K. Miscellaneous Units. The revised Permit Table of Content reads:

K. Miscellaneous Units .....36

Continuation Sheet 5 of 62

### Provision I.B.

### Incorporated Application Materials

Provision I.B. is revised as follows:

#### 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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill

construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>st</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>st</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building) 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.

Sheet 36 of 62

Provision V.K

Miscellaneous Units

Permit Provision V.K. is revised as follows:

1. The permittee shall construct and operate the Railcar Dumper Building identified in Table V.K. - Miscellaneous Units for unloading of hazardous and non hazardous waste from railcars directly into transport trucks. The wastes received through the Railcar Dumper Building shall be managed in accordance with the applicable provisions of this permit.
2. The permittee shall construct and operate Waste Compactor for processing wastes as identified in Table V.K. - Miscellaneous Units subject to the limitations contained herein.
  - a. The permittee shall not process wastes in the Waste Compactor if they could cause the unit, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a) as incorporated by reference in 40 CFR 264.601]
  - b. The permittee shall not place ignitable or reactive waste in the Waste Compactor or in the secondary containment system, unless the procedures specified in 40 CFR 264.17 and 40 CFR 264 .198(a) are followed.
  - c. The permittee shall not place incompatible wastes and materials in the same unit or the same secondary containment system unless the procedures specified in 40 CFR 264.17 and 40 CFR 264.199 are met.
  - d. The permittee shall inspect the Waste Compactor in accordance with the frequency listed in Table III.D.- Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR 264.602.

- e. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart X-Miscellaneous Units for construction, installation, and operation of Waste Compactor.
- f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License RO4971 for construction, installation, and operations of the Waste Compactor. Where in conflict, the conditions listed in the Radioactive Materials License RO4971 take precedence over the conditions listed in this permit for construction, installation, and operation of the Waste Compactor.

Sheet 51 of 62

Provision VII.B.      Financial Assurance for Closure

Provision VII.B.1. is revised to update the financial assurance for Closure.

B      Financial Assurance for Closure

- 1. The permittee shall provide financial assurance for closure of all existing permitted units covered by this permit in an amount not less than \$10, 713,475 (2011 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. The permittee shall provide financial assurance for the unconstructed proposed units in an amount not less than \$ \$1,163,677 (2011 dollars) as shown on Table VII.E.1.-Permitted Unit Closure Cost Summary in accordance with Provision VII.B.1.a.(1). Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 335.179. Financial assurance is subject to the following:
  - a.      Adjustments to Financial Assurance Amount:
    - (1)      At least 60 days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1.- Permitted Unit Closure Cost Summary, the permittee shall increase the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit additional financial assurance documentation.
    - (2)      The amount of financial assurance for closure of existing units, may be reduced by the amount listed in Table VII.E.1.-Permitted Unit Closure Cost Summary, upon certification of closure of an existing permitted unit, in accordance with Provision VII.A.4., and upon written approval of the Executive Director.
  - b.      Annual Inflation Adjustments

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

Sheet 52 of 62

Provision VII.C.      Storage, Processing, and Combustion Unit Closure Requirements

Provision VII.C. is revised to include miscellaneous units.

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

Sheet 57 of 62

Provision VII.H.      Financial Assurance for Post-Closure

Provision VII.H.1. is revised to update the financial assurance for Post-Closure.

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 \$2,332,131 (2011 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 Section 335.152.

- a. Adjustment to financial Assurance Amount

At least 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, Sections 37.131 and 37.141.

Table III.D.      Inspection Table

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

Table IV.C.                    Sampling and Analytical Methods

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

Table V.K.                    Miscellaneous Units

Replace the existing Table V.K. with the revised Table IV.C. (attached)

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

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

Table VII.E.2.                Permitted Unit Post-Closure Cost Summary

Replace the existing Table VII.E.2. with the revised Table VII.E.2. (attached)

Attachment B                Authorized Facility Units

Replace Page 9 of 15 of the existing Attachment B with the revised Page 9 of 15 of Attachment D.

Attachment D                Authorized Facility Units

Replace the existing Attachment D with the revised Attachment D.

This Class 3 modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: May 10, 2012

  
For the Commission





Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

property from Waste Control Specialists LLC to Andrews County), April 12, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>1</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), April 27, 2012 ( Class 1 Modification to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.





Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1 Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## Class 3 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas

Continuation Sheet 2 of 62

Permit Table of Contents

### SECTION V AUTHORIZED UNITS AND OPERATIONS

Revise Section V.D.- Surface Impoundments in the Permit Table of Contents to read as follows:

D. Surface Impoundments.....23

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

#### 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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill

construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>st</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>st</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan) 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.

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Provision III.F

Special Permit Conditions

Permit Provision III.F.3. is added

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

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Provision V.D

Surface Impoundment

Permit Provision V.D. is revised as follows:

1. The Surface impoundment and its approved waste types are shown in Table V.D.1. - Surface Impoundments. The permittee is authorized to operate the surface impoundment for storage and processing of wastes subject to the limitations contained herein and the Part B application. The surface impoundment shall include liner systems as shown in Table V.D.6 - Surface Impoundment Liner System, and Attachment B.
  - a. Wastes authorized in Table IV.B (Wastes Authorized) for the surface impoundment shall meet all the applicable land disposal restrictions under 40 CFR Part 268, prior to placement in the surface impoundment.

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

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Provision V.G

Landfills

Permit Provision V.G.1. is revised as follows:

G. Landfills

1. The permittee may dispose of a total volume of 2.31 million cubic yards of hazardous waste in 11 cells (A through K) which are collectively known as East+West Landfill. The landfill cell(s) shall meet the specifications listed in Table V.G.1. - Landfills, Table V.G.6. - Landfill Liner System, Table V.G.7. - Landfill Leachate Collection System. The permittee is authorized to operate the permitted landfill for waste disposal subject to the limitations contained herein.

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VI. GROUNDWATER DETECTION MONITORING

Section VI. is revised to update the groundwater detection monitoring at the facility.

A. Groundwater Monitoring Program

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

1. Identification of Detection Monitoring Program Units

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

2. Capabilities of Detection Monitoring Systems

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

3. Point of Compliance

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

4. Detection Monitoring Program

The permittee .

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

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

- 1) Background Wells are those wells that are unaffected by the operations of the unit. The Background Wells are depicted in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (MW-1A&B through MW-4A & B).
  - 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 (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (DW-32A&B through DW-42 A&B and DW-60 through DW -65).
  - 3) The Detection Monitoring System shall also include Supplemental Wells, to establish groundwater quality and hydrogeologic conditions of the "125-foot zone" for the landfill (Permit Unit No. 2) and OAG Unit for the Surface Impoundment (Permit Unit 12). Supplemental monitoring wells listed on Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (SW-32 through SW-42 and SW-60 through 65) shall be inspected for the presence of liquids each time the detection monitoring system is sampled. Should any supplemental monitoring well contain liquids in an amount which may be practicably sampled, the supplemental monitoring well(s) shall be monitored in accordance with all of the requirements of Section VI, of this permit applicable to Point of Compliance (POC) wells.
    - b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care period in accordance with the parameter list and sampling schedule specified in Provisions VI.C.2, and VI.D.2, respectively.
    - c. The design, construction, maintenance and operation of the authorized components of the Detection Monitoring Program must be in accordance with this permit and approved Part B Permit Application Attachment VI., which is incorporated into this permit through 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 Supplemental Monitoring System and submit certification of this installation within sixty (60) days of installation, as described in Attachment F (Well Design and Construction Specifications). The Detection and Supplemental Monitoring Wells shall be installed in accordance with the specifications outlined in Attachment F (Well Design and Construction Specifications).

## 2. Replacement Wells

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

## 3. Well Management Activities Requiring Permit Modification

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

## 4. Plugging and Abandonment Procedures

- a. If a Detection Monitoring Well listed in 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 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 "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. The "225 foot zone" of the Dockum Group ranges in elevation from approximately 3250 feet above Mean Sea Level (MSL) to 3215 above MSL. The top of the uppermost aquifer/water-bearing zone is approximately 225 feet below ground surface (BGS). Ground water is typically encountered 225 feet BGS. A siltstone zone that occurs at a depth of 125 feet below ground surface and is locally named the "125-foot zone" of the Dockum Group shall also be monitored at the landfill (Permit Unit No. 2) in accordance with provision VI.A.4.a.(3). An upper single hydrogeologic unit which consists of unconsolidated or semi consolidated sand and gravel and is referred to as the undifferentiated Ogallala, Antler, Gatuna (OAG) unit occurs directly above the Dockum Group locally and is located approximately 0 to 30 feet BGS shall also be monitored at the surface impoundment (Permit Unit No. 12) in accordance with provision VI.A.4.a.(3).
2. Groundwater Detection Monitoring Parameters and Compliance
  - a. The permittee shall monitor wells identified in Provision VI.A.4.a. and listed in 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 background values. 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 units listed in Provision VI.A.1, shall remain in the Detection Monitoring Program during the active life of each unit and during any applicable Post-Closure Care period. After closure activities are completed for a specified unit and certification of closure is received by the Executive Director, any applicable Post-Closure Care period shall begin. If the Post-Closure Care Period has expired and evidence of statistically significant increase (SSI) of the Groundwater Detection Monitoring Parameters of 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 30 days prior to discontinuing the Detection Monitoring Program for the specified unit. Within 90 days of the notification, the permittee shall submit a final report to the Commission for the specified unit. The final report shall include the information required by the annual report of Provision VI.G.

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

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

2. Sampling and Analysis Frequencies and Parameters

- a. Frequencies of sampling shall be monthly, quarterly, semiannually or yearly, depending on the sampling objective. These periods of time are defined below:
  - 1) "Month" shall be a calendar month;
  - 2) "Quarter" shall be based on divisions of the calendar year (i.e., January through March, April through June, July through September, October through December);
  - 3) "Semiannual" shall be based on divisions of the calendar year (i.e., January through June, July through December) and consist of two consecutive quarters;
  - 4) "Annual" or "Year" shall be four consecutive quarters, beginning with the first quarter. Years shall be designated consecutively, beginning with the "first year", "second year", etc.; and,
  - 5) "Calendar year" shall be based on divisions of the calendar (i.e. January through December).
- b. Sampling of wells shall commence during the first complete quarter after initial issuance of this permit, or during the first quarter of operation if the permit is issued for a new unit. Samples shall be collected during the first thirty (30) days of the specified sampling frequency.
- c. In the first and subsequent years of the Detection Monitoring Program, the wells of Table VI.B.3.b.-Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to Provision VI.D.2.d.
- d. The permittee shall, during April and October of each year, sample the detection monitoring system wells. A sample shall be obtained from each of the even numbered upgradient wells and downgradient wells during the October sampling event, and a sample shall be obtained from each of the odd numbered upgradient wells and downgradient wells during the April sampling event. The permittee shall analyze each sample to determine the concentration of each detection monitoring parameter listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters. The designated upgradient groundwater monitoring listed in Table

VI.B.3.b.-Unit Groundwater Detection Monitoring System will only be analyzed for metal monitoring parameters listed in Table VI.B.3.c.- Groundwater Detection Monitoring Parameters.

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

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

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

### 3. Statistical Procedures for Data Evaluation

- a. For each POC Well sampled during each sampling event, the permittee shall determine whether there is evidence of an statistically significant increase (SSI) in the concentrations of each volatile and semivolatile organic monitoring Parameter listed Table VI.B.3.c.-Groundwater Detection Monitoring Parameters as outlined in Provision VI.D.3.b.
- b. The procedures that shall be used to determine if an increase has occurred over background values shall be direct comparison to the concentration limits listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters for volatile and semivolatile organics, for the following units identified in Provision VI.A.1.: TCEQ Permit Unit Nos. 2 and 12. To employ the identified evaluation procedure, the permittee is required to collect a minimum of one sample from each unit's Background and POC Wells following the sampling schedule outlined in Provision VI.D.2.d. If a measured value exceeds the concentration limit, the permittee shall promptly resample monitoring well(s) in question, determine the concentration of

the parameter(s) for which the exceedance 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. Statistical data evaluations shall be completed within sixty (60) days of the sampling date unless QA/QC procedures show that data is unacceptable and re-analysis or resampling must be performed. In such cases, the Executive Director will be notified as soon as it becomes apparent that the 60-day time limit to conduct data evaluation cannot be met.
- b. Statistical data evaluation shall determine whether there is evidence of an SSI for the volatile and semi-volatile organic monitoring Parameters listed in 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).
- c. In addition to the statistical evaluation procedures established in Provision VI.D.3., the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in Table VI.B.3.c. – Groundwater Detection Monitoring Parameters. This data evaluation shall consist of a review of graphical representations of each of the metal parameter concentrations in each well over time. This evaluation of the metals data shall be performed annually and included in the annual report required under Provision VI.G.

#### E. Response Requirements for Increase in Groundwater Monitoring Parameters

1. If the permittee has determined an SSI for any of the Groundwater Monitoring Parameters identified in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters in accordance with 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, the permittee shall submit to the Executive Director a permit amendment or modification to modify the Detection Monitoring Program and a compliance plan application to initiate a Compliance Monitoring Program and/or a Corrective Action Program for the specified unit. The permit and compliance plan applications must be submitted based on the following schedule:
  - 1) If ground water downgradient of the specified unit does not exceed the requirements in 30 TAC Section 335.158 for the proposed groundwater protection standard (GWPS), then within ninety (90) days, the permittee shall submit a permit amendment and a compliance plan application to establish a Compliance Monitoring Program for the specified unit;
  - 2) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an Alternate Concentration Limit (ACL) is not being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application to establish a Corrective Action Program for the specified unit.
  - 3) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an ACL is being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application with an ACL demonstration to establish a Corrective Action Program for the specified unit.
2. If the permittee determines that there is an SSI above (or for pH, a statistically significant variation from) background values for the Groundwater Detection Monitoring Parameters specified in Table VI.B.3.c., the permittee may demonstrate a source other than the RCRA-regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation. In such cases, the permittee shall perform the following actions:
  - a. Notify the Executive Director in writing within seven (7) days that the permittee intends to make a demonstration.
  - b. Within ninety (90) days, submit a report to the Executive Director which demonstrates that a source other than a RCRA-regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation.

- c. Submit to the Executive Director an application for a permit amendment or modification and a compliance plan application to make any appropriate changes to the Detection Monitoring Program at the facility. The applications shall be submitted in accordance with Provision VI.E.1.d.
- d. Continue to monitor ground water in accordance with the Detection Monitoring Program at the facility.

F. Revised Detection Monitoring Program

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

G. Annual Detection Monitoring Reporting Requirements

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

1. A statement whether an SSI has occurred over background values in any well during the previous calendar year period and the status of any increase events.
2. The results of all monitoring, testing, and analytical work obtained or prepared pursuant to the requirements of this permit, including a summary of background groundwater quality values, groundwater monitoring analyses, statistical calculations, graphical evaluations, and drawings.
3. The groundwater flow rate and direction in the uppermost aquifer. The rate and direction of ground water flow shall be established using, but not limited to, the data collected during the preceding calendar year's sampling events from the monitoring wells of the Detection Monitoring Program. The permittee shall also include in the report all documentation used to determine the groundwater flow rate and direction.
4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurements in each detection monitoring system well sampled during each monitoring event. All data or documentation used to establish the contour map should be included in the report.
5. Recommendation for any changes.
6. Any other items requested by the Executive Director.

H. Record Keeping Requirements

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

I. Compliance Scheduling Requirements

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

1. The permittee shall complete the installation of all wells for the landfill (Permit Unit No. 2) 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.

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Provision VII.B.      Financial Assurance for Closure

Provision VII.B.1. is revised to update the financial assurance for Closure.

B. Financial Assurance for Closure

1. The permittee shall provide financial assurance for closure of all existing permitted units covered by this permit in an amount not less than \$10, 719,478 (2011 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. The permittee shall provide financial assurance for the unconstructed proposed units in an amount not less than \$4,997,929 (2011 dollars) as shown on Table VII.E.1.-Permitted Unit Closure Cost Summary in accordance with Provision VII.B.1.a.(1). Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 335.179. Financial assurance is subject to the following:
  - a. Adjustments to Financial Assurance Amount:
    - 1) At least 60 days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1.- Permitted Unit Closure Cost Summary, the permittee shall increase the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit additional financial assurance documentation.
    - 2) The amount of financial assurance for closure of existing units, may be reduced by the amount listed in Table VII.E.1.-Permitted Unit Closure Cost Summary, upon certification of closure of an existing permitted unit, in accordance with Provision VII.A.4., and upon written approval of the Executive Director.

b. Annual Inflation Adjustments

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

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Provision VII.D.      Surface Impoundment Unit Closure Requirements

Provision VII.D. is revised to include surface impoundment.

D.      Surface Impoundment Closure Requirements

1. The permittee shall close the surface impoundment identified as TCEQ Permit Unit No. 12 (Surface Impoundment) in accordance with the approved Closure Plan, 40 CFR Part 264, Subpart G, 40 CFR 264.228, and the Texas Risk Reduction Program (TRRP) 30 TAC Chapter 350, Remedy Standard A (RSA).
2. The permittee shall comply with applicable requirements of Provision VII.A. for closure of Surface impoundment under Remedy Standard A for decontamination and removal of waste, waste residues, contaminated structures, and equipment.
3. Upon decontamination and/or removal of waste, waste residues, contaminated equipment and structures, the permittee shall conduct soil sampling underneath the surface impoundment to demonstrate soil contamination has not occurred. Sufficiently detailed analyses of samples representative of soils underneath the surface impoundment shall be performed to verify removal or decontamination of all waste and waste residues.
4. In order to achieve a RSA closure, the permittee must demonstrate that the monitoring of the detection monitoring system described in Permit Provision VI. for surface impoundment shows no statistically significant increase in the water quality of each down-gradient point of compliance well above the established background value or PCL. The permittee may use the groundwater data collected as part of the detection monitoring program to demonstrate this requirement.
5. If the surface impoundment is closed under RSA for Commercial/Industrial land use, the permittee shall comply with the institutional control requirements of 30 TAC Section 350.31(g) as appropriate.
6. If the permittee intends to remove all hazardous waste from a surface impoundment at closure and is not otherwise required to submit a Contingent Closure or Post-Closure Care Plan under 30 TAC Section 335.169(c)(1) or 40 CFR 264.228(c)(1), a permit modification which includes a Contingent Closure and Post-Closure Plan must be submitted no later than sixty (60) days (Closure Plan) or ninety (90) days (Post-Closure Care Plan) from the date that the permittee or the Executive Director determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of 30 TAC Section 335.174, or no later than thirty (30) days (Closure Plan) from that date if the determination is made during partial or final closure.

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Provision VII.H.      Financial Assurance for Post-Closure

Permit Provision V.H.1. is revised as follows:

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 \$\$ 2, 333,438 (2011 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 Section 335.152.

Table III.D.      Inspection Table

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

Table IV.B.      Wastes Managed In Permitted Units

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

Table IV.C.      Sampling and Analytical Methods

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

Table V.D.1.      Surface Impoundments

Include New Table V.D.1. for the addition of new surface impoundment.(attached)

Table V.D.6.      Surface Impoundment Liner System

Include New Table V.D.6, for the addition of new surface impoundment. (attached)

Table V.G.1.      Landfills

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

Table VI.B.3.b.      Unit Groundwater Detection Monitoring System (attached)

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

Table VI.B.3.c.      Groundwater Detection Monitoring Parameters

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

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

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

Table VII.E.2.      Permitted Unit Post-Closure Cost Summary

Replace the existing Table VII.E.2. with the revised Table VII.E.2. (attached)

Attachment B      Authorized Facility Units

Replace Page 2 of the existing Attachment B and add pages 16 through 19 for Attachment B.

Attachment D      Authorized Facility Units

Replace the existing Attachment D with the revised Attachment D.

Attachment E    Maps Indicating Point of Compliance Wells and Groundwater Monitoring Wells

Replace the existing Attachment E with the revised Attachment E.

This Class 3 modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: February 7, 2013

  
For the Commission



# Texas Commission on Environmental Quality



Class 1 Permit Modification to  
Hazardous Waste Permit No. 50358  
Waste Control Specialists LLC - Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.                      Incorporated Application Materials

Provision I.B. is revised as follows:

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>1</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19,

Class 1 Permit Modification  
Hazardous Waste Permit No. 50358

2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>1</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), and February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



Class 1 Permit Modification to  
Hazardous Waste Permit No. 50358  
Waste Control Specialists LLC - Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.                      Incorporated Application Materials

Provision I.B. is revised as follows:

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>1</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19,

2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1 Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests) 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

Sheet 19 of 62

Provision IV.B. Authorized Wastes

Permit Provision IV.B.3.b. is revised as follows:

- b. Radioactive materials/wastes unless the permittee is authorized to store and process these wastes in compliance with specific licensing and permitting requirements under Chapter 401 of the Texas Health and Safety Code. In accordance with 30 TAC 336.203, no person shall dispose of radioactive material unless that person has a license or an exemption from the Texas Commission on Environmental Quality (TCEQ) under Texas Health and Safety Code, §401.106(a).

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Provision IV.B. Authorized Wastes

Permit Provision IV.B.7. is revised as follows:

7. Fourteen days prior to acceptance of waste streams containing radioactive material subject to an exemption of the Texas Commission on Environmental Quality (TCEQ), the permittee shall provide notice in writing to the TCEQ that provides information on the waste and states that the radioactive material is subject to an exemption of the TCEQ. Such notification shall include waste volume, generator identification, physical form, characterization information, and sampling data. In lieu of characterization and sampling

data the permittee may provide exemption verification from the U. S. Nuclear Regulatory Commission which is based in TCEQ rule. The permittee shall maintain notification documentation at the facility and the documentation must be made available for review by the staff of the TCEQ upon request.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.                      Incorporated Application Materials

Provision I.B. is revised as follows:

### 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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>1</sup> Modification to authorize transfer of ownership of the property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19,

2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1 Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), and May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

Sheet 37 of 62

Provision VI.A.4.      Detection Monitoring Program

Permit Provision VI.A.4. is revised as follows:

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

Attachment B

The page numbers in Header for each Attachment B pages are revised to reflect the total number of pages as 19.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 2 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

**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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non-hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>1</sup> Modification to authorize transfer of ownership of the

property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>1</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), and June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A) 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.

Sheet 37 of 62

## VI. GROUNDWATER DETECTION MONITORING

Section VI. is revised to update the groundwater detection monitoring at the facility.

### A. Groundwater Monitoring Program

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

Monitoring System shall yield groundwater samples from the uppermost aquifer that represents the quality of background water and the quality of ground water at the point of compliance.

1. Identification of Detection Monitoring Program Units

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

2. Capabilities of Detection Monitoring Systems

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

3. Point of Compliance

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

4. Detection Monitoring Program

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

- a. A Detection Monitoring System shall, at a minimum, consist of three categories of wells, Background, Point of Compliance and Supplemental Wells, which will be used to establish groundwater quality for each RCRA-regulated unit.
  - 1) Background Wells are those wells that are unaffected by the operations of the unit. The Background Wells are depicted in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (MW-1BR through MW-4A & B).

- 2) Point of Compliance (POC) Wells are used to demonstrate compliance with the Detection Monitoring Parameters which are listed on Table VI.B.3.c.- Groundwater Detection Monitoring Parameters. POC Wells are designated in Attachment E (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (DW-32A&B through DW-42 A&B and DW-60 through DW -65).
  - 3) The Detection Monitoring System shall also include Supplemental Wells, to establish groundwater quality and hydrogeologic conditions of the "125-foot zone" for the landfill (Permit Unit No. 2) and OAG Unit for the Surface Impoundment (Permit Unit 12). Supplemental monitoring wells listed on Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (SW-32 through SW-42 and SW-60 through 65) shall be inspected for the presence of liquids each time the detection monitoring system is sampled. Should any supplemental monitoring well contain liquids in an amount which may be practicably sampled, the supplemental monitoring well(s) shall be monitored in accordance with all of the requirements of Section VI. of this permit applicable to Point of Compliance (POC) wells.
- b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care period in accordance with the parameter list and sampling schedule specified in Provisions VI.C.2. and VI.D.2. respectively.
  - c. The design, construction, maintenance and operation of the authorized components of the Detection Monitoring Program must be in accordance with this permit and approved Part B Permit Application Attachment VI., which is incorporated into this permit through 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 Supplemental Monitoring System and submit certification of this installation within sixty (60) days of installation, as described in Attachment F (Well Design and Construction Specifications). The Detection and Supplemental Monitoring Wells shall be installed in accordance with the specifications outlined in Attachment F (Well Design and Construction Specifications).

## 2. Replacement Wells

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

## 3. Well Management Activities Requiring Permit Modification

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

4. Plugging and Abandonment Procedures
    - a. If a Detection Monitoring Well listed in 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 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 "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. The "225 foot zone" of the Dockum Group ranges in elevation from approximately 3250 feet above Mean Sea Level (MSL) to 3215 above MSL. The top of the uppermost aquifer/water-bearing zone is approximately 225 feet below ground surface (BGS). Ground water is typically encountered 225 feet BGS. A siltstone zone that occurs at a depth of 125 feet below ground surface and is locally named the "125-foot zone" of the Dockum Group shall also be monitored at the landfill (Permit Unit No. 2) in accordance with provision VI.A.4.a.(3). An upper single hydrogeologic unit which consists of unconsolidated or semi consolidated sand and gravel and is referred to as the undifferentiated Ogallala, Antler, Gatuna (OAG) unit occurs directly above the Dockum Group locally and is located approximately 0 to 30 feet BGS shall also be monitored at the surface impoundment (Permit Unit No. 12) in accordance with provision VI.A.4.a.(3).
  2. Groundwater Detection Monitoring Parameters and Compliance
    - a. The permittee shall monitor wells identified in Provision VI.A.4.a. and listed in 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 background values. 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 units listed in Provision VI.A.1. shall remain in the Detection Monitoring Program during the active life of each unit and during any applicable Post-Closure Care period. After closure activities are completed for a specified unit and certification of closure is received by the Executive Director, any applicable Post-Closure Care period shall begin. If the Post-Closure Care Period has expired and evidence of statistically significant increase (SSI) of the Groundwater Detection Monitoring Parameters of 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 30 days prior to discontinuing the Detection Monitoring Program for the specified unit. Within 90 days of the notification, the permittee shall submit a final report to the Commission for the specified unit. The final report shall include the information required by the annual report of Provision VI.G.

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 evaluated (i.e., Quality Assurance/Quality Control (QA/QC)) in accordance with the current

edition of U.S. EPA Publication SW-846, Test Methods for Evaluating Solid Waste and American Society for Testing and Materials (ASTM) Standard Test Methods or other equivalent methods with prior written approval of the Executive Director.

- a. All groundwater analyses required by this permit shall be performed using a QA/QC program where all information, data, and resulting decisions are technically sound, statistically valid, and properly documented. All QA/QC program details shall be put in writing and assignments made to qualified personnel. At a minimum, the program shall conform to the QA/QC program details described in the current edition of U.S. EPA Publication SW-846, Test Methods for Evaluating Solid Waste and American Society for Testing and Materials (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 the approved Part B Permit Application Attachment VI, which is incorporated into this permit through Provision I.B. The permittee or the Executive Director shall propose modifications, as necessary, to the Sampling and Analysis Plan in order to achieve the Detection Monitoring Program objectives. Any and all revisions to the plan shall become conditions of this permit at the beginning of the next full quarter after approval by the Executive Director.
2. Sampling and Analysis Frequencies and Parameters
- a. Frequencies of sampling shall be monthly, quarterly, semiannually or yearly, depending on the sampling objective. These periods of time are defined below:
    - 1) "Month" shall be a calendar month;
    - 2) "Quarter" shall be based on divisions of the calendar year (i.e., January through March, April through June, July through September, October through December);
    - 3) "Semiannual" shall be based on divisions of the calendar year (i.e., January through June, July through December) and consist of two consecutive quarters;
    - 4) "Annual" or "Year" shall be four consecutive quarters, beginning with the first quarter. Years shall be designated consecutively, beginning with the "first year", "second year", etc.; and,
    - 5) "Calendar year" shall be based on divisions of the calendar (i.e. January through December).

- b. Sampling of wells shall commence during the first complete quarter after initial issuance of this permit, or during the first quarter of operation if the permit is issued for a new unit. Samples shall be collected during the first thirty (30) days of the specified sampling frequency.
- c. In the first and subsequent years of the Detection Monitoring Program, the wells of Table VI.B.3.b.-Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to Provision VI.D.2.d.
- d. The permittee shall, during April and October of each year, sample the detection monitoring system wells. A sample shall be obtained from each of the even numbered upgradient wells and downgradient wells during the October sampling event, and a sample shall be obtained from each of the odd numbered upgradient wells and downgradient wells during the April sampling event. The permittee shall analyze each sample to determine the concentration of each detection monitoring parameter listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters. The designated upgradient groundwater monitoring listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System will only be analyzed for metal monitoring parameters listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters.
- e. Field determination requirements for wells listed in Table VI.B.3.b.-Unit Groundwater Detection Monitoring System consist of the following measurements or observations for each well that will be sampled which shall be established during each sampling event:
  - 1) Water level measurements relative to Mean Sea Level measured to within 0.01 foot.
  - 2) Determination of pH, temperature, Specific Conductivity and Turbidity in nephelometric turbidity units, for each well.
  - 3) Descriptions of water sample appearance (clarity, color, etc.) shall be recorded.
  - 4) The total depth of each well, which is not equipped with a dedicated pump, shall be measured during each sampling event.

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

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

### 3. Statistical Procedures for Data Evaluation

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

### 4. Data Evaluation

- a. Statistical data evaluations shall be completed within sixty (60) days of the sampling date unless QA/QC procedures show that data is unacceptable and re-analysis or resampling must be performed. In such cases, the Executive Director will be notified as soon as it becomes apparent that the 60-day time limit to conduct data evaluation cannot be met.
- b. Statistical data evaluation shall determine whether there is evidence of an SSI for the volatile and semi-volatile organic monitoring Parameters listed in 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).

- c. In addition to the statistical evaluation procedures established in Provision VI.D.3., the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in Table VI.B.3.c. – Groundwater Detection Monitoring Parameters. This data evaluation shall consist of a review of graphical representations of each of the metal parameter concentrations in each well over time. This evaluation of the metals data shall be performed annually and included in the annual report required under Provision VI.G.
- E. Response Requirements for Increase in Groundwater Monitoring Parameters
1. If the permittee has determined an SSI for any of the Groundwater Monitoring Parameters identified in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters in accordance with 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, the permittee shall submit to the Executive Director a permit amendment or modification to modify the Detection Monitoring Program and a compliance plan application to initiate a Compliance Monitoring Program and/or a Corrective Action Program for the specified unit. The permit and compliance plan applications must be submitted based on the following schedule:
      - 1) If ground water downgradient of the specified unit does not exceed the requirements in 30 TAC Section 335.158 for the proposed groundwater protection standard (GWPS), then within ninety (90) days, the permittee shall submit a permit amendment and a compliance plan application to establish a Compliance Monitoring Program for the specified unit;

- 2) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an Alternate Concentration Limit (ACL) is not being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application to establish a Corrective Action Program for the specified unit.
  - 3) If ground water downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an ACL is being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application with an ACL demonstration to establish a Corrective Action Program for the specified unit.
2. If the permittee determines that there is an SSI above (or for pH, a statistically significant variation from) background values for the Groundwater Detection Monitoring Parameters specified in Table VI.B.3.c., the permittee may demonstrate a source other than the RCRA-regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation. In such cases, the permittee shall perform the following actions:
    - a. Notify the Executive Director in writing within seven (7) days that the permittee intends to make a demonstration.
    - b. Within ninety (90) days, submit a report to the Executive Director which demonstrates that a source other than a RCRA-regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation.
    - c. Submit to the Executive Director an application for a permit amendment or modification and a compliance plan application to make any appropriate changes to the Detection Monitoring Program at the facility. The applications shall be submitted in accordance with Provision VI.E.1.d.
    - d. Continue to monitor ground water in accordance with the Detection Monitoring Program at the facility.
- F. Revised Detection Monitoring Program

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

G. Annual Detection Monitoring Reporting Requirements

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

1. A statement whether an SSI has occurred over background values in any well during the previous calendar year period and the status of any increase events.
2. The results of all monitoring, testing, and analytical work obtained or prepared pursuant to the requirements of this permit, including a summary of background groundwater quality values, groundwater monitoring analyses, statistical calculations, graphical evaluations, and drawings.
3. The groundwater flow rate and direction in the uppermost aquifer. The rate and direction of ground water flow shall be established using, but not limited to, the data collected during the preceding calendar year's sampling events from the monitoring wells of the Detection Monitoring Program. The permittee shall also include in the report all documentation used to determine the groundwater flow rate and direction.
4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurements in each detection monitoring system well sampled during each monitoring event. All data or documentation used to establish the contour map should be included in the report.
5. Recommendation for any changes.
6. Any other items requested by the Executive Director.

H. Record Keeping Requirements

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

I. Compliance Scheduling Requirements

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

1. The permittee shall complete the installation of all wells for the landfill (Permit Unit No. 2) 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.

Permit No. 50358  
Class 2 Modification  
Permittee: Waste Control Specialists LLC

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Table VI.B.3.b. Unit Groundwater Detection Monitoring System (attached)

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

Attachment E Maps Indicating Point of Compliance Wells and Groundwater Monitoring Wells

Replace the existing Attachment E with the revised Attachment E.

This Class 2 modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: November 8, 2013

  
For the Commission



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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 February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 26, 2006, and June 20, 2006 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 4, 2006 (Class 1 Modification for administrative and informational changes), September 20, 2006 (Class 1 Modification for administrative and informational changes), September 24, 2007 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 29, 2008, revised June 5, 2008 (Class 2 Modification to authorize unloading of hazardous and non-hazardous wastes directly into transport trucks, using a railcar dumper, proposed to be installed in a building located within the permitted facility), May 20, 2009 (Class 1<sup>1</sup> Modification to authorize the replacement of the existing unenclosed Railcar Bulk Waste Unloading Area with functionally equivalent enclosed Railcar Pedestal Unloading Building), October 15, 2009 (Class 1<sup>1</sup> Modification to increase the financial assurance for closure so that the stormwater and waste can be placed in landfill Cells F and G prior to closure of Cells C and D), December 11, 2009 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 20, 2010 (Class 1 Modification for changes to the Construction Quality Assurance (CQA) Plan to be consistent with current landfill construction practices, standards, materials, and specifications), December 22, 2010 (Class 1 Modification to authorize a temporary replacement and realignment of a portion of the existing security fence surrounding the permitted East+West Landfill Unit), December 17, 2010 (Class 1<sup>1</sup> Modification to authorize transfer of ownership of the

property from Waste Control Specialists LLC to Andrews County), April 12, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 19, 2011 (Class 1 Modification to include replacement groundwater monitoring well MW-1BR and update emergency coordinator list in the Contingency Plan), May 24, 2011 (Class 1<sup>1</sup> Modification requesting authorization to add Analytical Method SW-846 6020/EPA Method 200.8 to the list of authorized methods for analysis of metals in groundwater samples), June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), and November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1<sup>1</sup> Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.      Incorporated Application Materials

Provision I.B. is revised as follows:

### **B.      Incorporated Application Materials**

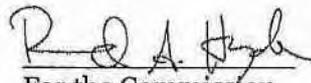
This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class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

Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and March 26, 2014 (Class 1<sup>+</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), 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<sup>+</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: April 16, 2014

  
For the Commission



# Texas Commission on Environmental Quality



## **Class 1<sup>1</sup> Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.      Incorporated Application Materials

Provision I.B. is revised as follows:

### **B.      Incorporated Application Materials**

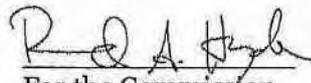
This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class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

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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<sup>+</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: April 16, 2014

  
For the Commission



# Texas Commission on Environmental Quality



## **Class 3 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), and August 12, 2013 and revised September 16, 2013, December 4, 2013, January 10, 2014 (Class 3 Modification to address changes from the reduction in the surface area, capacity, and number of cells from A through S to A through K of the permitted East+West Landfill), 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.

Table V.G.6.                    Landfill Liner System

Replace the existing Table V.G.6. with the revised Table V.G.6. to address reduction in number of cells from A through S to A through K (attached).

Table V.G.7.                    Landfill Leachate Collection System

Replace the existing Table V.G.7. with the revised Table V.G.7. to address reduction in number of cells from A through S to A through K (attached).

Table VII.E.2.                Permitted Unit Post-Closure Cost Summary

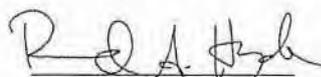
Replace the existing Table VII.E.2. with the revised Table VII.E.2. (attached).

Attachment B                Authorized Facility Units

Replace Pages 10 and 11 of the existing Attachment B.

This Class 3 modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: May 20, 2014

  
For the Commission



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 1, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1<sup>1</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), and June 10, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), 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.

Table V.B. Container Storage Area

Replace the existing Table V.B. with the revised Table V.B. (attached)

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

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1<sup>1</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), and July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), 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.

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

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), and October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

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

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), 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. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), and July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3.- emergency equipment in the Contingency Plan), 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.

Table:

Table III.E.3.                      Emergency Equipment

Reissue previously approved Table III.E.3. - Emergency Equipment as part of the modification.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## Class 1<sup>1</sup> Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews, Andrews County, Texas

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

B.        Incorporated Application Materials

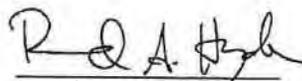
This permit is based on, and the permittee shall follow the Part A and Part B Industrial and Hazardous Waste Application submittals dated February 9, 2004, July 16, 2004, September 1, 2004, November 15, 2004, November 18, 2004, November 29, 2004, January 20, 2005, January 25, 2005, January 27, 2006 (Class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

June 2, 2011 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), September 28, 2011 and revised February 24, 2012 (Class 3 Modification to install and operate Waste Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1<sup>st</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3. - emergency equipment in the Contingency Plan), and September 3, 2015, and revised September 11, 2015 (Class 1<sup>st</sup> Modification to add metal enclosure over Bin Storage Area (BSA)-2 and BSA-3 of permitted BSU-1), 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<sup>st</sup> Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: October 26, 2015

  
For the Commission



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC – Andrews**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Compactor in Stabilization Building), October 28, 2011, April 4, 2012, April 18, 2012, July 24, 2012, and November 1, 2012 (Class 3 Modification to install and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3. - emergency equipment in the Contingency Plan), September 3, 2015, and revised September 11, 2015 (Class 1 Modification to add metal enclosure over Bin Storage Area (BSA)-2 and BSA-3 of permitted BSU-1), and January 27, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan) 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. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## **Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC - Andrews**

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision LB.            Incorporated Application Materials

Provision LB. is revised as follows:

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

and operate a Surface Impoundment at the facility), April 27, 2012 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), November 1, 2012 (Class 1 Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1 Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3. - emergency equipment in the Contingency Plan), September 3, 2015, and revised September 11, 2015 (Class 1 Modification to add metal enclosure over Bin Storage Area (BSA)-2 and BSA-3 of permitted BSU-1), January 27, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), May 9, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and May 17, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.



# Texas Commission on Environmental Quality



## Class 1 Permit Modification to Hazardous Waste Permit No. 50358 Waste Control Specialists LLC – Andrews

Permit No. 50358 is hereby modified as follows:

Continuation Sheet 5 of 62

Provision I.B.            Incorporated Application Materials

Provision I.B. is revised as follows:

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

Modification to update facility management and the emergency coordinator list in the Contingency Plan), February 6, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), May 6, 2013 (Class 1 Modification to revise permit Provisions IV.B.3.b and IV.B.7 to replace Texas Department of State Health Services (TDSHS) with TCEQ as the authorized agency to approve radioactive waste exemption requests), May 31, 2013 (Class 1 Modification to correct typographical errors and to update the emergency coordinator list in the Contingency Plan), June 24, 2013 and revised August 6, 2013, which was resubmitted on August 13, 2013 (Class 2 Modification to replace existing contingency/emergency response plan with a consolidated emergency response plan, and to authorize plugging and abandonment of Monitor Well MW-1A), November 20, 2013 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan), August 12, 2013 and revised, September 16, 2013, December 4, 2013 and January 10, 2014 (Class 3 modification to reduce the surface area of the landfill), March 26, 2014 (Class 1<sup>1</sup> Modification to reflect minor changes in design with the addition of doors to the Bin Storage Unit (BSU-1.)), June 10, 2014, and revised June 26, 2014 (Class 1 Modification to update the emergency coordinator list in the Contingency Plan, update Table V.B-Container Storage Area, and Table VII.E.1-Permitted Unit Closure Cost Summary), July 30, 2014 (Class 1 Modification to correct typographical error in Provision I.B., to update Table VII.E.1-Permitted Unit Closure Cost Summary and emergency coordinator list in the Contingency Plan), October 9, 2014 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), June 1, 2015, and revised June 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and update to emergency equipment list in the Contingency Plan; temporary replacement and relocation of facility's fence; and revisions to Construction Quality Assurance and Quality Control Plan), July 22, 2015 (Class 1 Modification to change the Alternate Emergency Coordinator and to reissue previously approved Table III.E.3. - emergency equipment in the Contingency Plan), September 3, 2015, and revised September 11, 2015 (Class 1<sup>1</sup> Modification to add metal enclosure over Bin Storage Area (BSA)-2 and BSA-3 of permitted BSU-1), January 27, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), May 9, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), May 17, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan), and December 8, 2016 (Class 1 Modification to update the alternate emergency coordinator information in the Contingency Plan) and the Application Elements listed in "Attachment C", which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality.

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

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.