

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

EXECUTIVE SUMMARY

March 21, 2007

CHIEF CLERK'S OFFICE

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TEXAS  
COMMISSION  
ON ENVIRONMENTAL  
QUALITY

DESCRIPTION OF APPLICATION

Applicant: BFI Waste Systems of North America, Inc.  
Giles Holdings, L.P.  
MSW Permit Amendment Application No. 1447A

Type: Type I Municipal Solid Waste Landfill Facility

Request: To issue a municipal solid waste permit, No. 1447A, for vertical expansion of a municipal solid waste Type I landfill facility, and to operate this facility in accordance with the application.

Authority: Texas Commission on Environmental Quality rules, 30 TAC Chapter 330.

STAFF RECOMMENDATION

Issue permit as requested.

TECHNICAL INFORMATION

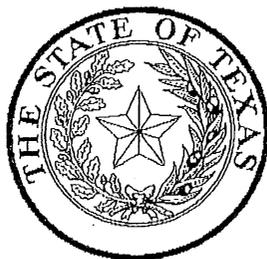
General: The facility is located in Travis County, Texas, at 9912 Giles Road, approximately three quarters of a mile north of the intersection of Giles Road and U.S. Highway 290. The site is within the city limits and extra-territorial jurisdiction of the City of Austin. Structures and other developed features within one mile of the boundary of the site include residences, a school, a day care facility, a historic site, a golf course, other recreational facilities, ponds, industrial and business buildings, and other landfills. The land use immediately adjacent to the site consists of a Type I landfill, an industrial facility, and open land (including agriculture, rights of way, and vacant land). Land use within a 1-mile radius of the site open land (65%), industrial (20%), residential (9%), commercial (2%), recreational (2%), water (1%), and institutional (1%). The waste acceptance rate into the landfill will be an anticipated initial rate of approximately 1,440,000 tons-per-year (approximately 3,950 tons-per-day based on 365 days-per-year of operation) and increasing over time to a maximum acceptance rate of approximately 1,825,000 tons-per-year (approximately 5,000 tons-per-day based on 365 days-per-year of operation). The facility would accept municipal solid waste, regulated asbestos-containing material from municipal sources, construction and demolition wastes, Class 1 industrial nonhazardous solid waste that is considered Class 1 only because of asbestos content, Class 2 industrial nonhazardous solid waste, Class 3 industrial nonhazardous solid waste, and certain special wastes. The permit application meets the requirements of the Commission's rules and provides the proper safeguards to protect the public health and safety, and the environment.

Conditions: Conditions of the permit are set forth in the final permit. Detailed information about the facility and its operation are contained in the Technical Summary.

COMPLIANCE HISTORY

See attached.

CONTACT Arten Avakian (512) 239-4419  
MSW Permits Section



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PERMIT FOR MUNICIPAL  
SOLID WASTE MANAGEMENT FACILITY  
Issued under provisions of Texas  
Health & Safety Code  
Chapter 361

MSW Permit No.: 1447A

Permittee: BFI Waste Systems of North America, Inc.  
4542 SE Loop 410  
San Antonio, Texas 78222-3925

Property Owners: BFI Waste Systems of North America, Inc.  
4542 SE Loop 410  
San Antonio, Texas 78222-3925

Giles Holdings, L.P.  
1223 Judson Road  
Longview, Texas 75601-3922

Facility Name: BFI Sunset Farms Landfill

Classification of Site: Type I Municipal Solid Waste Management Facility

The permittee is authorized to store, process, and dispose of wastes in accordance with the limitations, requirements, and other conditions set forth herein. This amended permit is granted subject to the rules and orders of the Commission and laws of the State of Texas and it replaces any previously issued permit. Nothing in this permit exempts the permittee from compliance with other applicable rules and regulations of the Texas Commission on Environmental Quality. This permit will be valid until canceled, amended, or revoked by the Commission.

APPROVED, ISSUED AND EFFECTIVE in accordance with Title 30 Texas Administrative Code Chapter 330, as in effect before March 27, 2006.

ISSUED DATE:

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For the Commission

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BFI Sunset Farms Landfill  
MSW Permit No. 1447A  
Travis County

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## **PART NO. 1**

### **I. Location and Size of Facility**

- A. The BFI Waste Systems of North America Sunset Farms Landfill is located approximately three quarters of a mile north of the intersection of Giles Road and U.S. Highway 290, in Travis County, Texas. The site is within the city limits and extra-territorial jurisdiction of the City of Austin. The address of the landfill entrance is 9912 Giles Road.
- B. The legal description is contained in Part I of the application, in Attachment A of this permit.
- C. Coordinates and Elevation of Site Permanent Benchmark:
- |            |  |
|------------|--|
| Latitude:  | N 30° 20' 21"                          |
| Longitude: | W 97° 37' 01"                          |
| Elevation: | 613.40 feet above mean sea level (msl) |
- D. The total area within the permit boundary is approximately 349.4 acres, of which approximately 251.5 acres will be used for waste disposal. The final maximum elevation of the waste fill and final cover material will be 795 feet msl.

### **II. Incorporated Application Materials**

This permit is based on and the permittee shall follow Parts I through IV of the permit application dated August 1, 2005, and the revisions dated May 8, 2006, August 22, 2006, November 10, 2006, January 18, 2007, February 12, 2007, and March 14, 2007, which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality (TCEQ). These materials are incorporated into this permit by reference in Attachment A as if fully set out herein. Any and all revisions to these application materials shall become conditions of this permit upon the date of approval by the Commission.

Part V of the permit application shall be submitted upon completion of construction of the facility. The permittee shall maintain Parts I through V of the application as described in Title 30 Texas Administrative Code (30 TAC), Chapter 330, Section (§) 330.51(a) at the facility and make them available for inspection by TCEQ personnel. [Chapter 330 rule citations in this document refer to the rules in effect at the time of the application, before the March 27, 2006, revisions.]

### III. Facilities and Operations Authorized

#### A. Days and Hours of Operation

The facility is authorized to operate and accept waste 24 hours per day, seven days per week.

#### B. Wastes Authorized at This Facility

The permittee is authorized to dispose of municipal solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including household garbage, putrescible wastes, rubbish, ashes, brush, street cleanings, dead animals, construction-demolition waste, and yard waste. The facility may also accept, regulated asbestos-containing material from municipal sources, Class 1 industrial nonhazardous solid waste that is considered Class 1 only because of asbestos content (30 TAC §330.136(b) and §330.137(b)), Class 2 industrial nonhazardous solid waste, Class 3 industrial nonhazardous solid waste, and certain special wastes identified in Part IV in Attachment A of this permit. The acceptance of special wastes is contingent upon such waste being handled in accordance with 30 TAC §330.136, and in accordance with the listed and described procedures in Part IV in Attachment A of this permit, subject to the limitations and special provisions provided herein.

#### C. Wastes Prohibited at This Facility

The permittee shall comply with the waste disposal restrictions set forth in 30 TAC §330.5(e). Hazardous wastes (other than municipal hazardous waste from conditionally exempt small quantity generators), radioactive wastes, polychlorinated biphenyl (PCB) wastes, nonhazardous Class 1 industrial wastes (other than that considered Class 1 only because of asbestos content), or any other wastes not identified in Section III.B. of this permit shall not be accepted at this facility.

#### D. Waste Acceptance Rate

Authorized solid waste may be accepted for disposal at this site at the initial rate of approximately 3,150 tons-per-day and increasing over time to a maximum acceptance rate of approximately 5,000 tons-per-day. The actual yearly waste acceptance rate is a rolling quantity based on the sum of the previous four quarters of waste acceptance.

Present and future waste acceptance rates are detailed in Part III, Appendix IIIA in Attachment A of this permit.

E. Volume Available for Waste Disposal

The total waste disposal capacity of the landfill is 38,333,735 cubic yards, based on the information contained in Appendix III-A of Part III, in Attachment A of this permit.

F. Facilities Authorized

The permittee is authorized to operate a Type I municipal solid waste landfill that utilizes a combination of area excavation fill and aerial fill of the municipal solid waste landfill, subject to the limitations contained herein. All waste disposal activities subject to permitting are to be confined to the following facilities, which shall include disposal units, structures, appurtenances, or improvements: access roads, dikes, berms and temporary drainage channels, permanent drainage structures, detention ponds, wheel-wash facility, liquid waste stabilization basin, fuel storage tanks, citizen drop-off area, brush storage and grinding area, landfill gas management system, contaminated water management system, final cover, groundwater monitoring system, landfill liner system, and other improvements.

G. Changes, Additions, or Expansions

Any proposed facility changes must be authorized in accordance with the Texas Commission on Environmental Quality (TCEQ) permit amendment or modification rules, 30 TAC Chapters 305 and 330.

**IV. Facility Design, Construction, and Operation**

A. Facility design, construction, and operation and/or maintenance must comply with the provisions of this permit; Commission Rules, including 30 TAC §§330.50 through 330.65, 330.111 through 330.139, 330.150 through 330.159, 330.200 through 330.206, 330.230 through 330.242, 330.250 through 330.256, 330.280 through 330.284, and 330.300 through 330.305; Chapter 37, Subchapter R; special provisions contained in this permit; and Parts I through IV of the application in Attachment A of this permit, and shall be managed in a manner to protect human health and the environment.

B. The entire waste management facility shall be designed, constructed, operated, and maintained to prevent the release and migration of any waste, contaminant, or pollutant beyond the point of compliance as defined in 30 TAC §330.2 and to prevent inundation or discharge from the areas surrounding the facility components. Each

receiving, storage, processing, and disposal area shall have a containment system that will collect spills and incidental precipitation in such a manner as to:

1. Preclude the release of any contaminated runoff, spills, or precipitation;
  2. Prevent washout of any waste by a 100-year storm; and
  3. Prevent run-on into the disposal areas from off-site areas.
- C. The site shall be designed and operated so as not to cause a violation of:
1. The requirements of §26.121 of the Texas Water Code;
  2. Any requirements of the Federal Clean Water Act, including, but not limited to, the National Pollutant Discharge Elimination System (NPDES) requirements of §402, as amended, and/or the Texas Pollutant Discharge Elimination System (TPDES), as amended;
  3. The requirements under §404 of the Federal Clean Water Act, as amended; and
  4. Any requirement of an area wide or statewide water quality management plan that has been approved under §208 or §319 of the Federal Clean Water Act, as amended.
- D. Contaminated water shall be handled, stored, treated, disposed of, and managed in accordance with 30 TAC §330.55(b)(6), 30 TAC §330.56(o), and Part III, Attachment 15 in Attachment A of this permit.
- E. Best management practices for temporary erosion and sedimentation control shall remain in place until sufficient vegetative cover has been established to control and mitigate erosion on areas having final cover. Vegetative cover will be monitored and maintained throughout the post-closure care period in accordance with Part III, Attachment 13 in Attachment A of this permit.
- F. Storm water runoff from the active portion of the landfill shall be managed in accordance with 30 TAC §330.55(b)(3) and §330.133(b), and as described in Part III in Attachment A of this permit.
- G. All facility employees and other persons involved in facility operations shall be qualified, trained, educated, and experienced to perform their duties so as to achieve

compliance with this permit. The permittee shall comply with 30 TAC §330.52(b)(9) and as described in Part I in Attachment A of this permit. The permittee shall further ensure that personnel are familiar with safety procedures, contingency plans, the requirements of the Commission's rules and this permit, commensurate with their levels and positions of responsibility, in accordance with Part III and Part IV in Attachment A of this permit. All facility employees and other persons involved in facility operations shall obtain the appropriate level of operator certification as required by recent changes in the statute and applicable regulations.

- H. The facility shall be properly supervised to assure that bird populations will not increase and that appropriate control procedures will be followed. Any increase in bird activity that might be hazardous to safe aircraft operations will require prompt mitigation actions.

#### V. Financial Assurance

- A. Authorization to operate the facility is contingent upon compliance with provisions contained within the permit and maintenance of financial assurance in accordance with 30 TAC Chapter 330, Subchapter K and 30 TAC Chapter 37, Subchapter R.
- B. Within 60 days after the date of issuance of this permit, the permittee shall provide financial assurance instrument(s) for demonstration of closure of the landfill in accordance with 30 TAC §§330.253(d)(6) and 330.281. The closure cost estimate of \$39,099,849 (2004 dollars) is based on estimates as described in Part III, Attachments 8 and 12, in Attachment A of this permit. The financial assurance instrument shall be in an amount that includes the inflation factors for each calendar year following 2004 until the year the permit is issued.
- C. Within 60 days after the date of issuance of this permit, the permittee shall provide financial assurance instrument(s) for demonstration of post-closure care of the landfill in an amount for the entire landfill facility. The post-closure care cost estimate of \$7,984,570 (2005 dollars) is based on estimates as described in Part III, Attachments 8 and 13, in Attachment A of this permit. The financial assurance instrument shall be in an amount that includes the inflation factors for each calendar year following 2005 until the year the permit is issued.
- D. The owner and/or operator shall annually adjust closure and/or post-closure care cost estimates for inflation within 60 days prior to the anniversary date of the establishment of the financial assurance instrument pursuant to 30 TAC §330.281 and §330.283, as applicable.

- E. If the facility closure and/or post-closure care plan is modified in accordance with 30 TAC §305.70, the permittee shall provide new cost estimates in current dollars in accordance with 30 TAC §§330.253(d)(6), 330.254(b)(3)(D), 330.281, and 330.283, as applicable. The amount of the financial assurance mechanism shall be adjusted within 45 days after the modification is approved. Adjustments to the cost estimates and/or the financial assurance instrument to comply with any financial assurance regulation that is adopted by the TCEQ subsequent to the issuance of this permit, shall be initiated as a modification within 30 days after the effective date of the new regulation.

## **VI. Facility Closure**

Closure of the facility shall commence:

- A. Upon completion of the disposal operations and the site is completely filled or rendered unusable in accordance with Part III, Attachment 7 in Attachment A of this permit;
- B. Upon direction by the Executive Director of the TCEQ for failure to comply with the terms and conditions of this permit or violation of State or Federal regulations. The Executive Director is authorized to issue emergency orders to the permittee in accordance with §5.501 and §5.512 of the Water Code regarding this matter after considering whether an emergency requiring immediate action to protect the public health and safety exists;
- C. Upon abandonment of the site;
- D. For failure to secure and maintain an adequate bond, or other financial assurance as required; or
- E. Upon the permittee's notification to the TCEQ that the landfill will cease to accept waste and no longer operate at any time prior to the site being completely filled to capacity.

## **VII. Site Completion and Closure**

The landfill shall be completed and closed in accordance with 30 TAC §330.250 and the applicable portions of 30 TAC §§330.253 through 330.256. Upon closure, the permittee shall submit to the Executive Director documentation of closure as set out in 30 TAC §330.253. Post-closure care and maintenance shall be conducted in accordance with Part III,

Attachment 13 found in Attachment A of this permit, for a period of 30 years or as otherwise determined by the Executive Director pursuant to 30 TAC §330.254(b).

### VIII. Standard Permit Conditions

- A. Parts I through IV, as described in 30 TAC §330.51(a), which comprise the Permit Application for MSW Permit No. 1447A are hereby made a part of this permit as Attachment A. The permittee shall maintain Parts I through IV and Part V, as described in 30 TAC §330.51(a), at the facility and make them available for inspection by TCEQ personnel. The contents of Part III of Attachment A of this permit shall be known as the "Approved Site Development Plan," in accordance with 30 TAC §330.54 and §330.55. The contents of Part IV of Attachment A of this permit shall be known as the "Approved Site Operating Plan," in accordance with 30 TAC §330.57 and §330.114.
- B. Attachment B, consisting of minor amendments, modifications, and corrections to this permit, is hereby made a part of this permit.
- C. The permittee shall comply with all conditions of this permit. Failure to comply with any permit condition may constitute a violation of the permit, the rules of the Commission, and the Texas Solid Waste Disposal Act, and is grounds for an enforcement action, revocation, or suspension.
- D. A pre-construction conference shall be held pursuant to 30 TAC §330.64(c) before beginning any construction within the permit boundary to ensure that all aspects of this permit, construction activities, and inspections are met. Additional pre-construction conferences may be held prior to the opening of the facility.
- E. A pre-opening inspection shall be held pursuant to 30 TAC §330.64(d).
- F. The permittee shall monitor sediment accumulations in ditches and culverts on a quarterly basis, and remove sedimentation to re-establish the design flow grades on an annual basis or more frequently if necessary to maintain the design flow.
- G. The tracking of mud off-site onto any public right-of-way shall be minimized.
- H. In accordance with 30 TAC §330.7(a), the permittee shall record in the deed records of Travis County, a metes and bounds description of all portions within the permit boundary on which disposal of solid waste has and/or will take place. A certified copy of the recorded document(s) shall be provided to the Executive Director in accordance with 30 TAC §330.7(b).

- I. Daily cover of the waste fill areas shall be performed with clean soil that has not been in contact with waste. Intermediate cover, run-on, and run-off controls shall not be constructed from soil that has been scraped up from prior daily cover or which contains waste.
- J. During construction and operation of the facility, measures shall be taken to control runoff, erosion, and sedimentation from disturbed areas. Erosion and sedimentation control measures shall be inspected and maintained at least monthly and after each storm event that meets or exceeds the design storm event. Erosion and sedimentation controls shall remain functional until disturbed areas are stabilized with established permanent revegetation. The permittee shall maintain the on-site access road and speed bumps/mud control devices in such a manner as to minimize the buildup of mud on the access road and to maintain a safe road surface.
- K. In complying with the requirements of 30 TAC §330.123, the permittee shall consult with the local District Office of the Texas Department of Transportation or other authority responsible for road maintenance, as applicable, to determine standards and frequencies for litter and mud cleanup on state, county, or city maintained roads serving the site. Documentation of this consultation shall be submitted within 30 days after the permit has been issued.
- L. The permittee shall retain the right of entry onto the site until the end of the post-closure care period as required by 30 TAC §330.62(b).
- M. Inspection and entry onto the site by authorized personnel shall be allowed during the site operating life and until the end of the post-closure care period as required by §361.032 of the Texas Health and Safety Code.
- N. The provisions of this permit are severable. If any permit provision or the application of any permit provision to any circumstance is held invalid, the remainder of this permit shall not be affected.
- O. Regardless of the specific design contained in Attachments A and B of this permit, the permittee shall be required to meet all performance standards required by the permit, the regulations, and as required by local, state, and federal laws or ordinances.
- P. If differences exist between permit provisions, application materials (incorporated as Parts I through IV of Attachment A of this permit) and the rules under 30 TAC Chapter 330, then the permit provisions and the rules shall hold precedence over the application materials.

- Q. The permittee shall comply with the requirements of the air permit exemption in 30 TAC §106.534, if applicable, and the applicable requirements of 30 TAC Chapters 106 and 116.
- R. All discharge of storm water will be in accordance with the U.S. Environmental Protection Agency NPDES requirements and/or the State of Texas TPDES requirements, as applicable.

**IX. Incorporated Regulatory Requirements**

- A. To the extent applicable, the requirements of 30 TAC Chapters 37, 281, 305, and 330 are adopted by reference and are hereby made provisions and conditions of this permit.
- B. The permittee shall comply with all applicable federal, state, and local regulations and shall obtain any and all other required permits prior to the beginning of any on-site improvements or construction approved by this permit.

**X. Special Provisions**

- A. The permittee shall comply with the conditions specified in a letter from the Capital Area Council of Governments (CAPCOG) to the TCEQ, dated August 23, 2006, and agreed to by the applicant in a letter to CAPCOG dated January 18, 2007, as described in Section I.B (Supplementary Technical Report) of Part I of the application and documented in Section II.K (Coordination Letters) of Part II of the application, in Attachment A of this permit.
- B. All waste receipt shall cease on or before November 1, 2015. After the last receipt of wastes, the permittee shall complete installation of the permitted final cover system in accordance with 30 TAC §330.253.
- C. Leachate and gas condensate shall not be recirculated.
- D. The permittee shall repair eroded cover within 5 days of detection unless the commission's regional office approves otherwise.

**PART NO. 2**

**Attachment A**

Parts I through IV of the permit application.

BFI Sunset Farms Landfill  
MSW Permit No. 1447A  
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**PART NO. 3**

**Attachment B**

Minor Amendments, Corrections, and Modifications that may be issued for MSW Permit No. 1447A

The minor amendment, modification, or correction document prepared and executed with an approval date shall be attached to this attachment. There is no limit on the number of these documents that may be included in Attachment B of this permit.

**TECHNICAL SUMMARY**  
of the  
**BFI Waste Systems of North America**  
**Sunset Farms Landfill**  
**MSW Permit Amendment**  
**Application No. 1447A**

**Type I**  
**Municipal Solid Waste Facility**  
**Travis County, Texas**

**Applicant:**  
**BFI Waste Systems of North America, Inc.**

Prepared March 2007

Prepared and Issued by the  
Texas Commission on Environmental Quality (TCEQ)  
Office of Permitting, Remediation and Registration  
Waste Permits Division  
Municipal Solid Waste (MSW) Permits Section

This summary was prepared in accordance with 30 Texas Administrative Code Section 281.21(c). The information contained in this summary is based upon the permit amendment application. Not all of the information contained in this summary has been independently verified.

construction-demolition waste, and yard waste. The facility may also accept, regulated asbestos-containing material from municipal sources, Class 1 industrial nonhazardous solid waste that is considered Class 1 only because of asbestos content (30 TAC §330.136(b) and §330.137(b)), Class 2 industrial nonhazardous solid waste, Class 3 industrial nonhazardous solid waste, certain special wastes identified in 30 TAC §330.136(b), and other waste as approved by the Executive Director of the TCEQ. The landfill will not accept hazardous wastes (other than municipal hazardous waste from conditionally exempt small quantity generators), radioactive wastes, polychlorinated biphenyl (PCB) wastes, nonhazardous Class 1 industrial wastes (other than that considered Class 1 only because of asbestos content), or any other wastes prohibited by 30 TAC §330.5.

1.3. Waste Acceptance Rate

Authorized wastes will be accepted at an initial rate of approximately 140,000 cubic yards per month, which results in an estimated life of 10 years as of January 2005, according to data in the application.

2. Location and Size

2.1. Location

The facility is located at 9912 Giles Road, approximately three quarters of a mile north of the intersection of Giles Road and U.S. Highway 290 in Travis County, Texas. Refer to Attachment 1 (General Location Map) to this Technical Summary.

2.2. Elevation and Coordinates of Permanent Benchmark

Latitude: N 30° 20' 21"  
Longitude: W 97° 37' 01"  
Elevation: 613.40 feet above mean sea level (msl)

2.3. Size

The total area within the permit boundary is approximately 349.4 acres, of which approximately 251.5 acres will be used for waste disposal. The land not used for waste disposal will be landscaped and used for buffer zones, perimeter access roads, drainage facilities, and other uses excluding waste processing and disposal. The final maximum elevation of the waste fill and final cover material will be 795 feet msl. This amendment increases the capacity of the facility by approximately 10,600,000 cubic yards, from the currently permitted capacity of 27,703,735 cubic yards to 38,303,735 cubic yards.

- 3.2. The facility shall be built, operated, and maintained in accordance with the conditions of the permit, the permit amendment application Parts I through IV, and Commission rules. The facility shall be managed in a manner to protect human health and the environment.

#### **4. Land Use**

- 4.1. The site is located at 9912 Giles Road, approximately three quarters of a mile north of the intersection of Giles Road and U.S. Highway 290 in Austin, Travis County, Texas.
- 4.2. The surrounding land use within one mile of the facility includes industrial, residential, commercial, recreational, and institutional uses (total approximately 35 percent at the time the application was prepared), as well as undeveloped open land (approximately 65 percent).
- 4.3. Structures and other developed features within one mile of the boundary of the site include residences, a school, a day care facility, a historic site, a golf course, other recreational facilities, ponds, industrial and business buildings, and other landfills.

#### **5. Transportation and Access**

- 5.1. The primary access routes to the site are U.S. Highway 290, Johnny Morris Road, and Giles Road; Blue Goose Road and Cameron Road will be secondary access routes. Public access to the facility will be through the entrance on Giles Road.
- 5.2. At the time the application was prepared, the facility generated approximately 1,205 vehicle trips per day (inbound and outbound), which is expected to increase to 1,344 vehicle trips per day in year 2015. A traffic analysis included in the application concluded that primary access roadways within one mile of the site would operate at acceptable levels of service.
- 5.3. The nearest public use airport is the Austin-Bergstrom International Airport located approximately 8.5 miles south-southwest of the facility.

#### **6. Surface Water Protection**

##### **6.1. Floodplain**

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) show that most of the site is outside of any 100-year floodplain. A small part of the northeast portion of the site is within the 100-year floodplain of a tributary to Lake Walter E. Long; no portion of the waste fill area will be located within that 100-year floodplain.

##### **6.2. Storm water**

Drainage patterns and runoff volumes will not be significantly altered. Landfill contours and the storm water detention system are designed to limit peak flows to not exceed existing conditions. Runoff from landfill cover will be diverted by berms and channeled in riprap-

management and operating personnel for developing and operating the facility, and for maintaining compliance with design requirements and rules. The SDP and SOP were prepared in accordance with rules in 30 TAC Chapter 330, that were in effect at the time the application was declared administratively complete, and will become part of the facility permit if the proposed landfill major amendment is approved by the TCEQ.

**10. Protection of Endangered Species**

A threatened and endangered species habitat review was performed by Horizon Environmental Services, Inc. The review did not identify suitable habitat on the site for any threatened or endangered species. A field survey identified minimal habitat for the Texas horned lizard, but no individuals or likely food sources.

**11. Protection of Wetlands**

Horizon Environmental Services, Inc. performed a field investigation and determined there are three U.S. Army Corps of Engineers jurisdictional areas: (1) a pond in the northeast corner of the site; (2) an unnamed tributary to Lake Walter E. Long, exiting the northeast corner of the site; and (3) a wetland area in the northeast part of the site. The application states that the wetland area will not be disturbed. A wetlands certification is provided Part II, Section J of the application.

**12. Financial Assurance**

Authorization to operate this facility is contingent upon the maintenance of financial assurance in accordance with 30 TAC Chapter 37 (Financial Assurance), Chapter 330, and the provisions contained in the permit.

**13. Attachments**

Attachments from the permit amendment application which provide illustrations of the site location, nearby land use, and site development include the following:

<u>Attachment</u>	<u>Description</u>	<u>Location in the Application/Drawing Number</u>
1	General Location Map	Part I, Figure I.D-1
2	General Site Map	Part I, Figure I.C-1
3	Land Use Map	Part II, Figure II.C
4	Site Layout Plan	Part III, Attachment 1 (2 sheets)
5	Overall Excavation Plan	Part III, Attachment 1.1
6	Sequence	Part III, Attachment 1.2 (3 sheets)
7	Fill Cross Sections	Part III, Attachment 2 (4 sheets)
8	Final Contour Map	Part III, Attachment 7

to support or dispute information contained in the application. When all of this is complete, the ALJ will issue a Proposal for Decision (PFD). This PFD is placed on an agenda meeting of the TCEQ Commissioners for consideration of issuance or denial of a permit.

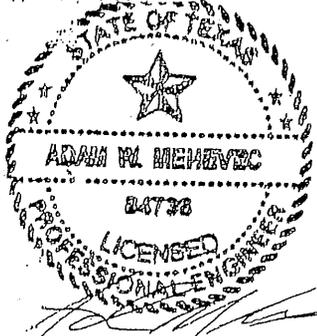
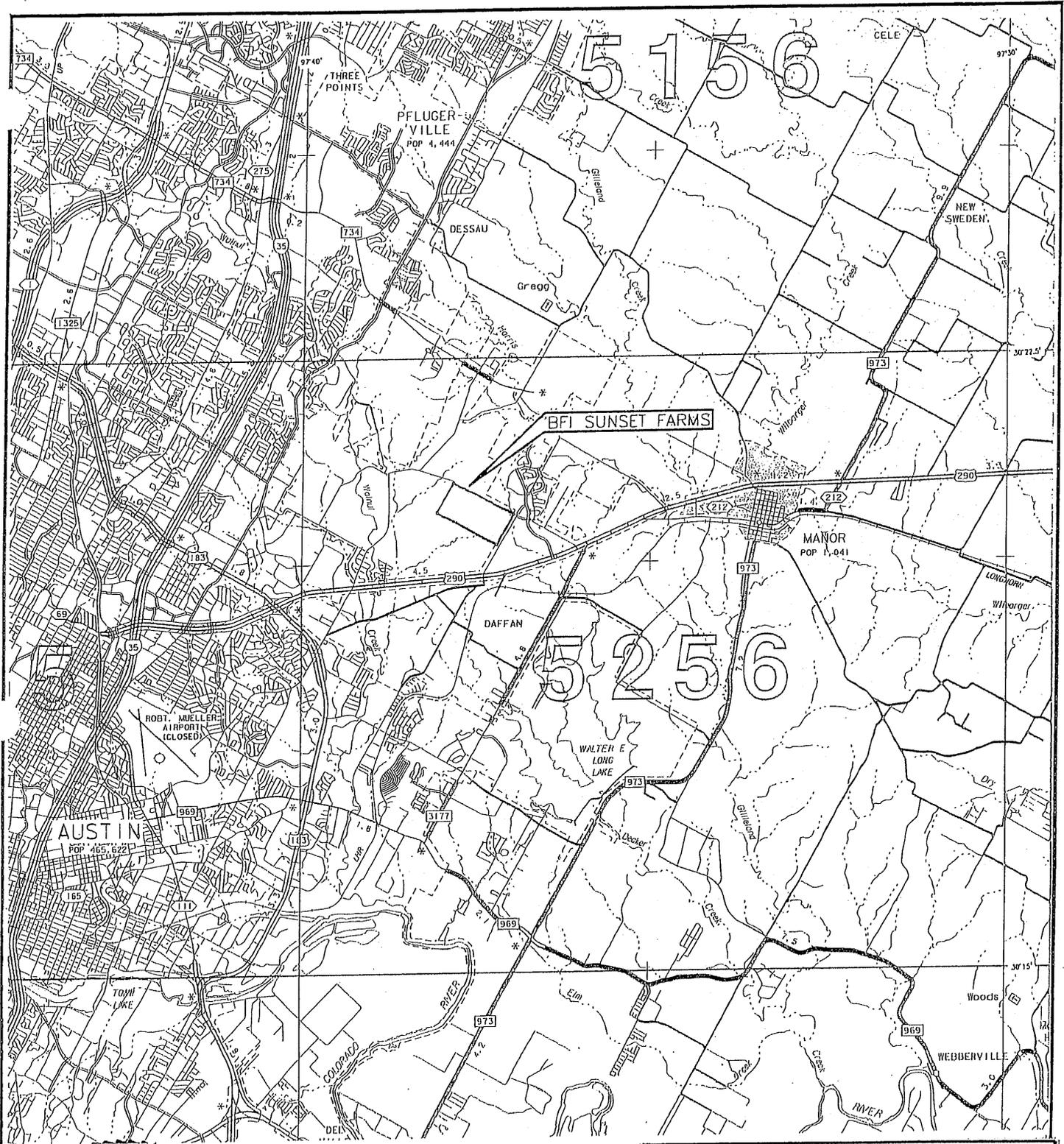
- 15.7. After the commission has approved or denied an application, a motion for rehearing may be made by a party that does not agree with the decision. Any motion for rehearing must be filed no later than 20 days after the party or the party's attorney of record is notified of the decision. The matter could be set on another agenda for consideration by the Commission, or allowed to expire by operation of law.
- 15.8. Applications for which no one requests a contested case hearing are considered uncontested matters after the 30-day comment period. The application is placed on the Executive Director's signature docket and a permit is issued. Any motion to overturn the Executive Director's decision must be filed no later than 23 days after the agency mails notice of the signed permit.

For information regarding public participation in the permitting process, contact the TCEQ Office of the Public Interest Counsel:

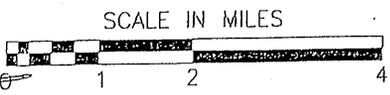
Office of Public Interest Counsel, MC 103  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087  
(512) 239-6363

For information regarding public hearing procedures for municipal solid waste permits, contact the State Office of Administrative Hearings:

State Office of Administrative Hearings  
Natural Resource Division  
300 W. 15th Street, Room 504  
Austin, TX 78701  
(512) 475-3445

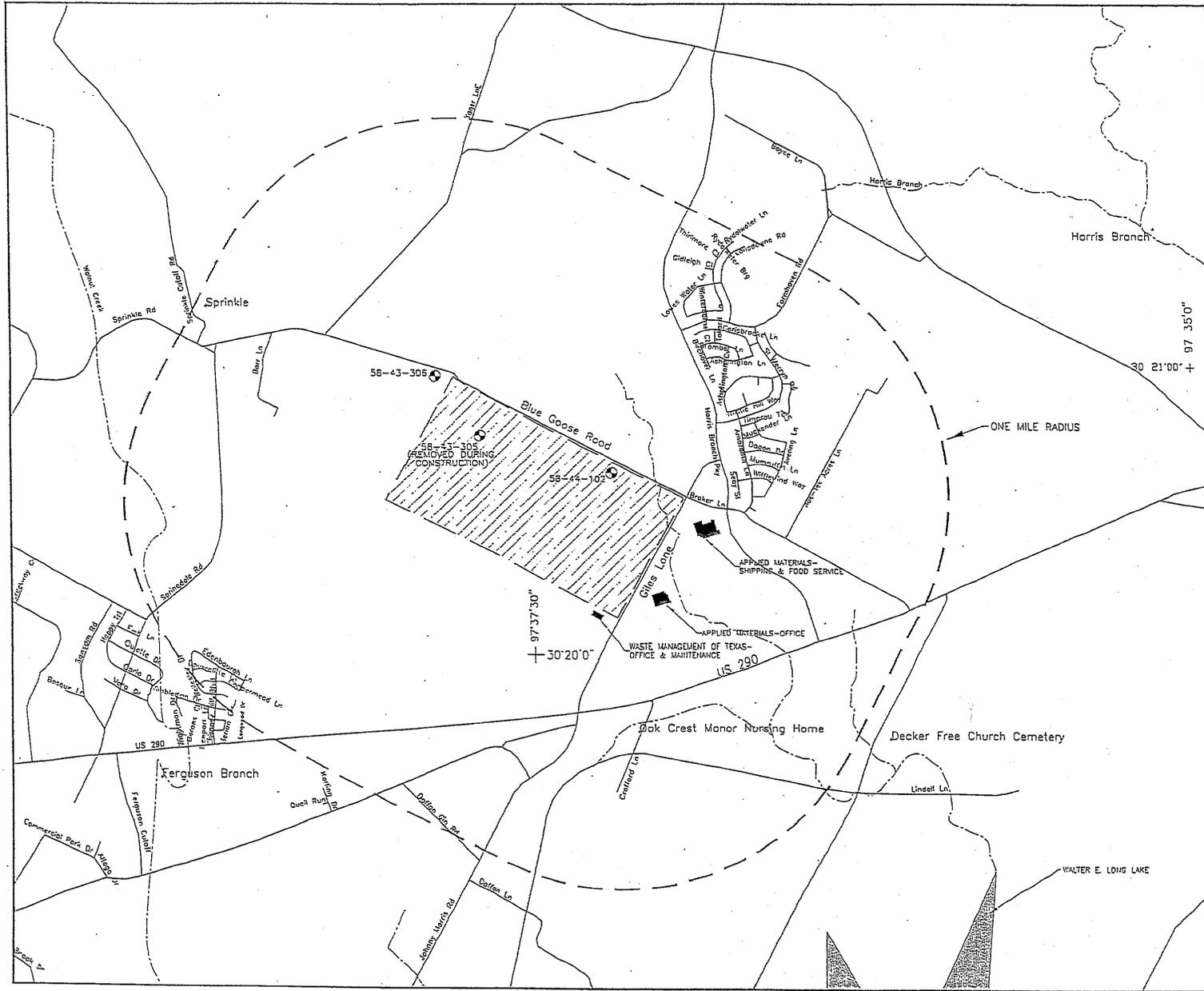


BASEMAP SOURCE:  
 GENERAL HIGHWAY MAP FOR  
 TRAVIS COUNTY, TEXAS  
 TEXAS DEPARTMENT OF TRANSPORTATION  
 REVISED MARCH 1, 2001



 ASSOCIATED CONSULTING ENGINEERS, INC.	
 <b>BFI SUNSET FARMS LANDFILL          PERMIT AMENDMENT          MSW 1447-A</b>	
ACE REFERENCE NO. 070-03	<b>GENERAL          LOCATION MAP</b>
DATE: 12/6/01 FILE: GENLOCMAP.dwg	
<b>FIGURE          I.D-1</b>	

11-15-04



**LEGEND**

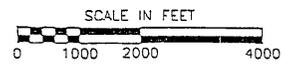
RAILROADS	
CREEKS/STREAMS	
RIVERS/LAKES/PONDS	
RECREATIONAL AREAS	
ROADWAYS	
PERMIT BOUNDARY	
ONE MILE RADIUS	
WATER WELLS	
BUILDINGS WITHIN 500 FT	

**NOTES:**  
 1) WATER WELL INFORMATION OBTAINED FROM BANKS INFORMATION SOLUTIONS, INC.  
 2) SEE FIGURE I.C-2 FOR WIND ROSE INFORMATION.

**BASEMAP SOURCE:**  
 FEATURES AND NAMES TAKEN FROM USGS 7.5' MANOR QUADRANGLE  
 TRANSPORTATION AND HYDROGRAPHY SOURCE DATA FROM US CENSUS BUREAU TIGER 1995 FILES



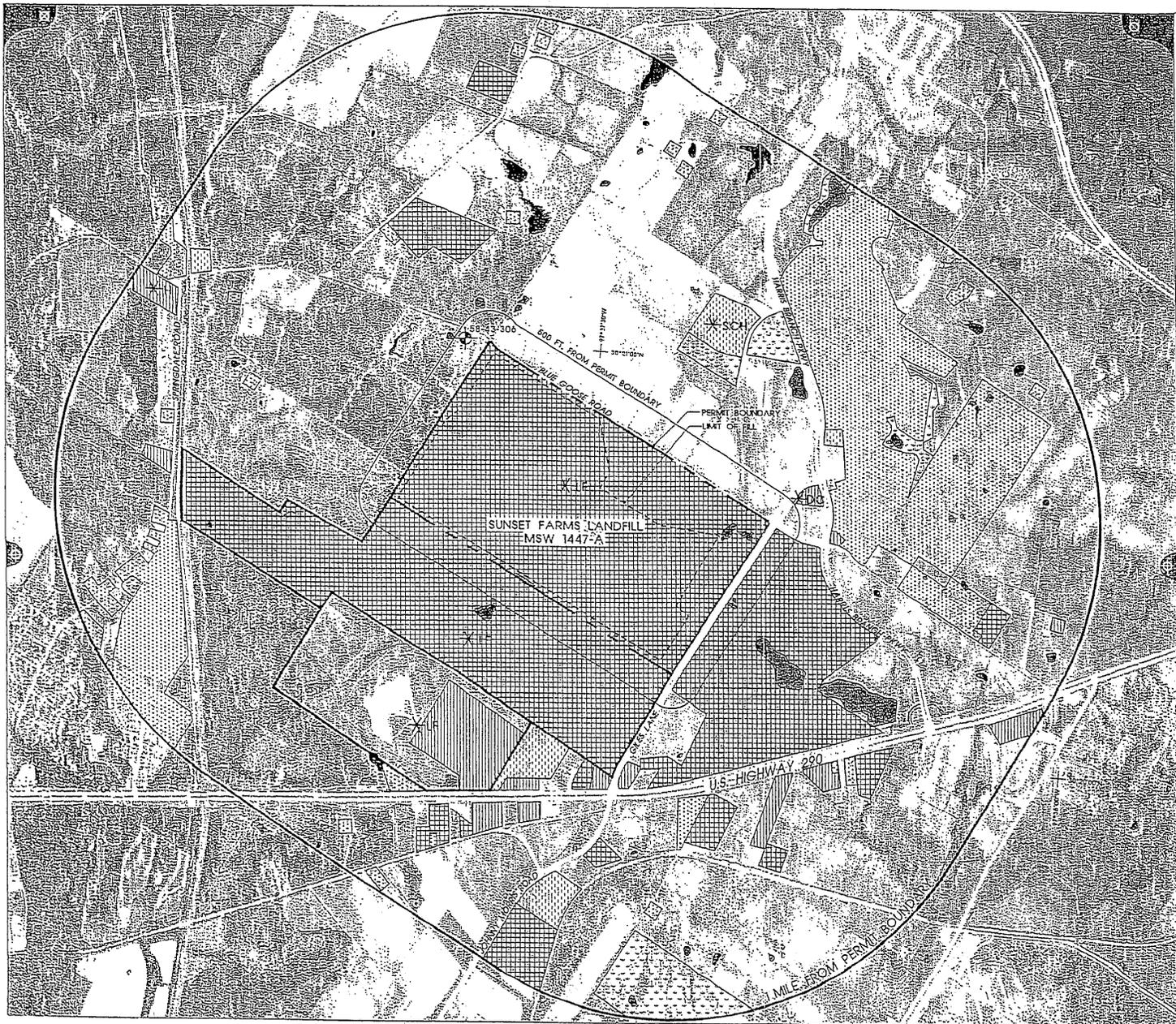
THIS DOCUMENT IS ISSUED FOR PERMIT REVIEW PURPOSES ONLY. IT IS NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES.



**ACE** Associated Consulting Engineers, Inc.  
 901 S. Mopac Expy, Bldg II #165  
 Austin, Texas 78746

**BFI** BFI SUNSET FARMS LANDFILL  
 PERMIT AMENDMENT  
 MSW 1447-A

ACE REFERENCE NO. 070-03	GENERAL SITE MAP	FIGURE I.C-1
DATE: 5/17/2005		
FILE: I.C SITEMAP.dwg		



planning • landscape architecture  
 712 Congress Avenue, Suite 300  
 Austin, TX 78701  
 (512) 480-0032 fax (512) 480-0617  
 RICHARDSON VERDOORN

### FIGURE I.I.C LAND USE MAP

#### Legend

- LAND USE**
- Open (includes agriculture, rights of way, & vacant land)
  - Industrial
  - Residential
  - Commercial
  - Recreational
  - Water
  - Institutional
- \*DC Day Care
  - \*H Historic Site
  - \*LF Landfill Site (past or present)
  - \*SCH School
  - \* Water Well with State ID

For Zoning, reference Figure I.I.D-1  
 For Easements, reference Figure I.I

### LAND USE REPORT

BFI SUNSET FARMS LANDFILL  
 PERMIT AMENDMENT  
 MSW 1447-A

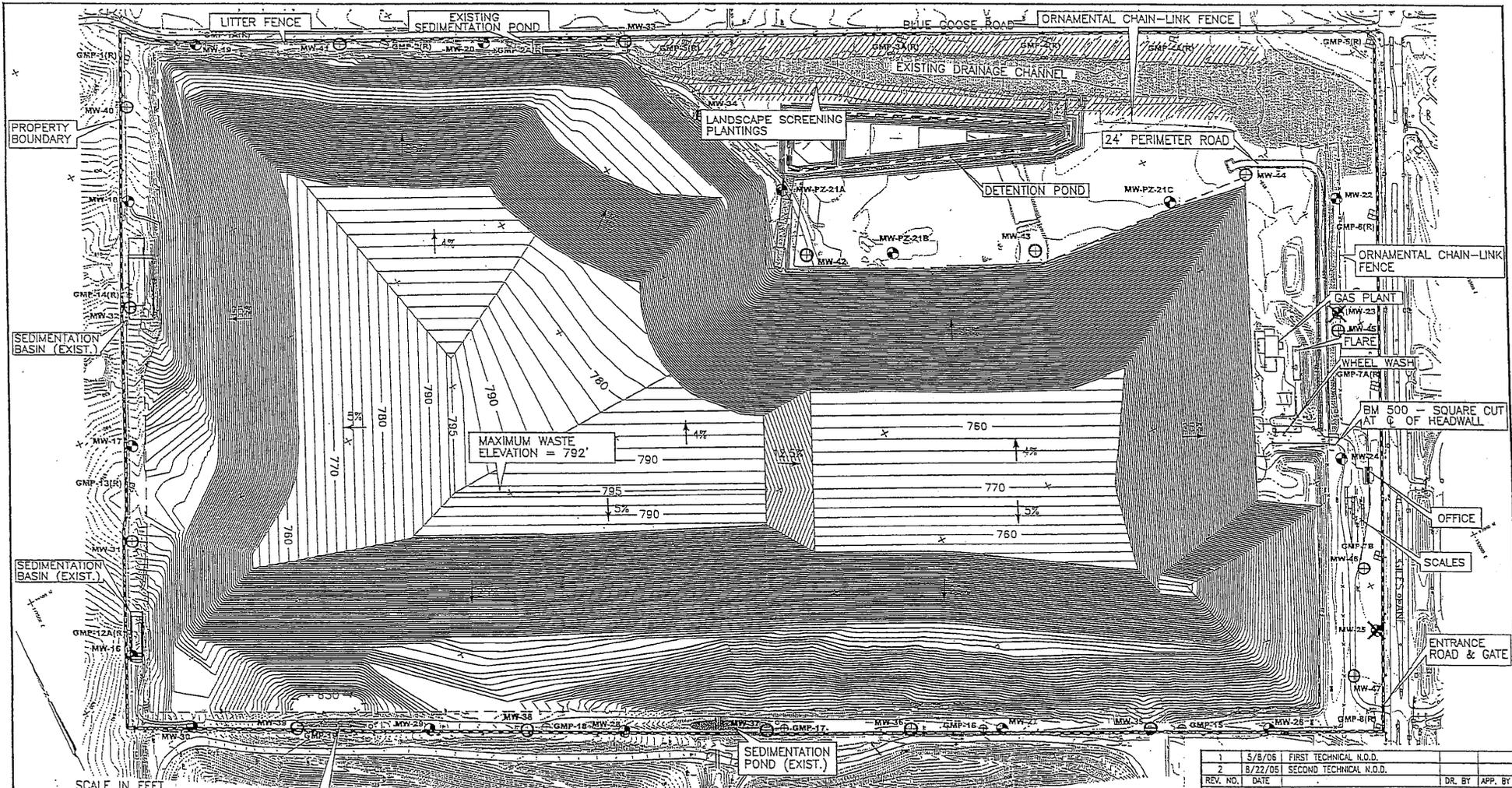


NORTH

SCALE

0 400 800 1600

DATA SOURCES:  
 Field Inventory, May 27, 2004  
 Associated Consulting Engineers, Inc.  
 AERIAL PHOTOGRAPHY:  
 May 7, 2004



SCALE IN FEET  
0 200 400 800

- NOTES:**
- REFER TO ATTACHMENT 5 FOR FLOW RATES FOR RUNOFF ONTO AND OFF THE SITE.
  - THE GAS WELLS IN THE FINAL COVER ARE PRESENTED ON DRAWING ATTACHMENT 14.
  - A CHAIN-LINK PERIMETER FENCE IS EXISTING AND WILL BE MAINTAINED ALONG THE PERMIT BOUNDARY.
  - THE FINAL COVER WILL HAVE INTERCEPTOR BERMS AND FLUMES. REFER TO ATTACHMENT 6 FOR LOCATIONS AND DETAILS OF THE BERMS AND FLUMES.
  - ALL CONTOURS AND ELEVATIONS SHOWN ARE IN FEET ABOVE MEAN SEA LEVEL.

- SEDIMENTATION POND (EXIST.)**
- SEE ATTACHMENT 15 FOR LOCATION OF LEACHATE COLLECTION SYSTEM SUMP RISERS AND CLEANOUTS.
  - THE ENTRANCE ROAD AND PERIMETER ROAD FOR THE SITE WILL CONSIST OF CRUSHED LIMESTONE BASE MATERIAL WITH AN ASPHALT SURFACE. ALL INTERIOR ROADS WILL BE CRUSHED LIMESTONE BASE.
  - 100-YR FLOODPLAIN IS BASED ON CALCULATIONS SUBMITTED WITH CLOMR APPLICATION APPROVED BY FEMA FEB. 6, 2002.
  - BASEMAP CREATED FROM TOPOGRAPHIC SURVEY DATED MARCH 28, 2005 BY BASE MAPPING Co. LTD. ALL ELEVATIONS ARE FEET MSL.

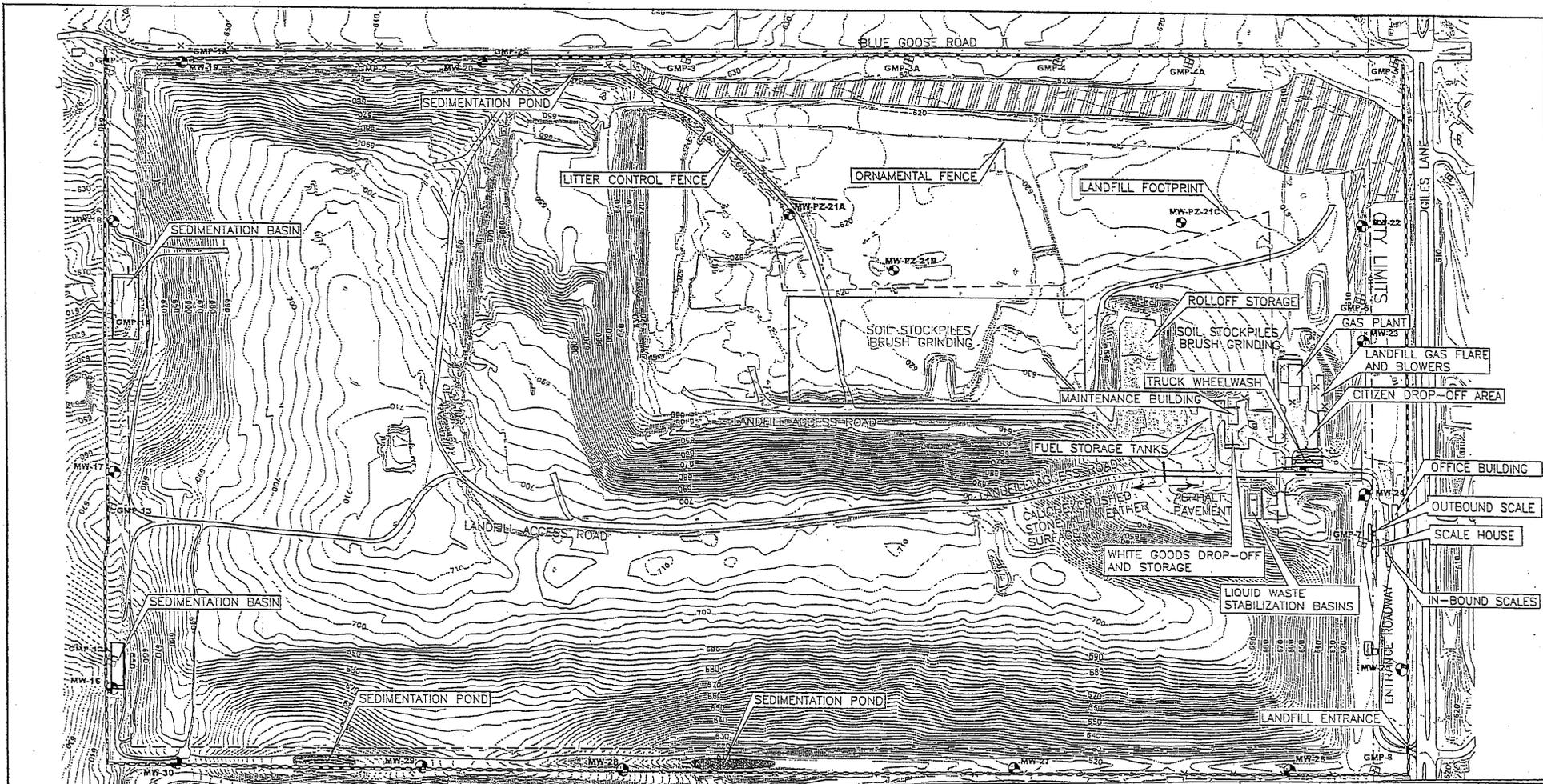
- OPERATING MUNICIPAL LANDFILL (WASTE MANAGEMENT)**
- LEGEND**
- GMP-13 PERMITTED GAS PROBE
  - GMP-17 PROPOSED GAS PROBE
  - MW-29 EXISTING GROUND WATER MONITORING WELL
  - MW-32 PROPOSED GROUND WATER MONITORING WELL
  - MW-23 EXISTING GROUND WATER MONITORING WELL TO BE PLUGGED AND ABANDONED
  - PROPOSED GRADE
  - LANDSCAPE SCREENING PLANTINGS
  - 100 YEAR FLOODPLAIN

**BENCHMARK**

MARK	NORTHING	EASTING	ELEVATION
BM 500	17	152642.90	613.40

ADAM W. MEHEVEC  
84736  
LICENSED PROFESSIONAL ENGINEER  
REVISED 8/22/2006  
**PERMIT DRAWINGS**

1	5/8/06	FIRST TECHNICAL N.O.D.		
2	8/22/06	SECOND TECHNICAL N.O.D.		
REV. NO.	DATE		DR. BY	APP. BY
 ASSOCIATED CONSULTING ENGINEERS, INC.				
 BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A				
ACE REFERENCE NO. 070-03	DATE: 8/22/2006	FILE: ATTACH_1.dwg	SITE LAYOUT PLAN	ATTACHMENT 1
				SHEET 1 OF 2



**LEGEND**

- EXISTING CONTOURS (FT. ABOVE M.S.L.)
- LANDFILL FOOTPRINT
- PERMIT BOUNDARY
- MW-28 MONITOR WELL
- GMP-13 PERMITTED GAS PROBE
- 100-yr FLOODPLAIN



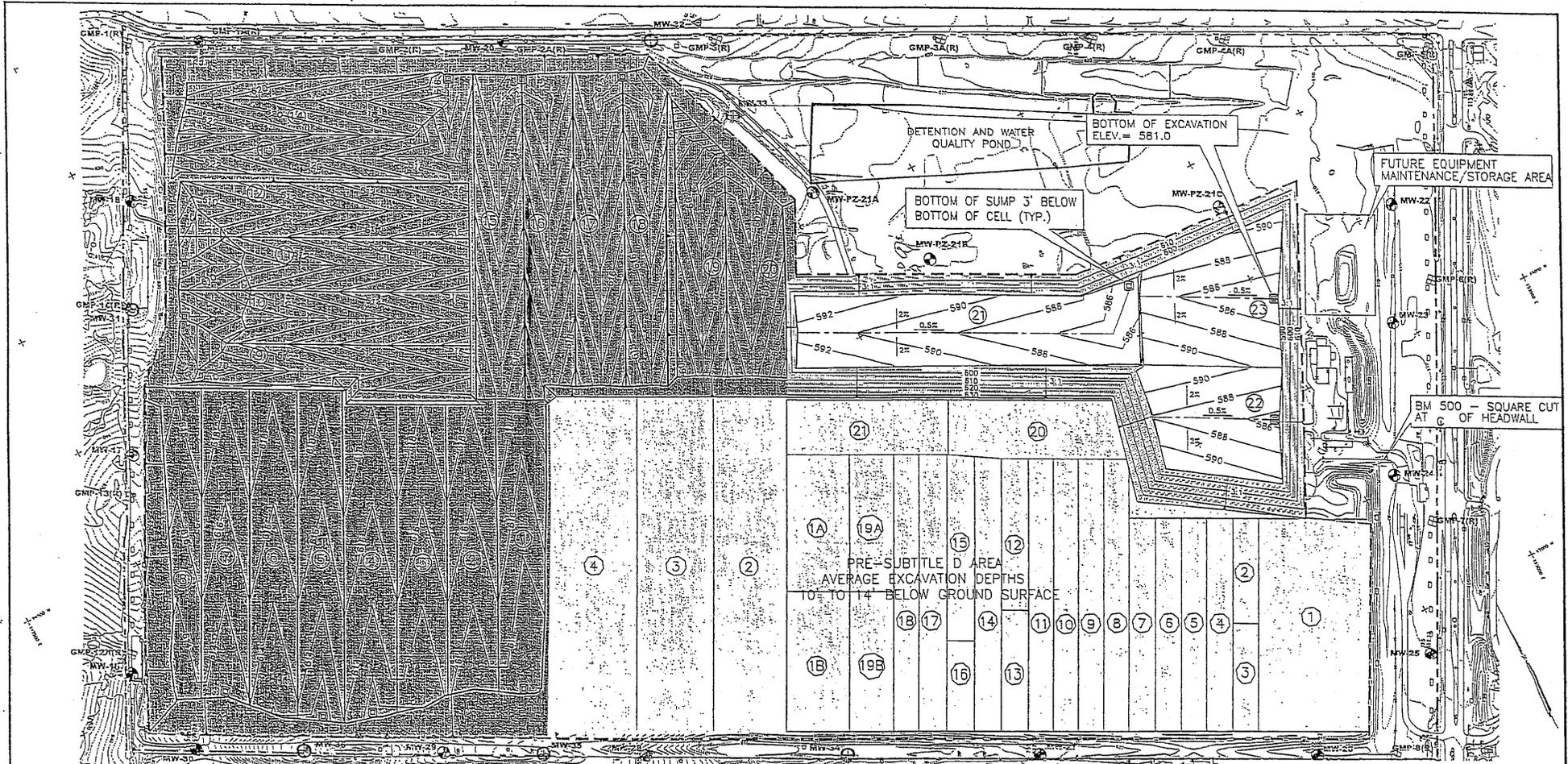
**NOTES:**

1. TOPOGRAPHIC SURVEY MAPPED BY BASE MAPPING COMPANY, LTD., BASED ON AERIAL PHOTOGRAPHY DATED 03/28/05.
2. THE LANDFILL OPERATES UNDER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PERMIT MSW NO. 1447.
3. ALL FACILITIES SHOWN ARE CURRENTLY PERMITTED UNDER MSW 1447.



REVISED 8/22/2006  
**PERMIT DRAWINGS**

1	5/8/05	FIRST TECHNICAL N.O.D.		
2	8/22/06	SECOND TECHNICAL N.O.D.		
REV. NO.	DATE		DR. BY	APP. BY
		ASSOCIATED CONSULTING ENGINEERS, INC.		
		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A		
ACE REFERENCE NO. 070-03	DATE: 8/22/2006	SITE LAYOUT PLAN		ATTACHMENT 1
FILE: ATTACH_1_SHEET2.dwg				SHEET 2 OF 2



**NOTES:**

1. WET WEATHER ACCESS WILL BE MAINTAINED TO THE ACTIVE DISPOSAL AREA THROUGH THE USE OF ALL-WEATHER ROADS.
2. ALL CELLS WHICH HAVE NOT YET RECEIVED WASTE MAY BE USED FOR MULCHING, GRINDING, RECYCLING AND SALVAGING OPERATIONS AND FOR THE TEMPORARY STOCKPILING OF EXCAVATED SOILS OR OTHER MATERIALS. AREAS OUTSIDE THE LANDFILL FOOTPRINT, EXCEPT 100-YEAR FLOODPLAIN, AND AREAS AT LEAST 50' FROM PERMIT BOUNDARY, MAY ALSO BE USED FOR THESE OPERATIONS.
3. WASTE WILL NOT BE SEGREGATED WITHIN THE LANDFILL. ALL WASTES LISTED TO BE ACCEPTED IN THE SITE DEVELOPMENT PLAN MAY BE PLACED IN ANY PORTION OF THE FILL.
4. A LANDFILL GRID SYSTEM WILL BE MAINTAINED IN ACCORDANCE WITH 30 C.F.R. 255.55(b)(10)(F).
5. EXCAVATION GRADES ARE CURRENTLY PERMITTED. NO CHANGES IN EXCAVATION GRADES ARE PROPOSED FOR THIS AMENDMENT.
6. EXCAVATION CONTOURS REPRESENT THE TOP OF SUBGRADE PRIOR TO LINDER CONSTRUCTION.

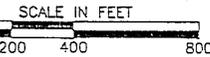
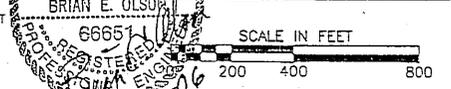
7. ALL CONTOURS SHOWN ARE IN FEET ABOVE MEAN SEA LEVEL.
8. FILLING SEQUENCE
  - a) FILL CURRENT CELL AT TIME OF APPROVAL TO MAXIMUM ALLOWABLE HEIGHT.
  - b) WORK COUNTER-CLOCKWISE AROUND THE LANDFILL, BEGINNING WITH CURRENT CELL, PLACING ADDITIONAL ABOVE GRADE WASTE ON PREVIOUSLY CONSTRUCTED CELLS.
  - c) BEGIN SEQUENTIAL CONSTRUCTION AND FILLING OF UNDEVELOPED CELLS.
9. BASEMAP CREATED FROM TOPOGRAPHIC SURVEY DATED MARCH 28, 2005 BY BASE MAPPING COMPANY, LTD. ALL ELEVATIONS ARE FEET WSL.
10. COORDINATES ARE IN FEET AND ARE NAD83 TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE.
11. PRE-SUBTITLE D CELL BOUNDARIES TAKEN FROM APPROVED SLERS FOR EACH CELL. EXCAVATION GRADES ARE NOT AVAILABLE FOR ALL AREAS. IN GENERAL CELLS WERE EXCAVATED 10' TO 14' BELOW THE EXISTING GROUND SURFACE.

OPERATING MUNICIPAL LABEL (WASTE MANAGEMENT)

**LEGEND**

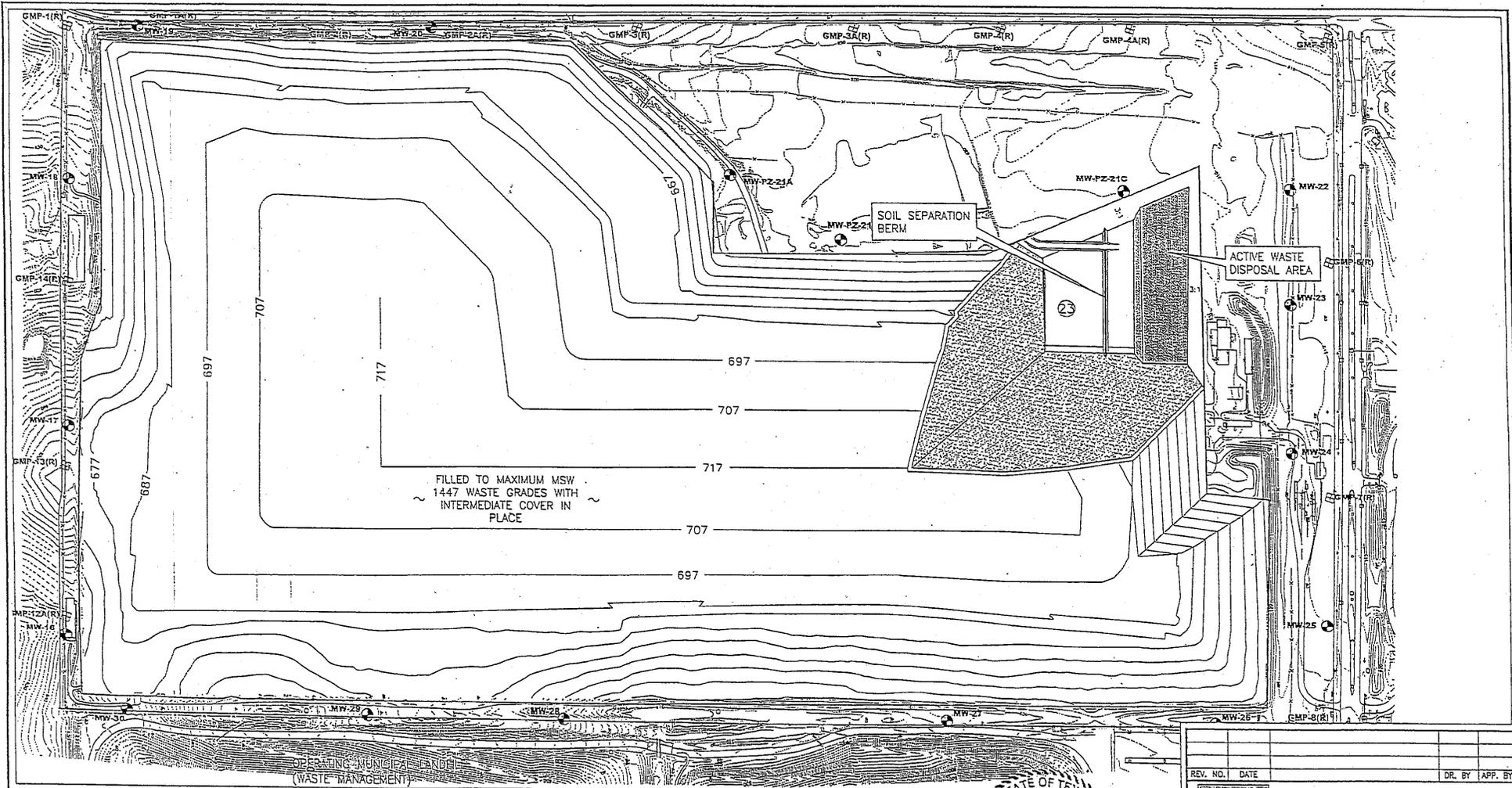
- PREVIOUSLY CONSTRUCTED SUBTITLE D EXCAVATION AND LINERS
- PROPERTY BOUNDARY
- EXISTING LANDFILL FOOTPRINT
- EXCAVATION GRADE
- CELL NUMBER
- PERMITTED GAS PROBE
- PROPOSED GAS PROBE
- EXISTING GROUND WATER MONITORING WELL
- PROPOSED GROUND WATER MONITORING WELL
- EXISTING GROUND WATER MONITORING WELL TO BE PLUGGED AND ABANDONED

BENCHMARK	
NORTHING	EASTING
500.0	7600.17
ELEVATION	
613.40	



REVISED 8/22/2006  
**PERMIT DRAWINGS**

1	5/8/06	FIRST TECHNICAL N.O.D.		
2	8/22/06	SECOND TECHNICAL N.O.D.		
REV. NO.	DATE		DR. BY	APP. BY
		ASSOCIATED CONSULTING ENGINEERS, INC.		
		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A		
ACE REFERENCE NO. 070-03		OVERALL	ATTACHMENT	
DATE: 8/22/2006		EXCAVATION PLAN	1.1	
FILE: ATTACH_1.1.dwg				



**NOTES**

- BASEMAP CREATED FROM TOPOGRAPHIC SURVEY DATED MARCH 28, 2005 BY BASE MAPPING COMPANY, LTD. ALL ELEVATIONS ARE FEET MSL.
- COORDINATES ARE IN FEET AND ARE NAD83 TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE.
- SEQUENCE 1 ANTICIPATES THAT THE ACTIVE DISPOSAL WILL BE OCCURRING IN CELL 23 AT THE TIME THE AMENDMENT APPLICATION IS APPROVED.
- THIS FIGURE IS A DEVELOPMENT SEQUENCE DRAWING AND REPRESENTS THE ANTICIPATED STATE OF THE LANDFILL AT THE TIME THE AMENDMENT APPLICATION IS APPROVED. IT IS THE INITIAL SEQUENCE DRAWING FOR THE 1447-A FILL. THE CONTOURS REPRESENT THE ELEVATIONS THAT THE CELLS WILL BE FILLED TO AT THE TIME THE AMENDMENT IS ANTICIPATED TO BE APPROVED.

OPERATING MUNICIPAL LANDFILL  
(WASTE MANAGEMENT)

**BENCHMARKS**

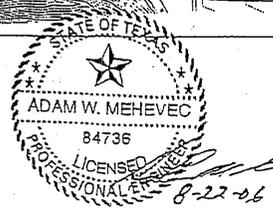
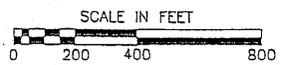
MARK	NORTHING	EASTING	ELEVATION
500	97600.17	152642.90	613.40

**FILL SEQUENCE NOTES**

- PRIOR TO PLACING WASTE ABOVE THE MSW 1447 PERMITTED GRADES, THE FOLLOWING ACTIVITIES WILL OCCUR:
- INSTALL NEW GROUNDWATER MONITOR WELLS SHOWN IN 1447-A.
  - INSTALL PROPOSED GAS MONITORING PROBES SHOWN IN 1447-A.

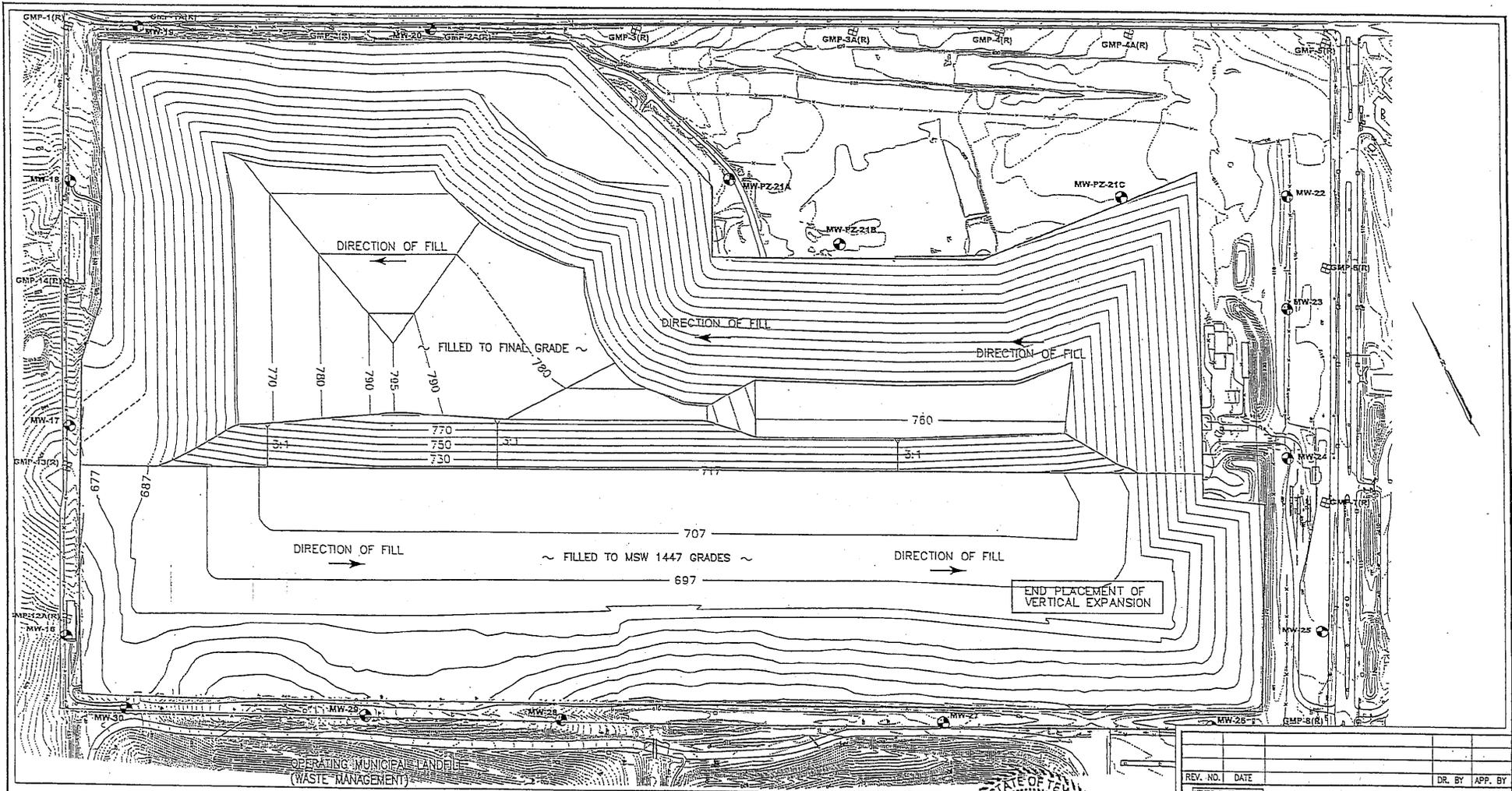
**LEGEND**

- WASTE FACE WITH INTERMEDIATE COVER
- ACTIVE WASTE DISPOSAL AREA



REVISED 8/22/2006  
**PERMIT DRAWINGS**

REV. NO.	DATE	DR. BY	APP. BY
		ASSOCIATED CONSULTING ENGINEERS, INC.	
		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A	
ACE REFERENCE NO. 070-03	DATE: 8/22/06	SEQUENCE 1 (AMENDMENT APPROVED)	ATTACHMENT 1.2 SHEET 1 OF 3
FILE: SEQUENCE_1.dwg			



**NOTES**

1. BASEMAP CREATED FROM TOPOGRAPHIC SURVEY DATED MARCH 28, 2005 BY BASE MAPPING COMPANY, LTD. ALL ELEVATIONS ARE FEET MSL.
2. COORDINATES ARE IN FEET AND ARE NAD83 TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE.

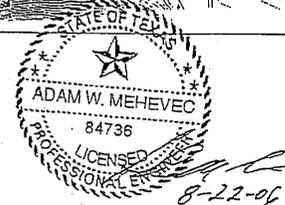
**FILL SEQUENCE NOTES**

- PRIOR TO PLACING WASTE ABOVE THE MSW 1447 PERMITTED GRADES, THE FOLLOWING ACTIVITIES WILL OCCUR:
1. INSTALL NEW GROUNDWATER MONITOR WELLS SHOWN IN 1447-A.
  2. INSTALL PROPOSED GAS MONITORING PROBES SHOWN IN 1447-A.
  3. PLACEMENT OF ADDITIONAL FILL AUTHORIZED UNDER 1447-A WILL COMMENCE NEAR THE NORTHEAST CORNER OF THE LANDFILL AND CONTINUE COUNTER-CLOCKWISE AROUND THE LANDFILL AS SHOWN.



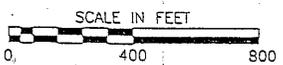
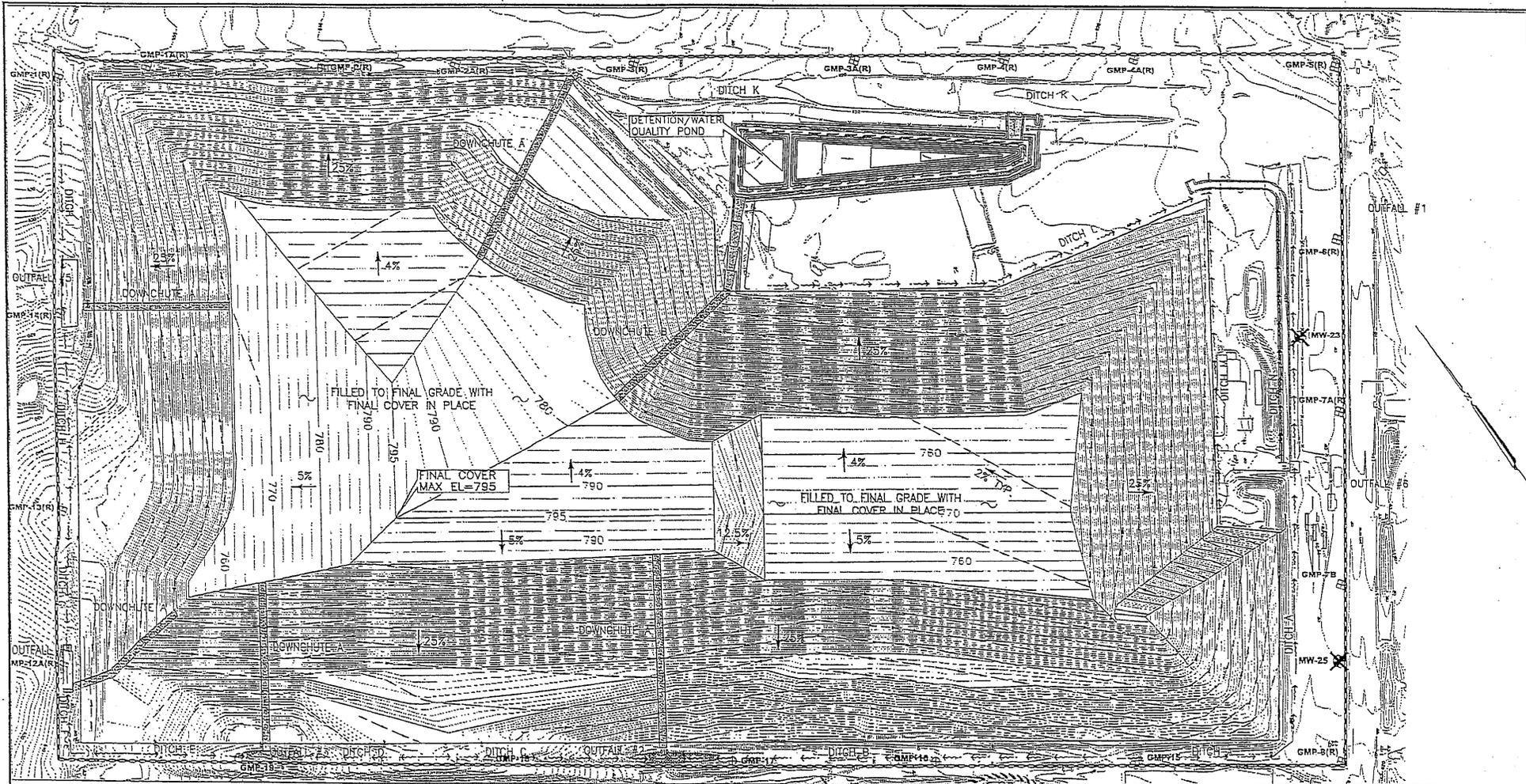
**BENCHMARKS**

MARK	NORTHING	EASTING	ELEVATION
500	97600.17	152642.90	613.40



REVISED 8/22/2006  
**PERMIT DRAWINGS**

REV. NO.	DATE	DR. BY	APP. BY
 <b>ASSOCIATED CONSULTING ENGINEERS, INC.</b>			
		<b>BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A</b>	
ACE REFERENCE NO. 070-03	DATE: 08/22/06	SEQUENCE 2 (PROGRESSION OF VERTICAL EXPANSION)	ATTACHMENT 1.2 SHEET 2 OF 3
FILE: SEQUENCE_2.dwg			



**NOTES**

- BASEMAP CREATED FROM TOPOGRAPHIC SURVEY DATED MARCH 28, 2005 BY BASE MAPPING COMPANY, LTD. ALL ELEVATIONS ARE FEET MSL.
- COORDINATES ARE IN FEET AND ARE NAD83 TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE.

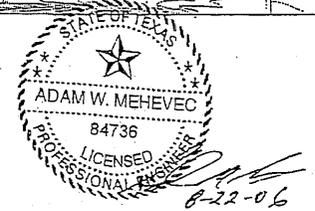
**FILL SEQUENCE NOTES**

PRIOR TO PLACING WASTE ABOVE THE MSW 1447 PERMITTED GRADES, THE FOLLOWING ACTIVITIES WILL OCCUR:

- INSTALL NEW GROUNDWATER MONITOR WELLS SHOWN IN 1447-A.
- INSTALL PROPOSED GAS MONITORING PROBES SHOWN IN 1447-A.
- PLACEMENT OF ADDITIONAL FILL AUTHORIZED UNDER 1447-A WILL COMMENCE NEAR THE NORTHEAST CORNER OF THE LANDFILL AND CONTINUE COUNTER-CLOCKWISE AROUND THE LANDFILL AS SHOWN.

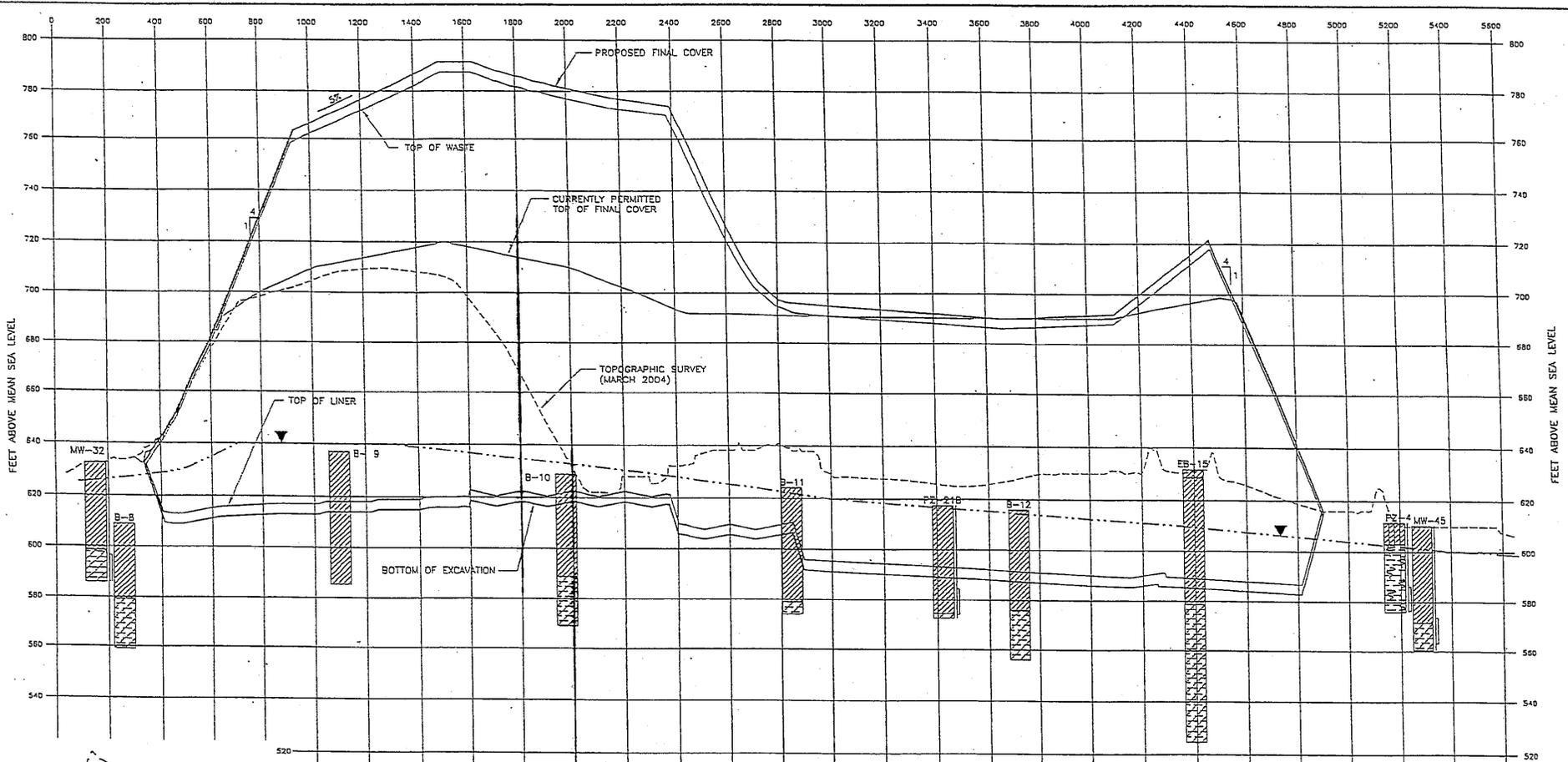
**LEGEND**

- PERMIT BOUNDARY
- DIVERSION BERMS
- PERIMETER DRAINAGE SWALE
- 100-yr FLOODPLAIN

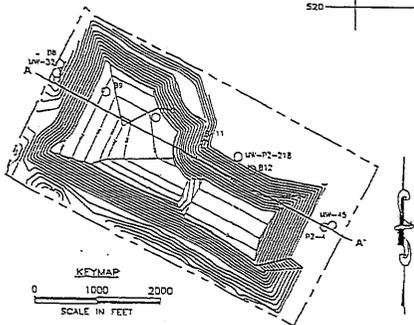


REVISED 8/22/2006  
**PERMIT DRAWINGS**

ASSOCIATED CONSULTING ENGINEERS, INC.		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A	ATTACHMENT 1.2 SHEET 3 OF 3
ACE REFERENCE NO. 070-03			
DATE: 08/22/06 FILE: Sequence_3.dwg		SEQUENCE 3 (COMPLETION OF VERTICAL EXPANSION)	

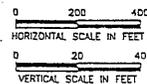


CROSS SECTION A-A'

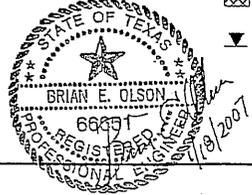


NOTES:

1. ALL EXCAVATION GRADES ARE CURRENTLY PERMITTED UNDER MSW 1447. NO CHANGES IN EXCAVATION DEPTHS ARE PROPOSED AS PART OF THIS AMENDMENT.
2. EXCAVATION GRADES FOR PRE-SUBSTITUTE D CELLS ARE UNKNOWN.
3. SEE ATTACHMENT 12 FOR LINER AND COVER COMPONENTS.
4. SEE ATTACHMENT 4, APPENDIX 4B FOR SOIL BORING INFORMATION AND APPENDIX 4C FOR GEOLOGIC CROSS-SECTIONS.
5. GROUNDWATER LEVELS ARE BASED ON THE STABILIZED WATER LEVELS AS OBSERVED IN THE WEATHERED TAYLOR MARL IN SITE WELLS FROM DECEMBER 1999.
6. SEE ATTACHMENT 14 FOR LOCATIONS OF GAS WELLS.
7. THERE ARE NO PERIMETER OR TOE BERMS UTILIZED AT THIS SITE.

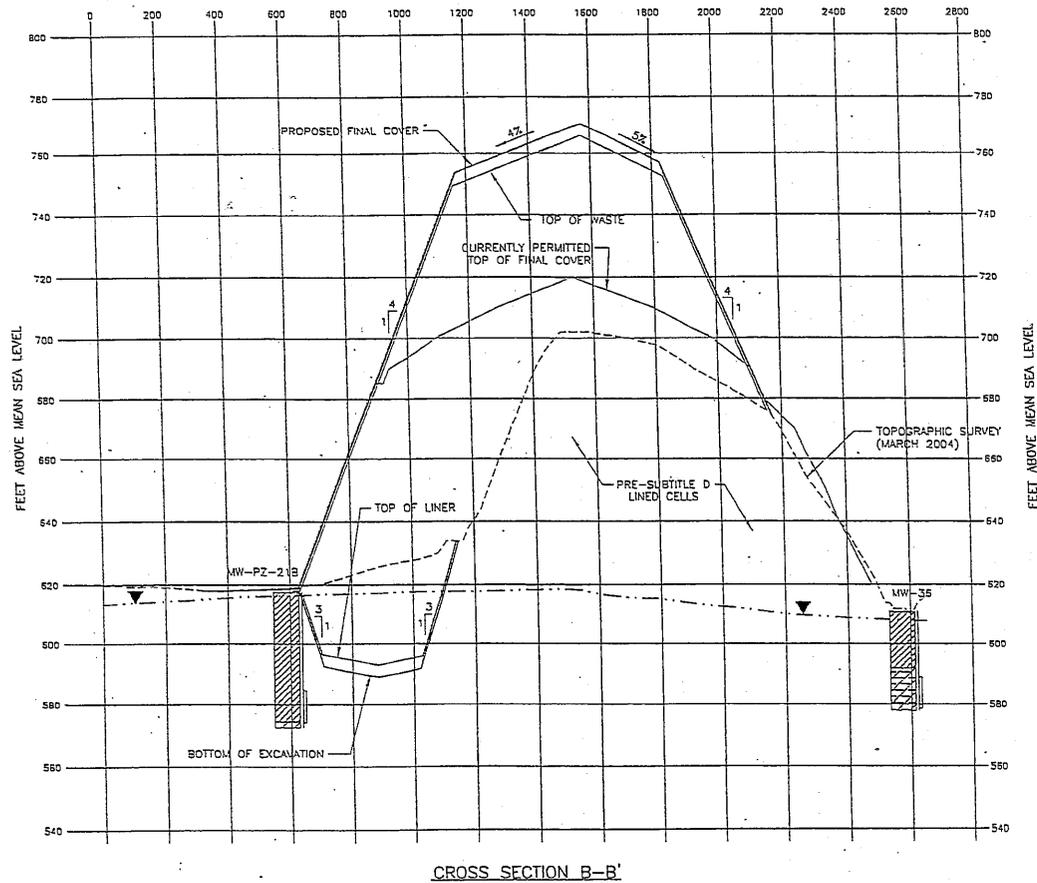


LEGEND

REVISED 1/18/2007  
**PERMIT DRAWINGS**

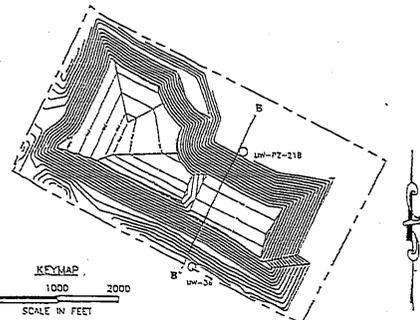
1	5/8/05	FIRST TECHNICAL N.O.D.		
2	8/22/06	SECOND TECHNICAL N.O.D.		
3	1/18/07	SUPPLEMENTAL COMMENT		
REV. NO.	DATE	SUPPLEMENTAL COMMENT	DR. BY	APP. BY
 ASSOCIATED CONSULTING ENGINEERS, INC.				
		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A		
ACE REFERENCE NO. 070-03		FILL CROSS SECTIONS		ATTACHMENT 2
DATE: 1/18/2007		SHEET 1 of 4		
FILE: ATTACH_2_SHT_1.dwg				



**NOTES:**

1. ALL EXCAVATION GRADES ARE CURRENTLY PERMITTED UNDER MSW 1447. NO CHANGES IN EXCAVATION DEPTHS ARE PROPOSED AS PART OF THIS AMENDMENT.
2. EXCAVATION GRADES FOR PRE-SUBTITLE D CELLS ARE UNKNOWN.
3. SEE ATTACHMENT 12 FOR LINER AND COVER COMPONENTS.
4. SEE ATTACHMENT 4, APPENDIX 4B FOR SOIL BORING INFORMATION AND APPENDIX 4C FOR GEDLOGIC CROSS-SECTIONS.
5. GROUNDWATER LEVELS ARE BASED ON THE STABILIZED WATER LEVELS AS OBSERVED IN THE WEATHERED TAYLOR MARL IN SITE WELLS FROM DECEMBER 1999.
6. SEE ATTACHMENT 14 FOR LOCATIONS OF GAS WELLS.
7. THERE ARE NO PERIMETER OR TOE BERMS UTILIZED AT THIS SITE.

CROSS SECTION B-B'



**LEGEND**

Clay (CL)	Clayey Shale	Shaly Clay
Silty Clay	Shale	Weathered Shale
FH		

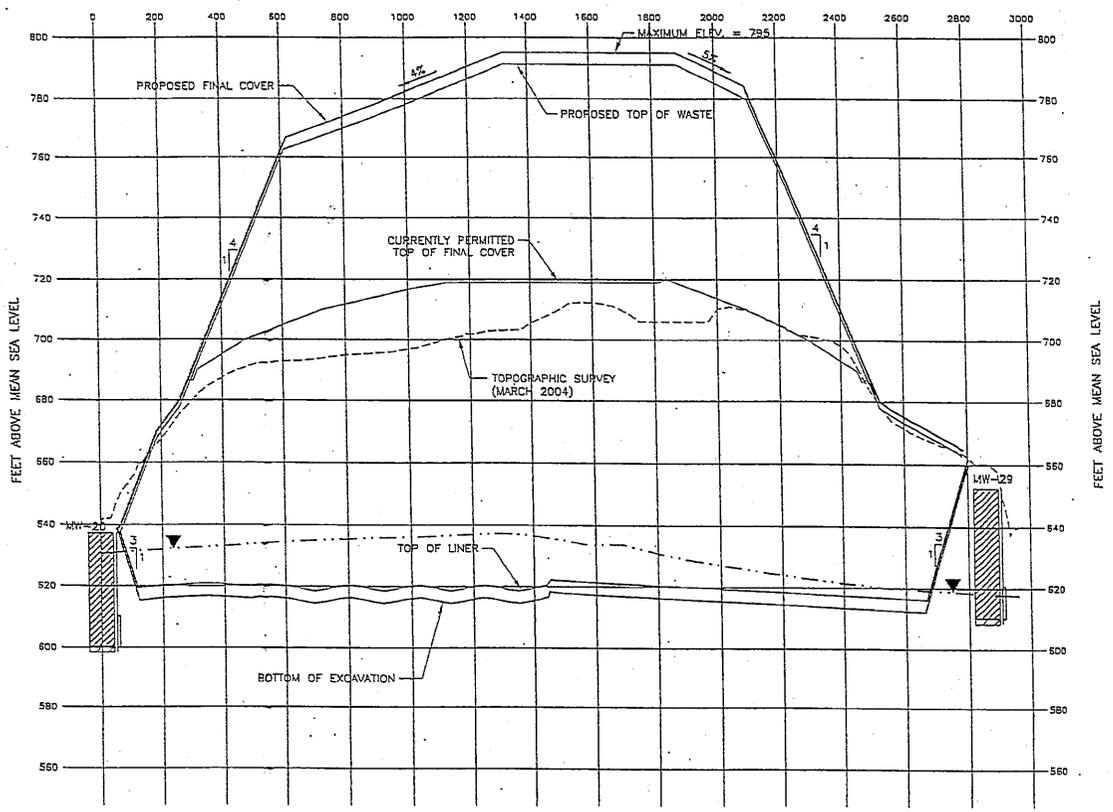
GROUNDWATER LEVEL FROM DECEMBER 1999

HORIZONTAL SCALE IN FEET  
 0 200 400  
 0 20 40  
 VERTICAL SCALE IN FEET



REVISED 8/22/2006  
**PERMIT DRAWINGS**

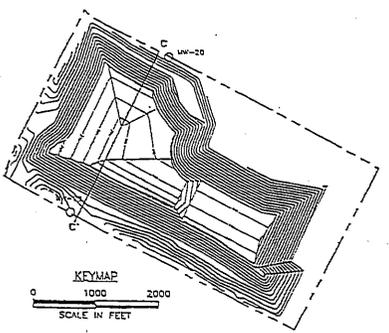
1	5/8/06	FIRST TECHNICAL N.O.D.		
2	8/22/06	SECOND TECHNICAL N.O.D.		
REV. NO.	DATE		DR. BY	APP. BY
		ASSOCIATED CONSULTING ENGINEERS, INC.		
		BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A		
ACE REFERENCE NO. 070-03		FILL CROSS SECTIONS		ATTACHMENT 2
DATE: 8/22/2006				
FILE: ATTACH_2.dwg				



CROSS SECTION C-C'

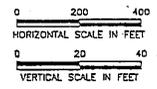
NOTES:

1. ALL EXCAVATION GRADES ARE CURRENTLY PERMITTED UNDER MSW 1447. NO CHANGES IN EXCAVATION DEPTHS ARE PROPOSED AS PART OF THIS AMENDMENT.
2. EXCAVATION GRADES FOR PRE-SUBTITLE D CELLS ARE UNKNOWN.
3. SEE ATTACHMENT 12 FOR LINER AND COVER COMPONENTS.
4. SEE ATTACHMENT 4, APPENDIX 4B FOR SOIL BORING INFORMATION AND APPENDIX 4C FOR GEOLOGIC CROSS-SECTIONS.
5. GROUNDWATER LEVELS ARE BASED ON THE STABILIZED WATER LEVELS AS OBSERVED IN THE WEATHERED TAYLOR MARL IN SITE WELLS FROM DECEMBER 1999.
6. SEE ATTACHMENT 14 FOR LOCATIONS OF GAS WELLS.
7. THERE ARE NO PERIMETER OR TOE BERMS UTILIZED AT THIS SITE.



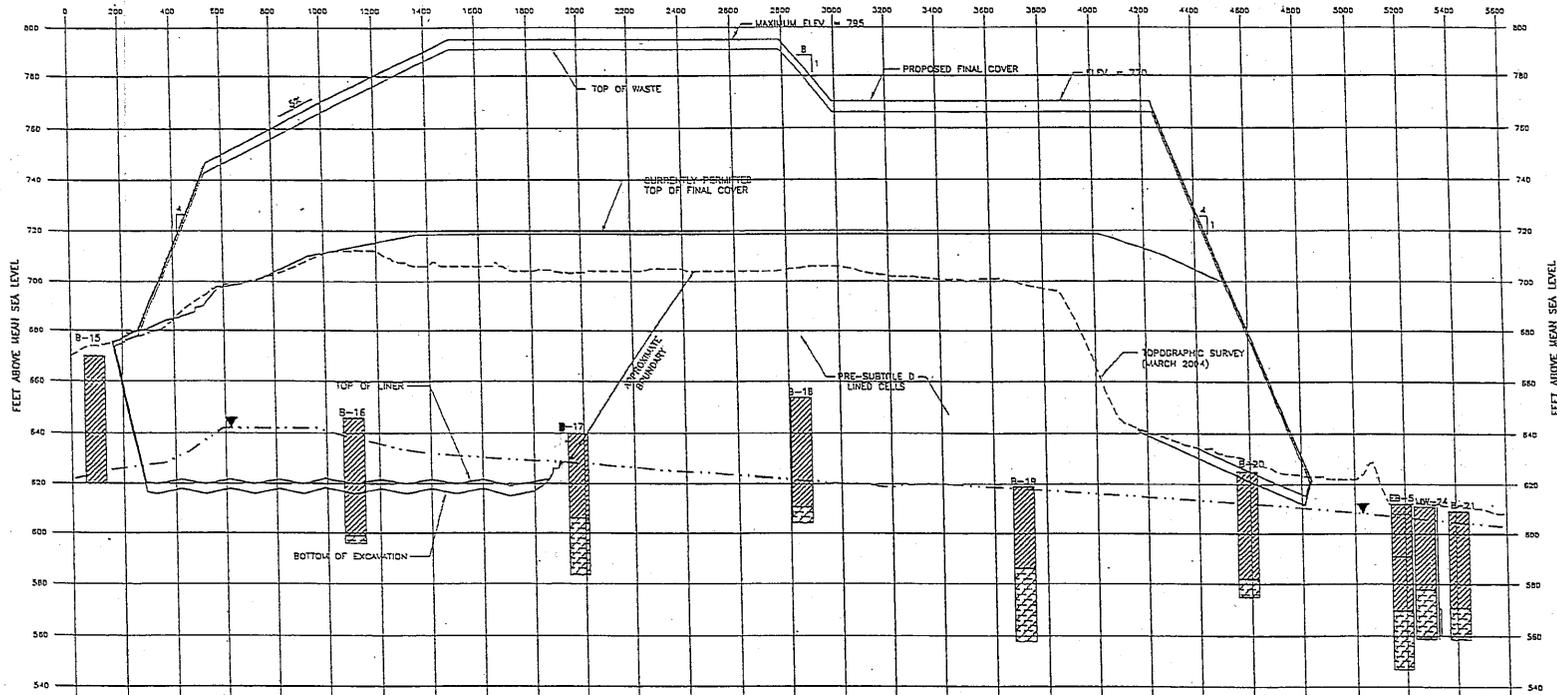
LEGEND


▼ ..... GROUNDWATER LEVEL FROM DECEMBER 1999



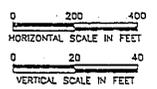
REVISED 5/8/2006  
**PERMIT DRAWINGS**

REV. NO.	DATE	DR. BY	APP. BY
ASSOCIATED CONSULTING ENGINEERS, INC.			
BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A			
ACE REFERENCE NO. 070-03	FILL CROSS SECTIONS	ATTACHMENT 2	
DATE: 5/8/2006		SHEET 3 of 4	
FILE: ATTACH_2.dwg			



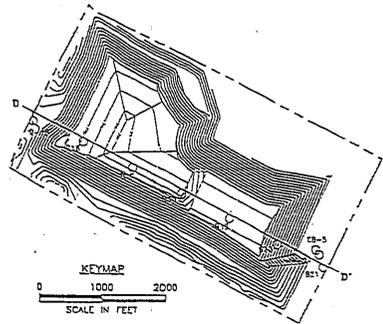
CROSS SECTION D-D'

- LEGEND
- Clay (CL)
  - Clayey Shale
  - Shaley Clay
  - Silty Clay
  - Shale
  - Weathered Shale
  - Fill
  - GROUNDWATER LEVEL FROM DECEMBER 1999



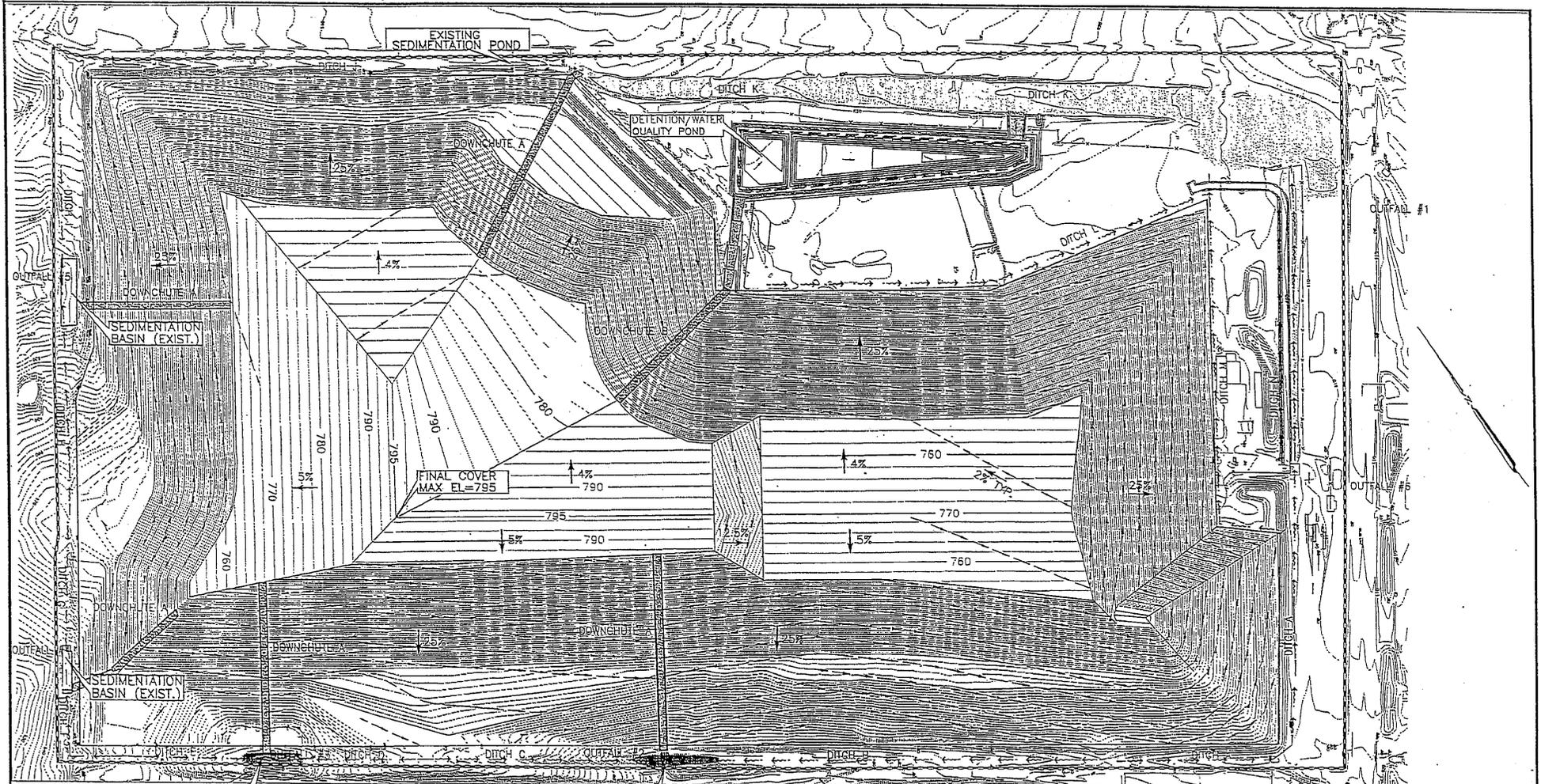
NOTES:

1. ALL EXCAVATION GRADES ARE CURRENTLY PERMITTED UNDER MSW 1447. NO CHANGES IN EXCAVATION DEPTHS ARE PROPOSED AS PART OF THIS AMENDMENT.
2. EXCAVATION GRADES FOR PRE-SUBTITLE D CELLS ARE UNKNOWN.
3. SEE ATTACHMENT 12 FOR LINER AND COVER COMPONENTS.
4. SEE ATTACHMENT 4, APPENDIX 4B FOR SOIL BORING INFORMATION AND APPENDIX 4C FOR GEOLOGIC CROSS-SECTIONS.
5. GROUNDWATER LEVELS ARE BASED ON THE STABILIZED WATER LEVELS AS OBSERVED IN THE WEATHERED TAYLOR MARL IN SITE WELLS FROM DECEMBER 1999.
6. SEE ATTACHMENT 14 FOR LOCATIONS OF GAS WELLS.
7. THERE ARE NO PERIMETER OR TOE BERMS UTILIZED AT THIS SITE.



REVISED 1/18/2007  
**PERMIT DRAWINGS**

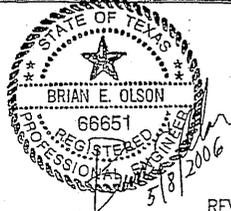
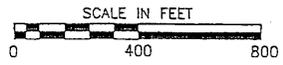
1	5/8/06	FIRST TECHNICAL N.O.D.		
2	1/18/07	SUPPLEMENTAL COMMENT		
REV. NO.	DATE		DR. BY	APP. BY
ASSOCIATED CONSULTING ENGINEERS, INC.				
BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A				
ACE REFERENCE NO. 070-03		FILL CROSS SECTIONS		ATTACHMENT 2
DATE: 1/18/2007		FILE: ATTACH_2.dwg		
SHEET 4 of 4				



- NOTES:**
1. BASEMAP SOURCE: AERIAL TOPOGRAPHY BY BASE MAPPING COMPANY, LTD., DATED 3/28/2005.
  2. ALL CONTOURS AND ELEVATIONS SHOWN ARE IN FEET ABOVE MEAN SEA LEVEL.
  3. SEE FIGURE 6-A-3 FOR DIVERSION BERM DETAILS.
  4. SEE FIGURE 6-13 FOR WATER QUALITY/DETENTION POND DETAILS.
  5. SEE FIGURES 6-5 THROUGH 6-14 FOR DRAINAGE DITCH DETAILS.
  6. SEE ATTACHMENT 7-1 FOR CROSS SECTIONS.

**LEGEND**

	PERMIT BOUNDARY
	DIVERSION BERMS
	PERIMETER DRAINAGE SWALE
	100-yr FLOODPLAIN



REVISED 5/8/2006  
**PERMIT DRAWINGS**

ASSOCIATED CONSULTING ENGINEERS, INC.	
BFI SUNSET FARMS LANDFILL PERMIT AMENDMENT MSW 1447-A	
ACE REFERENCE NO. 070-03	ATTACHMENT 7 AND FIGURE 12-1
DATE: 5/8/2006 FILE: ATT_7.dwg	FINAL CONTOUR MAP

**Compliance History**  
**Prepared Under 30 Texas Administrative Code Chapter 60**

Customer/Respondent/Owner-Operator: BFI Waste Systems of North America, Inc.  
P.O. Box 201690  
San Antonio, Texas 78220-8690  
CN600343826

Regulated Entity: BFI Sunset Farms Landfill  
MSW Permit Number 1447A  
9912 Giles Road  
Austin, Texas 78754-9747  
RN100542752

Location: Approximately three quarters of a mile north of the  
intersection of Giles Road and U.S. Highway 290 in  
Travis County, Texas

Compliance History Publication Date: October 1, 2006

Compliance Period: September 1, 2001 through August 31, 2006

Agency Decision Requiring Compliance History (Mark One)

- the issuance, renewal, AMENDMENT, modification, denial suspension or revocation of a permit,  
 enforcement,  
 the use of announced investigations,  
 participation in innovation programs,

TCEQ staff person to contact for additional information regarding this compliance history:

Name: Arten Avakian  
Phone Number: (512) 239-4419

## Compliance History

Customer/Respondent/Owner-Operator:	CN600343826 BFI Waste Systems of North America, Inc.	Classification: AVERAGE	Rating: 2.94
Regulated Entity:	RN100542752 BFI WASTE SERVICES AUSTIN	Classification: AVERAGE	Site Rating: 19.25
ID Number(s):	AIR OPERATING PERMITS	ACCOUNT NUMBER	TH0522W
	AIR OPERATING PERMITS	PERMIT	1452
	AIR OPERATING PERMITS	ACCOUNT NUMBER	TH0232L
	AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	TH0232L
	AIR NEW SOURCE PERMITS	PERMIT	70311
	AIR NEW SOURCE PERMITS	PERMIT	70416
	AIR NEW SOURCE PERMITS	AFS NUM	4845300341
	MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1447
	MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1447A
	STORMWATER	EPA ID	TXR05F277
	STORMWATER	PERMIT	TXR05O364
	PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	47896
	TIRES	REGISTRATION	99807
Location:	9912 Giles Rd. Austin TX. 78754. Site LOCATED ON GILES ROAD APPROX. 3/4 MILE NORTH OF HWY 290, EAST OF AUSTIN, TEXAS		Rating Date: September 01 07 Repeat Violator: NO
TCEQ Region:	REGION 11 - AUSTIN		
Date Compliance History Prepared:	January 22, 2008		
Agency Decision Requiring Compliance History:	Enforcement		
Compliance Period:	March 21, 2001 to March 21, 2007		

TCEQ Staff Member to Contact for Additional Information Regarding this Compliance History

Name: BOBBIE ROGANS Phone: 239-6197

### Site Compliance History Components

- |  |            |
|--|------------|
| 1. Has the site been in existence and/or operation for the full five year compliance period? | Yes        |
| 2. Has there been a (known) change in ownership of the site during the compliance period?    | No         |
| 3. If Yes, who is the current owner?   | <u>N/A</u> |
| 4. If Yes, who was/were the prior owner(s)?  | <u>N/A</u> |
| 5. When did the change(s) in ownership occur?  | <u>N/A</u> |

### Components (Multimedia) for the Site :

- A. Final Enforcement Orders, court judgements, and consent decrees of the state of Texas and the federal government.
- Effective Date: 07/05/2004 ADMINORDER 2002-0936-MLM-E
- Classification: Moderate
- Citation: 30 TAC Chapter 330, SubChapter F 330.111
- Description: The leachate head exceeded the 12-inch maximum limit stated in the facility's Site Operating Plan.
- Classification: Moderate
- Citation: 30 TAC Chapter 330, SubChapter F 330.111
- Description: The monitoring frequency of the leachate collection sumps was not increased after leachate levels were measured above 12 inches.
- Classification: Moderate
- Citation: 30 TAC Chapter 101, SubChapter A 101.4  
5C THC Chapter 382, SubChapter A 382.085(b)
- Description: Failure to prevent the discharge of air contaminants in such concentration and of such duration as to interfere with the normal use and enjoyment of property.
- Classification: Moderate
- Citation: 2D TWC Chapter 26, SubChapter A 26.121  
30 TAC Chapter 305, SubChapter F 305.125(11)
- Rqmt Prov: PART III, SECTION A.5.h. PERMIT
- Description: Failed to conduct quarterly visual inspections of either each outfall or a representative outfall.
- Classification: Moderate
- Citation: TWC Chapter 26 26.121(a)(2)
- Description: Allowed an unauthorized discharge of waste into or adjacent to water in the state.

B. Any criminal convictions of the state of Texas and the federal government.

N/A

C. Chronic excessive emissions events.

N/A

D. The approval dates of investigations. (CCEDS Inv. Track. No.)

1	06/15/2001	(93639)
2	12/27/2001	(93640)
3	05/13/2002	(355)
4	06/13/2002	(98)
5	02/19/2003	(17338)
6	04/15/2003	(18423)
7	12/30/2003	(253810)
8	02/09/2004	(261429)
9	03/30/2004	(265867)
10	08/20/2004	(288762)
11	07/15/2005	(400094)
12	11/29/2005	(437648)
13	03/08/2006	(457600)
14	08/15/2006	(483620)
15	12/14/2006	(532225)

E. Written notices of violations (NOV). (CCEDS Inv. Track. No.)

Date: 12/10/2002 (15423)

Self Report? NO

Classification: Moderate

Citation: 30 TAC Chapter 111, SubChapter A 111.111(a)(4)

Description: Failure to comply with visible emission limits for a process gas flare.

Date: 12/29/2003 (253810)

Self Report? NO

Classification: Moderate

Citation: TWC Chapter 26 26.121

Description: Unauthorized discharge of sediment.

F. Environmental audits.

N/A

G. Type of environmental management systems (EMSs).

N/A

H. Voluntary on-site compliance assessment dates.

N/A

I. Participation in a voluntary pollution reduction program.

N/A

J. Early compliance.

N/A

Sites Outside of Texas

N/A

# Compliance History

## Regulated Entity

Number: RN100542752  
 Name: BFI WASTE SERVICES AUSTIN  
 Classification: AVERAGE  
 Rating: 17.77  
 Publication Date: 10/01/2006

## Customer

Number: CN600260426  
 Name: Browning-Ferris Industries, Inc.  
 Classification: AVERAGE  
 Rating: 4.84  
 Publication Date: 10/01/2006

Repeat Violator Ind: NO

Compliance History Start:  End:

## Enforcement Actions

Type	Effective Date	Violations		
		Citation/Requirement Provision	Abbv. Description	Classification
ADMINORDER	07/05/2004	2D TWC Chapter 26, SubChapter A 26.121 [G]; 30 TAC Chapter 305, SubChapter F 305.125(11); PERMIT PART III, SECTION A.5.h.	Failed to conduct quarterly visual inspections of either each outfall or a representative outfall.	MODERATE
ADMINORDER	07/05/2004	TWC Chapter 26 26.121(a)(2)	Allowed an unauthorized discharge of waste into or adjacent to water in the state.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The leachate head exceeded the 12-inch maximum limit stated in the facility's Site Operating Plan.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The monitoring frequency of the leachate collection sumps was not increased after leachate levels were measured above 12 inches.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 101, SubChapter A 101.4; 5C THC Chapter 382, SubChapter A 382.085(b)	Failure to prevent the discharge of air contaminants in such concentration and of such duration as to interfere with the normal use and enjoyment of property.	MODERATE

## Criminal Convictions

Conviction Date	Number of		Violations		
	Felonies	Misdemeanors	Citation/Requirement Provision	Abbv. Description	Classification

## Chronic Excessive Emissions Events

## Early Compliance

Date	Description
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# Compliance History

## Regulated Entity

Number: RN100542752  
 Name: BFI WASTE SERVICES AUSTIN  
 Classification: AVERAGE  
 Rating: 17.77  
 Publication Date: 10/01/2006

## Customer

Number: CN600343826  
 Name: BFI Waste Systems of North America, Inc.  
 Classification: AVERAGE  
 Rating: 2.59  
 Publication Date: 10/01/2006

Repeat Violator Ind: NO

Compliance History Start:  End:

## Enforcement Actions

Type	Effective Date	Violations		
		Citation/Requirement Provision	Abbv. Description	Classification
ADMINORDER	07/05/2004	2D TWC Chapter 26, SubChapter A 26.121 [G]; 30 TAC Chapter 305, SubChapter F 305.125(11); PERMIT PART III, SECTION A.5.h.	Failed to conduct quarterly visual inspections of either each outfall or a representative outfall.	MODERATE
ADMINORDER	07/05/2004	TWC Chapter 26 26.121(a)(2)	Allowed an unauthorized discharge of waste into or adjacent to water in the state.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The leachate head exceeded the 12-inch maximum limit stated in the facility's Site Operating Plan.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The monitoring frequency of the leachate collection sumps was not increased after leachate levels were measured above 12 inches.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 101, SubChapter A 101.4 ; 5C THC Chapter 382, SubChapter A 382.085(b)	Failure to prevent the discharge of air contaminants in such concentration and of such duration as to interfere with the normal use and enjoyment of property.	MODERATE

## Criminal Convictions

Conviction Date	Number of		Violations		
	Felonies	Misdemeanors	Citation/Requirement Provision	Abbv. Description	Classification

## Chronic Excessive Emissions Events

## Early Compliance

Date	Description
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# Compliance History

## Regulated Entity

Number: RN100542752  
 Name: BFI WASTE SERVICES AUSTIN  
 Classification: AVERAGE  
 Rating: 17.77  
 Publication Date: 10/01/2006

## Customer

Number: CN602633174  
 Name: Giles Holdings, L.P.  
 Classification: AVERAGE  
 Rating: 17.77  
 Publication Date: 10/01/2006

Repeat Violator Ind: NO

Compliance History Start:  End:

## Enforcement Actions

Type	Effective Date	Violations		
		Citation/Requirement Provision	Abb. Description	Classification
ADMINORDER	07/05/2004	2D TWC Chapter 26, SubChapter A 26.121 [G]; 30 TAC Chapter 305, SubChapter F 305.125(11); PERMIT PART III, SECTION A.5.h.	Failed to conduct quarterly visual inspections of either each outfall or a representative outfall.	MODERATE
ADMINORDER	07/05/2004	TWC Chapter 26 26.121(a)(2)	Allowed an unauthorized discharge of waste into or adjacent to water in the state.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The leachate head exceeded the 12-inch maximum limit stated in the facility's Site Operating Plan.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The monitoring frequency of the leachate collection sumps was not increased after leachate levels were measured above 12 inches.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 101, SubChapter A 101.4 ; 5C THC Chapter 382, SubChapter A 382.085(b)	Failure to prevent the discharge of air contaminants in such concentration and of such duration as to interfere with the normal use and enjoyment of property.	MODERATE

## Criminal Convictions

Conviction Date	Number of		Violations		
	Felonies	Misdemeanors	Citation/Requirement Provision	Abb. Description	Classification

## Chronic Excessive Emissions Events

## Early Compliance

Date	Description
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# Compliance History

## Regulated Entity

Number: RN100542752  
 Name: BFI WASTE SERVICES AUSTIN  
 Classification: AVERAGE  
 Rating: 17.77  
 Publication Date: 10/01/2006

## Customer

Number: CN601527963  
 Name: BFI Waste Services of Texas, LP  
 Classification: AVERAGE  
 Rating: 3.27  
 Publication Date: 10/01/2006

Repeat Violator Ind: NO

Compliance History Start:  End:

## Enforcement Actions

Type	Effective Date	Violations		
		Citation/Requirement Provision	Abbv. Description	Classification
ADMINORDER	07/05/2004	2D TWC Chapter 26, SubChapter A 26.121 [G]; 30 TAC Chapter 305, SubChapter F 305.125(11); PERMIT PART III, SECTION A.5.h.	Failed to conduct quarterly visual inspections of either each outfall or a representative outfall.	MODERATE
ADMINORDER	07/05/2004	TWC Chapter 26 26.121(a)(2)	Allowed an unauthorized discharge of waste into or adjacent to water in the state.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The leachate head exceeded the 12-inch maximum limit stated in the facility's Site Operating Plan.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 330, SubChapter F 330.111	The monitoring frequency of the leachate collection sumps was not increased after leachate levels were measured above 12 inches.	MODERATE
ADMINORDER	07/05/2004	30 TAC Chapter 101, SubChapter A 101.4; 5C THC Chapter 382, SubChapter A 382.085(b)	Failure to prevent the discharge of air contaminants in such concentration and of such duration as to interfere with the normal use and enjoyment of property.	MODERATE

## Criminal Convictions

Conviction Date	Number of		Violations		
	Felonies	Misdemeanors	Citation/Requirement Provision	Abbv. Description	Classification

## Chronic Excessive Emissions Events

## Early Compliance

Date	Description
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