RJR

April 21, 2008

Mr. Richard Carmichael, Manager
MC-124
MSW Permits Section
Waste Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Subject: Municipal Solid Waste – Williamson County
Proposed Williamson County Recycling and Disposal Facility
Asphalt Shingle Processing Unit Landfill Gas Beneficial Use Facility
Type IX Registration by Rule Request

Dear Mr. Carmichael:

On behalf of Williamson County, RJR Engineering, Ltd., L.L.P. (RJR) is please to submit this Type IX registration by rule application in accordance with Title 30 of the Texas Administrative Code (30 TAC) §330.9(k) for an asphalt shingle processing unit – landfill gas beneficial use facility project to be located at the Williamson County Recycling and Disposal Facility in Williamson County, Texas.

By this request, Williamson County is seeking approval to register an asphalt shingle processing unit that will recover landfill gas for beneficial use. The proposed asphalt shingle processing unit is located within the permit limits of the Williamson County Recycling and Disposal Facility, MSW Permit No. 1405A.

I trust that this submittal is complete and will lead to approval of this registration by rule request. If you have any questions or comments concerning this submittal, please contact me at telephone number (281) 397-6747.

Sincerely,
RJR Engineering, Ltd., L.L.P.

J. Roy Murray, P.E.
Vice President

Enclosures

cc: Honorable Judge Dan A. Gattis, Williamson County
Steve Jacobs, WMTX
Tim Champagne, WMTX

Texas Commission on Environmental Quality

Permit or Registration Application for Municipal Solid Waste Facility

Part I

A. General Information

Facility Name:	Williamson County Recycling and Disposal Facility			
Physical or Street Address (if available):	600 Landfill Road			
(City) (County)(State)(Zip Code):	Hutto	Williamson	TX	78634
(Area Code) Telephone Number:	512-759-8881			
Charter Number:	NA			

If the application is submitted on behalf of a corporation, provide the Charter Number as recorded with the Office of the Secretary of State for Texas.

Operator Name[1]:	Waste Management of Texas, Inc.			
Mailing Address:	9900 Giles Road			
(City) (County)(State)(Zip Code):	Austin	Travis	TX	78754
(Area Code) Telephone Number:	512-272-6254			
(Area Code) FAX Number:	512-272-9370			
Charter Number:	002230000			

If the permittee is the same as the operator, type "Same as Operator".

Permittee Name:	Williamson County			
Physical or Street Address (if available):	701 Main Street, Suite 101			
(City) (County)(State)(Zip Code):	Georgetown	Williamson	TX	78626
(Area Code) Telephone Number:	512-943-1550			
Charter Number:	NA			

If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.

Agent Name:				
Mailing Address:				
(City) (County)(State)(Zip Code):				
(Area Code) Telephone Number:				
(Area Code) FAX Number:				

Application Type:

☐	Permit	☐	Major Amendment	☐	Minor Amendment
☒	Registration	☐	Modification	☐	Temporary Authorization
		☐	w/Public Notice		
		☒	w/out Public Notice	☐	Notice of Deficiency Response

[1] The operator has the duty to submit an application if the facility is owned by one person and operated by another [30 TAC 305.43(b)]. The permit will specify the operator and the owner who is listed on this application [Section 361.087 Texas Health and Safety Code].

Facility Classification:

☐	Type I	☐	Type IV	☐	Type V	☒	Type IX
☐	Type I AE	☐	Type IV AE	☐	Type VI		

Activities covered by this application (check all that apply):

☐	Storage	☒	Processing	☐	Disposal

Waste management units covered by this application (check all that apply):

☐	Containers	☐	Tanks	☐	Surface Impoundments	☐	Landfills
☐	Incinerators	☐	Composting	☐	Type IV Demonstration Unit	☒	Type IX Energy/Material Recovery
☐	Other (Specify)			☐	Other (Specify)		
☐	Other (Specify)			☐	Other (Specify)		

Is this submittal part of a Consolidated Permit Processing request, in accordance with 30 TAC Chapter 33?

☐ Yes ☒ No

If yes, state the other TCEQ program authorizations requested.

NA

Provide a brief description of the portion of the facility covered by this application. For amendments, modifications, and temporary authorizations, provide a brief description of the exact changes to the permit or registration conditions and supporting documents referenced by the permit or registration. Also, provide an explanation of why the amendment, modification, or temporary authorization is requested.

Type IX Registration by Rule for a landfill gas beneficial use facility.

Does the application contain confidential Material? ☐ Yes ☒ No

If yes, cross-reference the confidential material *throughout the application* and submit as a separate document or binder conspicuously marked "CONFIDENTIAL."

Bilingual Notice Instructions

For certain permit applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, trigger a bilingual education program to apply to an entire school district should the requisite alternative language speaking student population exist. However, there may not exist any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as a part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program as a member of a triggered district.

If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of

the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

Bilingual Notice Application Form:

Bilingual notice confirmation for this application:

1. Is a bilingual program required by the Texas Education Code in the school district where the facility is located? ☐ YES ☐ NO

   (If NO, alternative language notice publication not required)

2. If YES to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility? ☐ YES ☐ NO

(IF YES to questions 1 and 2, alternative language publication is required; If NO to question 2, then consider the next question)

3. If YES to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location? ☐ YES ☐ NO

(If Yes to questions 1 and 3, alternative language publication is required; If NO to question 3, then consider the next question)

4. If YES to question 1, would either the elementary school or the middle school nearest to the facility be required to provide a bilingual education program but for the fact that it secured a waiver from this requirement, as available under 19 TAC §89.1205(g)? ☐ YES ☐ NO

(If Yes to questions 1 and 4, alternative language publication is required; If NO to question 4, alternative language notice publication not required)

If a bilingual education program(s) is provided by either the elementary school or the middle school nearest to the facility, which language(s) is required by the bilingual program?

Note: Applicants for new permits and major amendments must make a copy of the administratively complete application available at a public in the county where the facility is, or will be, located for review and copying by the public.

Public place where administratively complete permit application will be located.				
Public Place (e.g., public library, county court house, city hall, etc.):	N/A			
Mailing Address:				
(City) (County)(State)(Zip Code):				
(Area Code) Telephone Number:				

B. Facility Location

Except for Type I AE and Type IV AE landfill facilities, for permits, registrations, amendments, and modifications requiring public notice, provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.
N/A

Local Government Jurisdiction:	Williamson County
Within City Limits of:	N/A
Within Extraterritorial Jurisdiction of City of:	N/A
Is the proposed municipal or industrial solid waste disposal or processing facility located in an area in which the governing body of the municipality or county has prohibited the disposal or processing of municipal or industrial solid waste? (If YES, provide a copy of the ordinance or order):	
☐ YES ☒ NO	

Provide a description of the location of the facility with respect to known or easily identifiable landmarks.
1 mile north of the blue Jonah Water Supply Corp. water tower.

Detail the access routes from the nearest United States or state highway to the facility.
5 miles north of State Highway 79 on FM 1660.

Provide the latitudinal and longitudinal geographic coordinates of the facility.

Latitude	**N 30 degrees 36' 15"**
Longitude	**W 97 degrees 33' 12"**
Elevation (above msl)	724.157

Is the facility within the Coastal Management Program boundary?	☐ Yes ☒ No

Texas Department of Transportation District Location:

TXDOT District Name & Number:	Austin District No. 14			
District Engineer's Name:	Robert B. Daigh, P.E.			
Street or P. O. Box:	P.O. Drawer 15426			
(City) (County)(State)(Zip Code):	Austin	Travis	TX	78761
(Area Code) Telephone Number:	(512) 832-7000			
(Area Code) FAX Number:	(512) 478-8243			

The local governmental authority or agency responsible for road maintenance:

Contact Person's Name:	Greg Bergeron, County Road Administrator			
Street or P. O. Box:	3151 SE Inner Loop, Suite B			
(City) (County)(State)(Zip Code):	Georgetown	Williamson	TX	78626
(Area Code) Telephone Number:	(512) 943-3330			
(Area Code) FAX Number:	(512) 943-3335			

State Representative:

District Number:	52			
State Representative's Name:	Mike Krusee			
District Office Address:	P.O. Box 2910			
(City) (County)(State)(Zip Code):	Austin	Travis	TX	78768
(Area Code) Telephone Number:	(512) 463-0670			
(Area Code) FAX Number:	(512) 463-1469			

State Senator:

District Number:	5			
State Senator's Name:	Steve Ogden			
District Office Address:	309 W. Main Street, Suite 115			
(City) (County)(State)(Zip Code):	Round Rock	Williamson	TX	78664
(Area Code) Telephone Number:	(512) 828-5224			
(Area Code) FAX Number:	(512) 828-5229			

Council of Government (COG) Information:

COG Name:	Capital Area Council of Governments			
COG Representative's Name:	Kelly Freeman			
COG Representative's Title:	Solid Waste Program Coordinator			
Street or P. O. Box:	P. O. Box 17848			
(City) (County)(State)(Zip Code):	Austin	Travis	TX	78760
(Area Code) Telephone Number:	(512) 916-6000			
(Area Code) FAX Number:	(512) 916-6001			

River Basin Information:

River Authority:	Brazos River Authority			
Contact Person's Name:	Phil Ford, General Manager and CEO			
Watershed Sub-Basin Name:	Central Brazos River Basin			
Street or P. O. Box:	P. O. Box 7555			
(City) (County)(State)(Zip Code):	Waco	McLennan	TX	76714
(Area Code) Telephone Number:	(254) 761-3100			
(Area Code) FAX Number:	(254) 761-3207			

This site is located in the following District of the U.S. Army Corps of Engineers:			
☐ Albuquerque, NM	☒ Ft. Worth, TX	☐ Galveston, TX	☐ Tulsa, OK

C. Maps

General

For permits, registrations, and amendments only, submit a topographic map, ownership map, county highway map, or a map prepared by a registered professional engineer or a registered surveyor which shows the facility and each of its intake and discharge structures and any other structure or location regarding the regulated facility and associated activities. Maps must be of material suitable for a permanent record, and shall be on sheets 8-1/2 inches by 14 inches or folded to that size, and shall be on a scale of not less than one inch equals one mile. The map shall depict the approximate boundaries of the tract of land owned or to be used by the applicant and shall extend at least one mile beyond the tract boundaries sufficient to show the following:

each well, spring, and surface water body or other water in the state within the map area;

the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, etc;

the location of any waste disposal activities conducted on the tract not included in the application; and

the ownership of tracts of land adjacent to the facility and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity.

General location maps
For permits, registrations, and amendments only, submit at least one general location map at a scale of one-half inch equals one mile. This map shall be all or a portion of a county map prepared by Texas Department of Transportation (TxDOT). If TxDOT publishes more detailed maps of the proposed facility area, the more detailed maps shall also be included in Part I. Use the latest revision of all maps.

Land ownership map
Provide a map that locates the property owned by adjacent and potentially affected landowners. The maps should show all property ownership within 500 feet of the facility, on-site facility easement holders, and all mineral interest ownership under the facility.

Landowners list
Provide the adjacent and potentially affected landowners' list, keyed to the land ownership map with each property owner's name and mailing address. The list shall include all property owners within 500 feet of the facility, easement holders, and all mineral interest ownership under the facility. Provide the property, easement holders', and mineral interest owners' names and mailing addresses derived from the real property appraisal records as listed on the date that the application is filed. Provide the list in electronic form, as well.

D. Property owner information

For permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operator only, provide the following:

(1) the legal description of the facility;

(A) the abstract number as maintained by the Texas General Land Office for the surveyed tract of land;

(B) the legal description of the property and the county, book, and page number or other generally accepted identifying reference of the current ownership record;

(C) for property that is platted, the county, book, and page number or other generally accepted identifying reference of the final plat record that includes the acreage encompassed in the application and a copy of the final plat, in addition to a written legal description;

(D) a boundary metes and bounds description of the facility signed and sealed by a registered professional land surveyor;

(E) on-site easements at the facility, and

(F) drawings of the boundary metes and bounds description; and

(2) a property owner affidavit signed by the owner.

E. Legal authority

Provide verification of the legal status of the owner and operator, such as a one-page certificate of incorporation issued by the secretary of state. List all persons having over a 20% ownership in the proposed facility.

Indicate Ownership status of the facility:									
☐	Private	☐	Corporation	☐	Partnership	☐	Proprietorship	☐	Non-Profit Organization
☐	Public	☐	Federal	☐	Military	☐	State	☐	Regional
☒	County	☐	Municipal	☐	Other (Specify)				

Does the operator own the facility units and the facility property?	☐ Yes	☒ No

If "No," for permits, registrations, amendments, and modifications that changes the legal description, a change in owner, or a change in operators submit a copy of the lease for the use of or the option to buy the facility units or facility property, as appropriate, and identify:				
Owner Name:				
Street or P. O. Box:				
(City) (County)(State)(Zip Code):				
(Area Code) Telephone Number:				
(Area Code) FAX Number:				
Charter Number:				

F. Evidence of competency

For permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operators submit a list of all Texas solid waste sites that the owner and operator have owned or operated within the last ten years.				
Site Name	Site Type	Permit/Reg. No.	County	Dates of Operation

Submit a list of all solid waste sites in all states, territories, or countries in which the owner and operator have a direct financial interest.			
Site Name	Location	Dates of Operation	Regulatory Agency (Name & Address)

A licensed solid waste facility supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations will be employed before commencing facility operation.

Provide the names of the principals and supervisors of the owner's and operator's organization, together with previous affiliations with other organizations engaged in solid waste activities.		
Name	Previous Affiliation	Other Organization

For landfill permit applications only, evidence of competency to operate the facility shall also include landfilling and earthmoving experience if applicable, and other pertinent experience, or licenses as described in 30 TAC Chapter 30 possessed by key personnel. The number and size of each type of equipment to be dedicated to facility operation will be specified in greater detail on Part IV of the application within the site operating plan.

Landfilling/Earthmoving Equipment Types	Personnel Experience or Licenses
N/A	

For mobile liquid waste processing units, submit a list of all solid waste, liquid waste, or mobile waste units that the owner and operator have owned or operated within the past five years. Submit a list of any final enforcement orders, court judgments, consent decrees, and criminal convictions of this state and the federal government within the last five years relating to compliance with applicable legal requirements relating to the handling of solid or liquid waste under the jurisdiction of the commission or the United States Environmental Protection Agency. Applicable legal requirement means an environmental law, regulation, permit, order, consent decree, or other requirement.

Solid waste, liquid waste, or mobile waste units owned or operated within past 5 years	Texas and federal final enforcement orders, court judgments, consent decrees, and criminal convictions
N/A	

G. Appointments

Provide documentation that the person signing the application meets the requirements of 30 TAC §305.44, Signatories to Applications. If the authority has been delegated, provide a copy of the document issued by the governing body of the owner or operator authorizing the person that signed the application to act as agent for the owner or operator.

H. Application Fees

For a new permit, registration, amendment, modification, or temporary authorization, submit a $150 application fee.

For authorization to construct an enclosed structure over an old, closed municipal solid waste landfill in accordance with 30 TAC 330 Subchapter T, submit a $2,500 application fee.

If paying by check, send payment to:

Texas Commission on Environmental Quality
Financial Administration Division, MC 214
P. O. Box 13087
Austin, Texas 78711-3087

Payment maybe made online using TCEQ e-pay at www.tceq.state.tx.us/e-service/index.html	
E-pay confirmation number	

PROPERTY OWNER AFFIDAVIT

"I, Williamson County Judge Dan A. Gattis,
(property owner)
acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility. For a facility where waste will remain after closure, I acknowledge that I have a responsibility to file with the county deed records an affidavit to the public advising that the land will be used for a solid waste facility prior to the time that the facility actually begins operating as a municipal solid waste landfill facility, and to file a final recording upon completion of disposal operations and closure of the landfill units in accordance with Title 30 Texas Administrative Code §330.19, Deed Recordation. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life and post-closure care period, if required, after closure for the purpose of inspection and maintenance."

(Owner signature) 6-13-08 (Date)

Signature Page

I, Steve Jacobs (Operator), Landfill operations, Manager (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Steve Jacobs Date: 4-21-2008

TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, _____ (Print or Type Operator Name), hereby designate _____ (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

_____
Printed or Typed Name of Operator or Principal Executive Officer

_____
Signature

SUBSCRIBED AND SWORN to before me by the said Steve Jacobs

On this 21st day of April, 2008

My commission expires on the 9th day of March, 2012

EDIE BUNKER NOTARY PUBLIC STATE OF TEXAS EXPIRES 3-9-2012

Edie Bunker
Notary Public in and for

Travis County, Texas

(Note: Application must bear signature & Seal of Notary Public)

RJR

April 17, 2008

MC-214
Ms. Jacqueline Mgebroff
Revenue Section
Office of Administrative Services
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: Type IX Registration by Rule Application Fee Submittal
Landfill Gas Beneficial Use Facility – Asphalt Shingle Processing Unit
Williamson County Recycling and Disposal Facility – Permit No. MSW 1405A
Williamson County, Texas

Dear Ms. Mgebroff:

On behalf of Williamson County, RJR Engineering, Ltd., L.L.P. (RJR) is pleased to submit the attached $150 application fee for a Type IX Registration by Rule request for an asphalt shingle processing unit as a landfill gas beneficial use facility for the Williamson County Recycling and Disposal Facility, Permit No. MSW 1405A, Williamson County, Texas.

If you have any questions regarding this information, please feel free to contact me at (281) 397-6747.

Sincerely,
RJR Engineering, Ltd., L.L.P.

J. Roy Murray, P.E.
Vice President

Cc: Honorable Judge Dan A. Gattis, Williamson County
Steve Jacobs, WMTX
Tim Champagne, WMTX

WILLIAMSON COUNTY RECYCLING & DISPOSAL FACILITY

TYPE IX REGISTRATION BY RULE APPLICATION
WILLIAMSON COUNTY, TEXAS

LANDFILL GAS BENEFICIAL USE FACILITY
ASPHALT SHINGLE PROCESSING UNIT

APPLICANT:

WILLIAMSON COUNTY
301 S.E. Inner Loop, Suite 109
Georgetown, Texas 78626

PREPARED BY:

RJR ENGINEERING, Ltd., L.L.P.
12651 Briar Forest Drive, Suite 205
Houston, Texas 77077

April 2008

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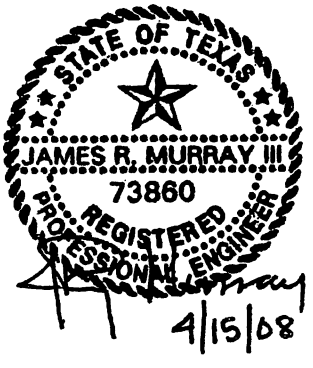
APPENDICES

FIGURES



1 Introduction

Williamson County currently owns the Williamson County Recycling & Disposal Facility (WCRDF) and Waste Management of Texas, Inc. (WMTX) operates the facility, located in Williamson County, Texas. Williamson County is proposing to develop a landfill gas (LFG) beneficial use facility (LFGBUF) at WCRDF to utilize landfill gas for the operation of an Asphalt Shingle Processing Unit (ASPU).

Under this Registration by Rule Application, Williamson County will utilize the facility's existing and proposed expansions of the gas collection system to recover methane gas generated by the landfill and use it for beneficial use (Asphalt Shingle Processing Unit). This document serves as Williamson County's submittal for a Type IX Registration by Rule Application in accordance with the Texas Commission on Environmental Quality (TCEQ) requirements under Tile 30 of the Texas Administrative Code (30 TAC) §330.9(k).

Williamson County is proposing this project to provide a beneficial use of landfill gas to operate an Asphalt Shingle Processing Unit in a relatively cost-effective way. Other environmental benefits, according to the Environmental Protection Agency (EPA) are as follows:

- LFGBUF ASPU Projects help destroy methane, a potent heat-trapping gas.
- LFGBUF ASPU Projects help offset the use of non-renewable resources such as coal, natural gas and oil, which reduces power plant emissions.
- LFGBUF ASPU Projects help reduce local air pollution by reducing volatile organic compound emissions.

Williamson County's ASPU will help operate the ASPU combusting methane in specifically designed heaters and processing units. Methane is a clean burning fuel that is generated by a landfill as the organic material in it decomposes: a process that continues throughout the landfill's life and will continue after closure. Landfill gas consisting of approximately 50% methane, 50% carbon dioxide, water vapor, and trace constituents is collected by vertical wells with the refuse to access the gas and an underground piping system and blower to collect the gas and distribute it to the power station.

2 Background Information

2.1 Landfill Background

WCRDF is located northeast of the City of Hutto in Williamson County, Texas. A General Location Map is included as Figure 1. A Site Plan depicting the Landfill Gas Beneficial Use Facility (LFGBUF) Relative to the landfill is included as Figure 2 depicting the landfill permit boundary and the proposed location of the LFGBUF ASPU. The acreage of the WCRDF MSW Permit No. 1405 is 202 acres.

An active landfill gas collection system has been installed in filled areas throughout a portion of the site. As sections fill to capacity, additional portions of the gas collection system are installed. Currently the collected methane is conveyed to a blower/flare system for destruction.

Under this Registration by Rule Application, Williamson County will utilize the landfill's existing and future expansions of the gas collection system to recover the methane generated from the landfill for use in the LFGBUF ASPU.

2.2 Landfill Gas Collection and Control System Configuration

A gas collection system has been installed in portions of the pre-Subtitle D and Subtitle D sections of filled landfill. The system consists of four basic components; vertically drilled gas extraction wells, PVC and/or HDPE pipe collection/transportation network, condensate management components and the blower/flare station. The blower/flare facility is located approximately 200 feet south of the maintenance shop and is currently operational.

As the landfill develops and expands, the gas collection system will also. The current direction of development is to the north.

2.3 Proposed Landfill Gas Beneficial Use Facility

The proposed location of the LFGBUF ASPU is proposed approximately 1,200 feet from the existing blower/flare. This area is not currently landfilled but is designated for future development as landfill area. The ASPU will be closed and either relocated to a future non-landfilled location (with TCEQ approval) or abandoned altogether.

Williamson County plans to utilize extracted methane from the landfill to fuel the heaters and processing units for the operation of an asphalt shingle processing unit. Any excess methane not used in the operation of the ASPU will be redirected to the blower/flare system.

3 Required §330.9(k) Registration Documentation

3.1 §330.9(k)(1)

In accordance with 30 TAC §330.9(k)(1) this Registration by Rule Application is being submitted 60 days prior to commencing operations.

3.1.1 §330.9(k)(1)(A) – Plan Drawings of the Facility

30 TAC §330.9(k)(1)(A)(i) requires a site plan depicting the facility boundaries (permit boundary and/or boundaries and dimensions of tract of land or closed MSW landfill units on which the gas recovery system is to be developed).

30 TAC §330.9(k)(1)(A)(ii) requires drawings showing landfill gas treatment, gas compression, electrical power generation equipment, and any other beneficial gas-use equipment, indicating limits of waste placement and additional easements required.

The following is a list of drawings provided with this Registration by Rule Application to satisfy the requirements of the above-mentioned sections.

Figure 1	General Location Map
Figure 2	Site Plan
Figure 3	Facility Site Plan
Figure 4	General Arrangement Plan
Figure 5	Processing System
Figure 6	Processing System

The Type IX facility will not require any easements. All existing easements are shown on Figure 2, Site Plan.

3.1.2 §330.9(k)(1)(B) – Fire Control Facilities

The proposed LFGBUF will not be enclosed within a structure.

3.1.3 §330.9(k)(1)(C) – Condensate Management

Condensate collected in the current LFG system or the proposed LFGBUF will be managed on site, recirculated in approved Subtitle D cells, transferred to storage facilities, or transferred to an off-site disposal area.

Recirculation will only take place while the landfill facility is operational. Through the post-closure period, condensate will be managed on site, transferred to storage facilities, or transferred to an off-site disposal area.

3.1.4 §330.9(k)(1)(D and E) – Estimates of Gas Production

Under current conditions, the estimated peak landfill gas generation rate is approximately 1,900 standard cubic feet per minute (scfm) or 2.7 million standard cubic feet per day (scfd). The estimated peak capture/extraction rate is 1,500 scfm or 2.2 scfd. The design daily gas production is estimated as 95 scfm or 0.137 million scfd.

3.1.5 §330.9(k)(1)(F) – Description of Process Units

The WCRDF LFGBUF ASPU operates by combusting LFG in specifically designed heating and processing units. Methane is a clean burning fuel that is generated by a landfill as the organic material in it decomposes: a process that continues throughout the life of the landfill and will continue after closure. LFG is collected by vertical wells within the refuse to access the gas and an underground piping system and blower to collect the gas and direct it to the power station.

The proposed LFGBUF ASPU will be comprised of heaters and processing units custom designed to accept LFG as a fuel source. The landfill's existing flare station will be retained. LFG that is recovered but not combusted in the LFGBUF ASPU facility will be directed to the adjacent flare station.

The LFGBUF ASPU consists of a hopper, feed screw conveyor, agitated and jacketed processor, thermal fluid heater, discharge screw conveyor, hammermill, vapor condenser, condensate receiver and pump, dual carbon bed canisters, blower and various instrumentation. The small quantities of vapor (some light oils and water) that are evaporated in the processor are condensed in the vapor condenser and the condensate is collected in the receiver and pumped to 55-gallon drums. Any non-condensables passing through the condenser go to the carbon bed canisters. The carbon will absorb any of the hydrocarbon vapors. When the hydrocarbon analyzer detects that one carbon bed is saturated, then the vapor flow is switched to the other canister an the first canister is replaced.

LFG enters the LFGBUF ASPU under vacuum through the inlet pipe. The LFG used for combustion in the thermal fluid heater is compressed and treated to supply clean and dehumidified landfill gas by reducing the temperature and removing the majority of the contaminants as well as a large part of the condensate. Condensate generated within the LFGBUF will be collected and pumped into a condensate force main to the leachate evaporation pond or used in recirculation. The LFG is then compressed, cooled, filtered and reheated before routing to the engine-generators.

The heaters and processing units combust the LFG as fuel to produce heat.

The LFGBUF ASPU components will operate during regular landfill operating hours, except during planned and unplanned outages. The entire facility is designed to operate by facility personnel including all minor adjustments, monitoring, and routine surveillance being performed by facility personnel. The facility will not be operated outside the normal working hours. When the heaters and processing units are off-line, LFG will be diverted to the flare facility.

3.1.6 §330.9(k)(1)(G and H) – Closure Cost Estimate and Financial Assurance

WCRDF is subject to federal, state and local requirements for the regulatory control of LFG migration, emissions or odors. The LFGBUF ASPU project will be terminated prior to the landfill closure, the landfill gas collection system needs to remain operational through landfill closure and possibly into post-closure period. The LFG will be directed to the existing flare and the connection to the LFGBUF ASPU will be terminated.

A Closure Plan, Cost Estimate and Financial Assurance information for the proposed Type IX facility can be found in Attachment 1.

3.2 §330.9(k)(2) – Air Emission Authorizations

The owner and/or operator of the facility shall acquire all authorization regarding air emissions. In accordance with the TCEQ requirements of 30 TAC §116, before installing any new or modifying any

existing emission source that has the potential to increase unit emissions, the proposed change must be approved by the TCEQ Air Permits Section. As such, Williamson County will submit to the TCEQ Air Permits Section an application for a Permit by Rule for "facilities", 30 TAC §106.261.

3.2.1 §330.9(k)(2)(A) – Subchapter E (Operational Standards for MSW Storage and Processing Units)

During the operation of the WCRDF LFGBUF ASPU, Williamson County agrees to comply with all the applicable requirements of Subchapter E.

3.2.2 §330.9(k)(2)(B) Section 330.459 and 330.461 (Closure Requirements for MSW Storage and Processing Units and Certification of Final Facility Closure)

During the operation of the WCRDF LFGBUF ASPU, Williamson County agrees to comply with all of the applicable requirements of Sections 330.459 and 330.461.

3.2.3 §330.9(k)(2)(C) Section 330.505

During the operation of the WCRDF LFGBUF ASPU, Williamson County agrees to comply with all of the applicable requirements of Sections 330.505 pertaining to closure cost estimates and financial assurance.

Closure Plan, Cost Estimate, and Financial Assurance information for the proposed Type IX facility can be found in Attachment 1.

WILLIAMSON COUNTY RECYCLING & DISPOSAL FACILITY

TYPE IX REGISTRATION BY RULE APPLICATION
WILLIAMSON COUNTY, TEXAS

LANDFILL GAS BENEFICIAL USE FACILITY
ASPHALT SHINGLE PROCESSING UNIT

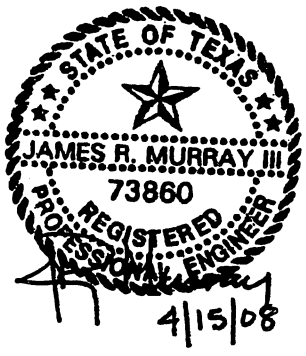
APPENDIX 1
CLOSURE PLAN, COST ESTIMATE, AND FINANCIAL ASSURANCE

APPLICANT:

WILLIAMSON COUNTY
301 S.E. Inner Loop, Suite 109
Georgetown, Texas 78626

PREPARED BY:

RJR ENGINEERING, Ltd., L.L.P.
12651 Briar Forest Drive, Suite 205
Houston, Texas 77077



April 2008

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CLOSURE PLAN, COST ESTIMATE, AND FINANCIAL ASSURANCE

1 PURPOSE OF PLAN

This closure plan, cost estimate and description of financial assurance has been prepared for the Landfill Gas Beneficial Use Facility Asphalt Shingle Processing Facility (LFGBUF ASPU) to be constructed at the Williamson County Recycling & Disposal Facility (WCRDF) located in Williamson County, Texas. This document has been prepared in accordance with 30 TAC 330.4 (n) which requires that landfill gas beneficial reuse projects in the State of Texas register with the Texas Commission on Environmental Quality (TCEQ) and with 30 TAC 330.70 (e)(6)(F) which requires that closure of the project be described and financial assurance for closure be provided.

This closure plan provides for the closure of the above referenced LFGBUF ASPU facility in a manner that will return the location of the facility to a condition very similar to the location's condition prior to construction.

The activities described in this closure plan allow for removal of above-ground LFGBUF ASPU equipment and structures and redirection of the landfill gas to the existing flare station which will remain on site. Costs within this plan were developed based on the assumption that upon closure of the LFGBUF ASPU at any time during its operational life, wastes such as conveyance pipe, fittings, paper, and other generally inert material acceptable to the landfill will be disposed of at a nearby appropriately permitted landfill.

1.1 Affected Unit Description

Following is a description of the units at the LFGBUF ASPU that will be subject to closure:

Landfill Gas Redirection: The landfill gas pipelines leading to the LFGBUF ASPU will be closed off so that all collected landfill gas is directed to the existing flare station. The flare station will be kept in operational condition and function as a redundant/back up control for the life of the LFGBUF ASPU and continue after the LFGBUF ASPU has been removed. Aboveground and subsurface piping and associated structures specific to the LFGBUF ASPU will be removed.

Asphalt Shingle Processing Unit Equipment Demobilization: All asphalt shingle processing unit equipment still resident at the LFGBUF ASPU at the time of closure will be removed from the site.

Support Structure Demobilization: Concrete pads will be removed or broken up and disposed, as appropriate. Any remaining equipment and spare parts will be relocated off site. Any remaining shingles, processed shingles and other materials will be disposed of at a qualified facility. Auxiliary equipment will be removed and relocated or disposed.

Surface Restoration: The surface of the LFGBUF ASPU area will be regraded after demolition activities. After regrading, the surface will be prepared to sustain vegetation and will be revegetated.

2 CLOSURE PLAN

The closure activities to be performed for the LFGBUF ASPU will consist primarily of removal of all equipment and support structures associated with the LFGBUF ASPU. Should WCRDF abandon this operation, the existing equipment would be placed in temporary storage for eventual shipment to other locations, sold for salvage value, or disposed of as waste. WCRDF has prepared this closure plan cost estimate assuming that all costs for closure will be born by TCEQ.

Facility closure includes the following:

2.1 Landfill Gas Redirection

Mechanisms will be in place to redirect the flow of landfill gas from the LFGBUF ASPU to the landfill's existing flare throughout the LFGBUF ASPU's operating life so that the flare can act as a backup combustion source. To begin closure of the LFGBUF ASPU, the flow of landfill gas will be redirected to the flare permanently in that the valves controlling landfill gas direction will be permanently sealed off. All piping and associated equipment will be removed, dismantled and relocated to a disposal area at a nearby appropriately permitted landfill.

2.2 Equipment Demobilization

After final LFGBUF ASPU shutdown, the equipment will be dismantled and loaded onto trucks and hauled off-site to either be stored for future use, utilized at another site, recycled for scrap, or disposed of at a properly registered disposal facility.

2.3 Support and Security Structure Demobilization

During operations, the LFGBUF ASPU will maintain a small inventory of asphalt, lubricating oil, spare parts, tools, cleaning supplies, fire control equipment, personal protective equipment, etc. Upon closure, any used asphalt and/or lubricating oil in stock will be containerized and shipped to a licensed facility for disposal or recycling. New asphalt and/or lubricating oil will be sold or otherwise distributed for reuse. Equipment and supplies will be sold or otherwise distributed for reuse or will be relocated to a disposal area within the landfill, as appropriate. Trailers used for storage will be removed and reused if possible, sold for scrap or dismantled and disposed of at a nearby appropriately permitted landfill. For the purposes of this closure cost estimate, it is assumed that all material will require disposal and will have no salvage value.

After equipment, trailers and supplies demobilization, the concrete foundations for the equipment will be demolished, loaded into dump trucks and relocated to a disposal area within the landfill. Soils will be inspected for evidence of spills or leaks of oil or asphalt. Contaminated soils will be tested and disposed of in accordance with TCEQ requirements.

2.4 Surface Restoration

The area will be graded to match surrounding topography after demolition activities are complete. After regrading, the surface will be prepared to sustain vegetation by restoring topsoil to those areas devoid of topsoil and allowing for drainage. After preparation, the area will be revegetated by seeding with native grasses to blend in with the surrounding area.

3 CLOSURE PLAN AMENDMENT

If necessary during the life of the LFGBUF ASPU, the LFGBUF ASPU will submit a written notification of or request for a permit modification to authorize a change in the approved closure plan. The written notification or request will include a copy of the amended closure plan for review. The LFGBUF ASPU will pursue a change in the approved closure plan whenever the LFGBUF ASPU anticipates changes in the operating plans or size or capacity of the LFGBUF ASPU that affects the closure plan.

4 CLOSURE COST ESTIMATE

The following section is a preliminary written estimate, in current dollars, of the anticipated cost of closing the LFGBUF ASPU. The closure cost estimate was derived using the following general standards.

- The closure cost estimate equals the cost of final closure at the point in that unit's active life when the extent and manner of its operation would make closure the most expensive;
- The closure cost estimate is based on the costs to the TCEQ of hiring a third party to perform all closure activities at the LFGBUF ASPU;
- The closure cost estimate will not allow credit for the salvage value of any equipment or residuals.

During the active life of the LFGBUF ASPU, the LFGBUF ASPU will adjust the closure cost estimates for inflation within 60 days before the anniversary date of the financial assurance mechanism used to secure closure costs. This adjustment will be made by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department if Commerce in its "Survey of Current Business". In addition, the LFGBUF ASPU will revise the closure cost estimate within 30 days after approval of a closure plan change if that change effects the closure cost of the LFGBUF ASPU. During the active life of the LFGBUF ASPU, the LFGBUF ASPU will maintain on site a copy of its current closure cost estimate.

4.1 Landfill Gas Redirection

$5,000.00 is the current cost estimate for beginning LFGBUF ASPU closure activities by redirecting landfill gas from the LFGBUF ASPU to the landfill's existing flare. This cost includes labor, equipment and disposal.

4.2 Power Generation and Electrical Export Equipment Demobilization

$10,000.00 is the current cost estimate for demobilization of the ASPU. This cost includes labor, equipment, transportation, disposal and administration.

4.3 Equipment Removal

$2,000.00 is the estimate for removal of equipment from the LFGBUF ASPU. This cost includes labor and equipment.

4.4 Equipment Disposal Cost

$10,000.00 is the estimate for disposing of equipment after removal or demolition. This cost includes labor, equipment and disposal.

4.5 Support Structure Demobilization

$10,000.00 is the estimate for continuing LFGBUF ASPU closure activities after removal of the ASPU equipment by removal and relocation or demolition and disposal of auxiliary systems, supplies, equipment and concrete slabs. This cost includes labor, equipment and disposal.

4.6 Surface Restoration

$5,000.00 is the estimate for completing LFGBUF ASPU closure activities by regarding and restoring vegetation to the area. This cost includes labor, equipment and materials.

4.7 Administration Costs for TCEQ

Based on the assumption that TCEQ will be responsible for administering the closure of the LFGBUF ASPU from initiation through issuance of a certification of abandonment. $10,000.00 has been added to the closure cost estimate for compensation to TCEQ.

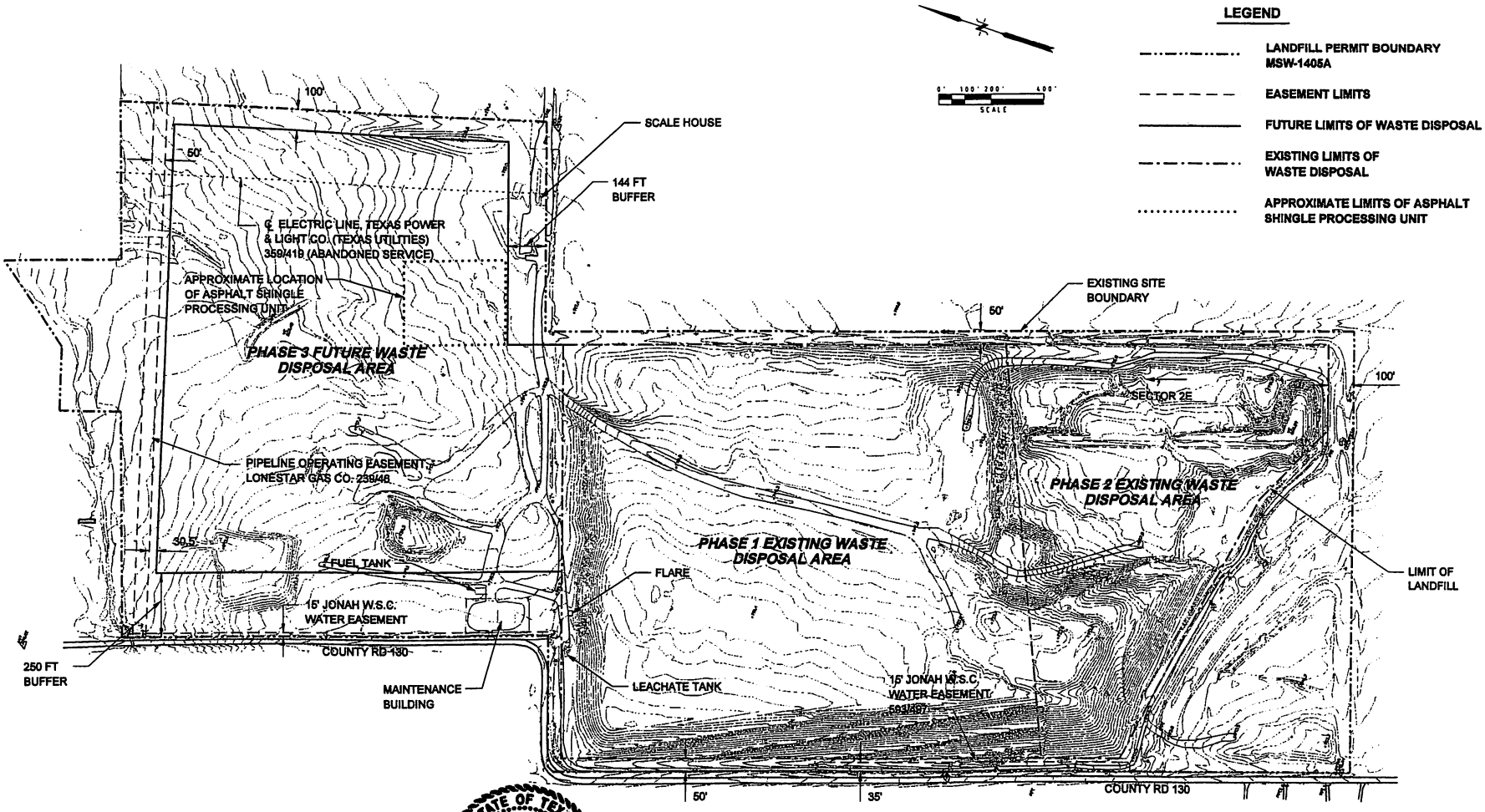
4.8 Summary of Facility Closure Costs

Following is a summary of the LFGBUF ASPU closure costs:

Landfill Gas Redirection	$5,000
Equipment Demobilization	$10,000
Equipment Removal	$2,000
Equipment Disposal Cost	$10,000
Support Structure Demobilization	$5,000
Surface Restoration	$5,000
Administration Costs for TCEQ	$5,000
Subtotal	$42,000
10% Contingency	$4,200
Total Closure Cost Estimate	$46,200

5 FINANCIAL ASSURANCE

WCRDF has elected to provide financial assurance for the closure costs of the LFGBUF ASPU via a surety bond guaranteeing payment. Documentation supporting this surety bond will be submitted to TCEQ no later than 60 days before LFGBUF ASPU start-up.



NOTE:

PHASE 1 AND PHASE 2 CURRENTLY CONTAIN WASTE. ASPHALT SHINGLE PROCESSING UNIT WILL EITHER BE RELOCATED OR CLOSED PRIOR TO CONDUCTING WASTE DISPOSAL OPERATIONS AT ITS CURRENT LOCATION. TCEQ APPROVAL WILL BE OBTAINED PRIOR TO ANY RELOCATION.

STATE OF TEXAS
JAMES R. MURRAY III
73860
REGISTERED PROFESSIONAL ENGINEER
4/15/08

REV.	DESCRIPTION	BY	APP	DATE

RJR ENGINEERING

April 2008
Project: 11504
File: siteplan.dgn

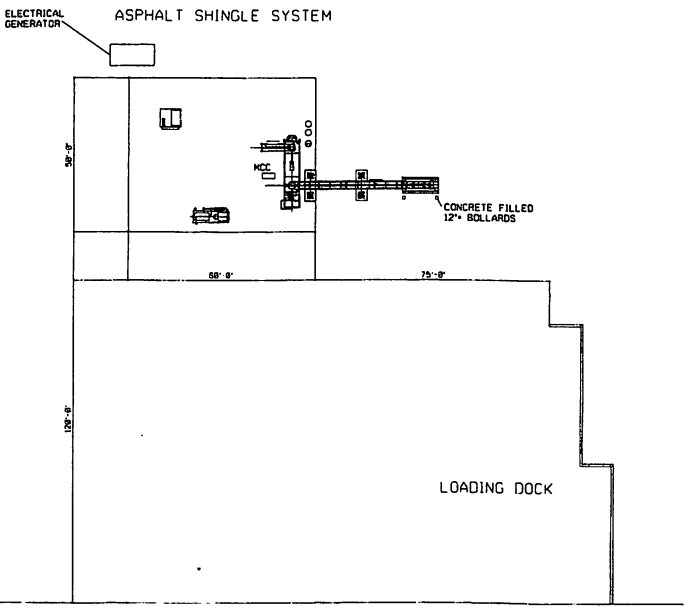
WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

SITE PLAN

FIGURE 2

PLANT NORTH

TRUE NORTH



NOTES:

1. SEE DRAWINGS, 0750-C-101 AND 0801-C-101 FOR DETAILS ON CONCRETE CONSTRUCTION.
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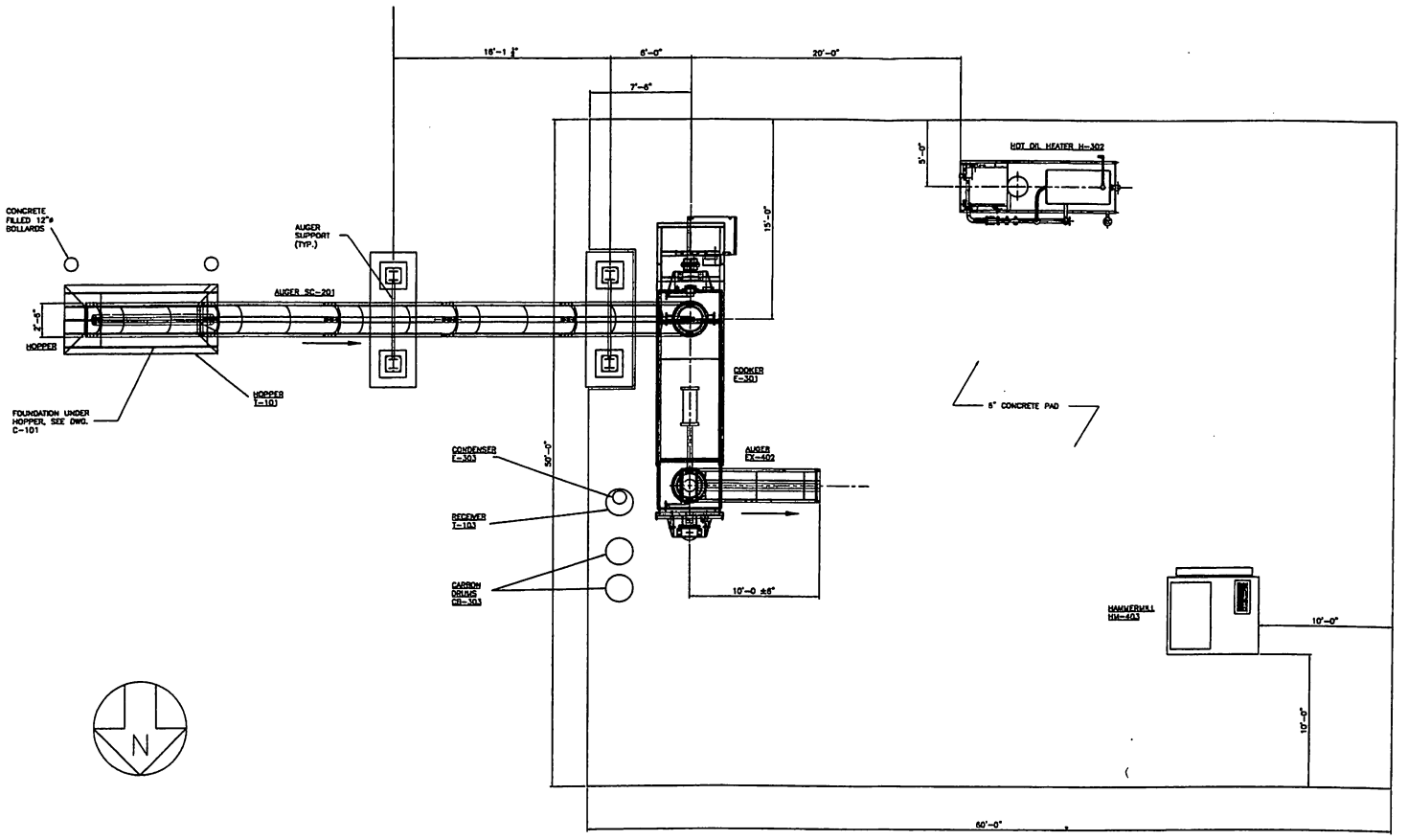
WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT
SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

FACILITY SITE PLAN

FIGURE 3



GENERAL ARRANGEMENT PLAN
SCALE: 1/4"=1'-0"

T/CONC FTG AS NOTED
0 2' 4' 6' 8' 10' 12'

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REV.	DESCRIPTION	BY	APP	DATE

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WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT
SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

GENERAL ARRANGEMENT PLAN FIGURE 4

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T-101
HOPPER
C.S. CONSTRUCTION
3 CU. YD. CAPACITY

SC-201
SCREW CONVEYOR
10 TON/HOUR CAPACITY
VFD 60 HP DRIVE

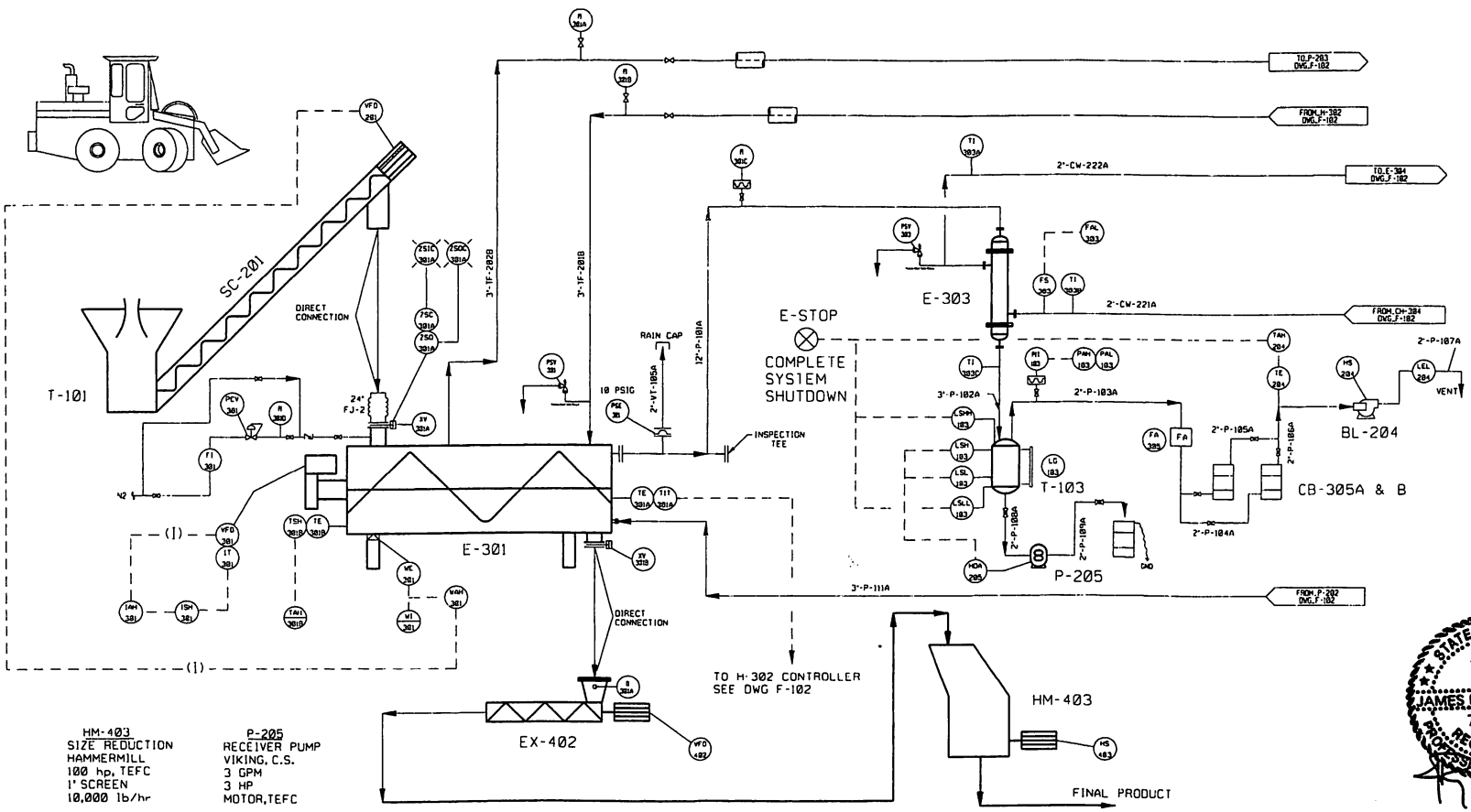
E-301
JACKETED AGITATED PROCESSOR
C.S. CONSTRUCTION
75 hp MOTOR
JACKET ASME CODE 60PSIG @ 650F
INTERNAL-15 PSIG@ 650•F

EX-402
SIZING AUGER
75 hp, VFD
C.S. CONSTR
10,000 lb/hr

E-303
CONDENSER
180 sq/ft
304 S/S TUBES
150 PSIG@ 350•F

T-103
RECEIVER
50 GAL
C.S. CONSTR
14.5 PSIG/FV

BL-204
BLOWER
CS CONSTRUCTION
1 HP, TEFC MOTOR
50 CFM @5" S.P.



CB-303A & B
ACTIVATED CARBON BED
55 GAL DRUMS

HM-403
SIZE REDUCTION HAMMERMILL
100 hp, TEFC
1" SCREEN
10,000 lb/hr

P-205
RECEIVER PUMP
VIKING, C.S.
3 GPM
3 HP
MOTOR, TEFC

STATE OF TEXAS
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NOTES:

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Project: 11504
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WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT
SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

PROCESSING SYSTEM FIGURE 5

T-104
10,000 GAL JKTD TANK
C.S. CONSTRUCTION

P-202
LOADING PUMP
VIKING, C.S.
100 GPM
5 HP
MOTOR, TEFC

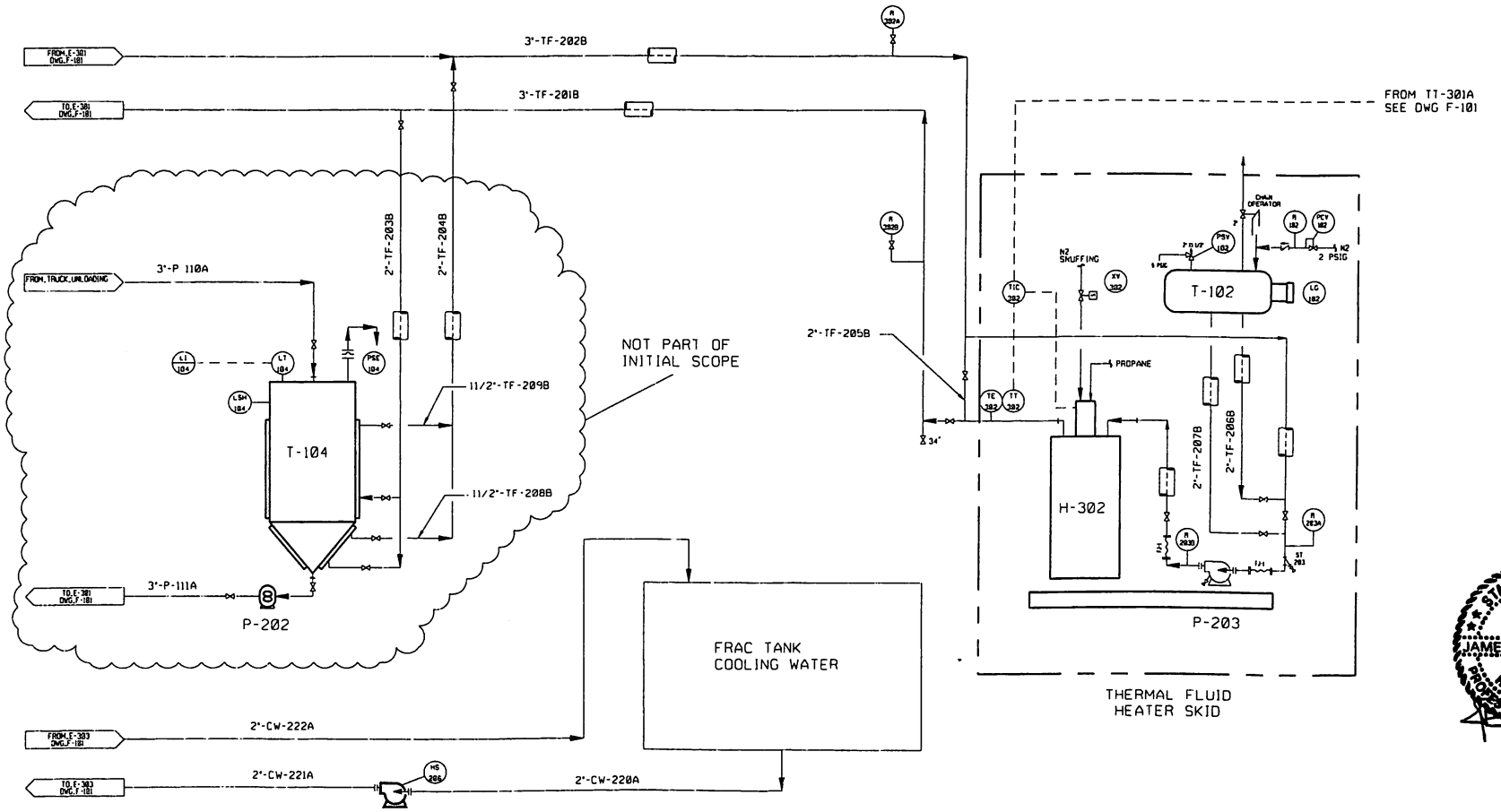
P-206
COOLING WATER PUMP
GOULD, D.I. 100 GPM
3 HP MOTOR, TEFC

CH-304
PACKAGED CHILLER
10 TONS CAPACITY
GLYCOL COOLANT

H-302
PROPANE FIRED HEATER
1,200,000 B/hr
PUMP + EXPANSION TANK INCLUDED

P-203
HEATER SUPPLY PUMP
150 GPM @ 55'
C.S. CONSTR.
SINGLE MECH. SEAL

T-102
EXPANSION TANK
C.S. CONSTR.



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NOTES:

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April 2008
Project: 11504
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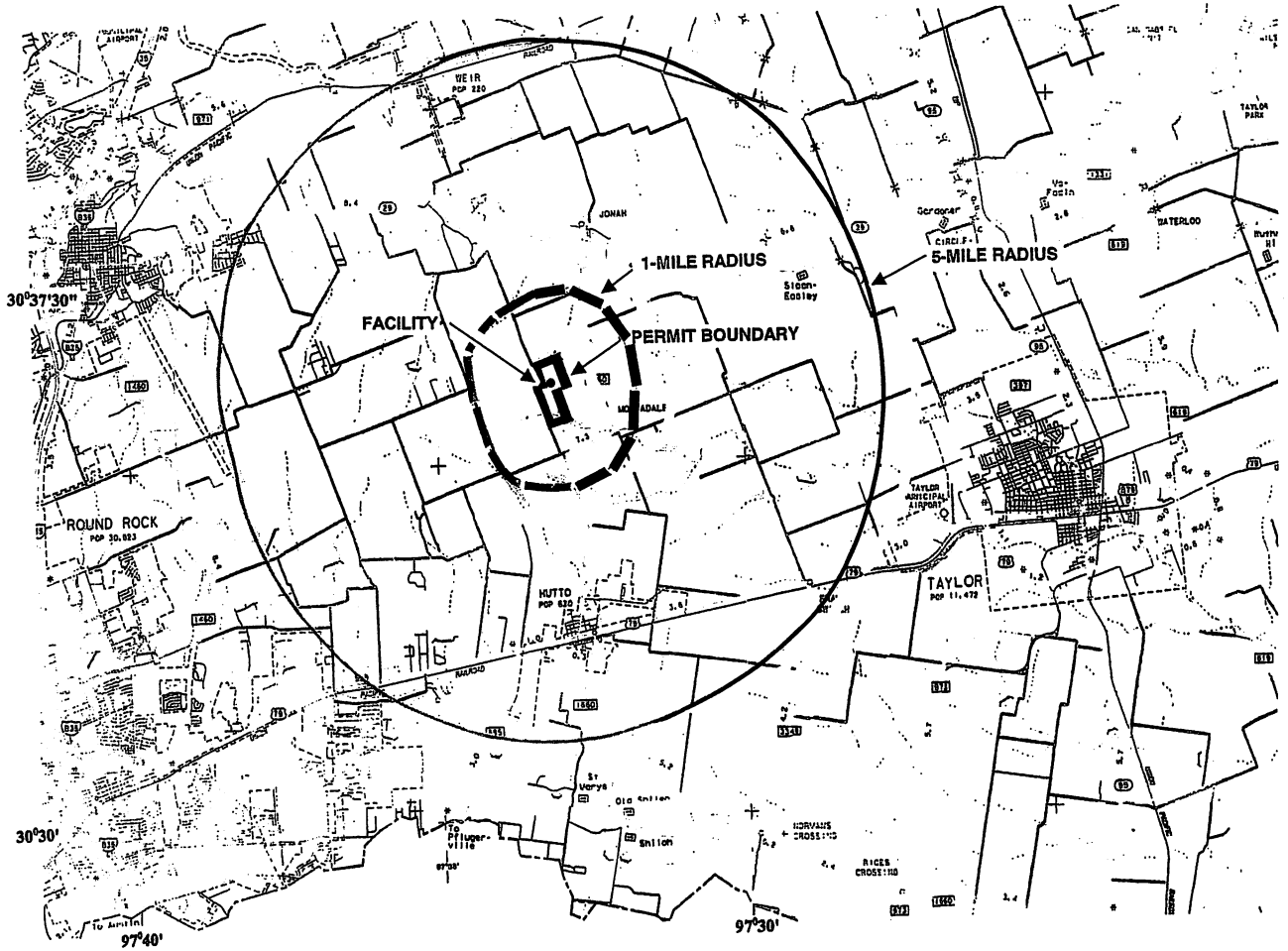
WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT
SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

PROCESSING SYSTEM

FIGURE 6



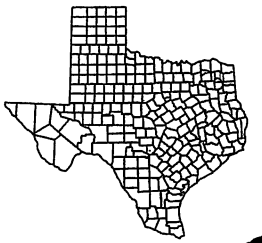
SCALE IN MILES

LEGEND

- PERMIT BOUNDARY
- 1-MILE RADIUS FROM PERMIT BOUNDARY
- 5-MILE RADIUS FROM PERMIT BOUNDARY
- LANDFILL GAS BENEFICIAL USE FACILITY
  ASPHALT SHINGLE PROCESSING UNIT

NATIONAL OR STATE BOUNDARY
COUNTY BOUNDARY
LIMIT OF ENLARGED DETAIL
CITY LIMIT
RAILROAD
STATE-OTHER
DIVIDED ROAD
PAVED ROAD
ALL WEATHER ROAD
EARTH ROAD
NOT COUNTY MAINTAINED ROAD
ROAD IN CITY
DIVIDED ROADWAY WITH FRONTAGE ROADS
4.3 9.0* MILEAGE BETWEEN POINTS
20 INTERSTATE HIGHWAY
290 U S NUMBERED HIGHWAY
78 STATE HIGHWAY
42 STATE HIGHWAY-LOOP OR SPUR
P21 STATE HIGHWAY PARK ROAD
144 FARM OR RANCH TO MARKET ROAD
R15 RECREATIONAL ROAD
B78 D B20 C 999 F BUSINESS ROUTES

COUNTY SEAT
TOWN SYMBOLS
BRIDGE OR CROSSING SEPARATION OVER 20'
LOW WATER CROSSING
INTERMITTENT STREAM
FLOWING STREAM
SHIP OR BARGE CHANNEL
LAKE WITH DAM
AREA SUBJECT TO INUNDATION
INTERMITTENT LAKE
1218' PROMINENT ELEVATION ESCARPMENT OR BLUFF
AIRPORT WITH FACILITIES
MILITARY AIRBASE
HISTORIC SITE
TXDOT CO LINE MARKER
U S CUSTOMS PORT OF ENTRY
TRAVEL INFORMATION CENTER
CEMETERY
TXDOT DISTRICT OFFICE
TXDOT WAREHOUSE
COUNTRY CLUB / GOLF COURSE



KEY TO COUNTIES

STATE OF TEXAS
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REGISTERED PROFESSIONAL ENGINEER
4/15/08

REV.	DESCRIPTION	BY	APP	DATE

BASE MAP: TXDOT 2000 GENERAL HIGHWAY MAP
WILLIAMSON COUNTY, TEXAS

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Project: 10121
File: flgl.dgn

WILLIAMSON COUNTY RECYCLING AND DISPOSAL FACILTY
TYPE IX REGISTRATION BY RULE
LANDFILL GAS BENEFICIAL USE FACILTY-ASPHALT
SHINGLE PROCESSING UNIT
NEAR HUTTO, WILLIAMSON COUNTY, TEXAS.

GENERAL LOCATION MAP FIGURE 1

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