

PART I

SITE AND APPLICANT INFORMATION

Temple Recycling & Disposal Facility

Temple, Bell County, Texas

TCEQ Permit MSW-692B

Owner/Site Operator/Permittee:



City of Temple
201 N. Main
Temple, Texas 76501

Operator:



Waste Management of Texas
9708 Giles Lane
Austin, Texas 78781

Submitted By:

Golder Associates Inc.
500 Century Plaza Drive, Suite 190
Houston, TX 77073 USA
Professional Engineering Firm Registration Number F-2578



GOLDER ASSOCIATES INC.
Professional Engineering Firm
Registration Number F-2578

INTENDED FOR PERMITTING
PURPOSES ONLY

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1.0 PERMIT HISTORY

The Temple Recycling and Disposal Facility is an active, 269-acre Type I municipal solid waste (MSW) facility owned by the City of Temple, Texas (City) and operated by Waste Management of Texas, Inc. (WMTX) under Permit No. MSW-692A.

The Temple Recycling and Disposal Facility entrance is located at 706 Landfill Road, approximately 0.25 miles east of the intersection of Loop 363 and Little Flock Road in Temple, Bell County, Texas 76501.

This permit amendment application has been prepared consistent with 30 Texas Administrative Code (30 TAC) Chapter 330 Municipal Solid Waste Regulations adopted by the Texas Commission on Environmental Quality (TCEQ).

Part I of this permit amendment application contains information about the site and applicant, as required by 30 TAC §281.5, 305.45, and 330.59. Part II of the permit amendment application describes the existing conditions and character of the facility and surrounding area, as required by §330.61. Part III of the permit amendment application presents engineering information, detailed investigative reports, the schematic designs of the facility, and the required plans, as required by §330.63. Part IV of the permit amendment application contains the Site Operating Plan, which includes specific information regarding the daily operations of the site, as required by 30 TAC §330.65.

1.1 Permit History

The original MSW facility permit for the site, Permit No. MSW-692, was issued on September 24, 1979. Permit No. MSW-692A, expanding the permitted acreage from approximately 215 to 269 acres, was issued on April 7, 2001.

WMTX received a contract to lease and operate the facility and commenced operation on August 31, 1993.

Consistent with 30 TAC §305.45(a)(7), the permits and approvals received for the facility are listed below.

Table I-1 Permits, Registrations, or Other Authorizations

Program	ID Type	ID Number
Air Emissions Inventory/Air New Source/Air Operating Permits	Account Number	BF0089S
Air New Source Permits	AFS Number	4802700671
Air New Source Permits	Registration	92582
Air Operating Permits	Permit	1487
Petroleum Storage Tank Registration	Registration	65916
Pollutant Discharge Elimination System Storm Water	General Permit	TXR05AK37

1.2 Supplementary Technical Report

The Temple Recycling and Disposal Facility is an active 269-acre Type I MSW disposal facility (Permit No. MSW 692A). The area within the permit boundary consists of a total of 108 acres of permitted waste disposal area and 161 acres of non-waste disposal areas.

The expansion of the Temple Recycling and Disposal Facility under Permit No. 692B will add 191 acres and remove 17 acres of the area within the facility's existing permit boundary, and will result in a permit boundary of 443 acres. The elevation of the deepest excavation within the expanded facility will be 515 feet above mean sea level (ft-msl). The maximum final contour elevation of the expanded facility will increase from 759 to approximately 835 ft-msl. Figure I-A-5 in Appendix IA – General Location Maps shows the location of the disposal areas.

The currently permitted waste disposal area (Tracts 1C, 2A, 3, and 4) is permitted as a Type I MSW landfill and has Subtitle D cells and one pre-Subtitle D cell. Final cover has been constructed over 12.1 acres of the active waste disposal area and final cover construction will be ongoing as the site is developed.

One recompacted clay-lined cell (referred to herein as the pre-Subtitle D cell) was developed in the southeast corner of Tract 3. This cell has a 3-foot thick compacted clay liner with no leachate collection layer.

Entrance facilities, leachate storage facilities, maintenance facilities, and access roads are located west of disposal areas. There are existing easements throughout the facility. One powerline easement crosses the proposed expansion area and will be relocated. The remaining existing easements will not affect landfill operations. Existing structures/areas located at the facility, which will remain as part of this permit amendment application, include:

- Landfill administrative office
- Gatehouse and scales
- Citizen collection station
- Employee break room
- Evaporation ponds
- Landfill flare, blower, and ancillary items
- Liquid waste stabilization (processing) area
- Tire staging area
- Reusable material staging area
- Fuel storage area
- Large item salvage and white goods storage area
- Wheel wash

The landfill expansion will result in a permit boundary of 443 acres and a waste disposal area of 239 acres. The total disposal capacity of the expansion will be 55,540,000 cubic yards, and the remaining disposal capacity will be 43,000,000 cubic yards of waste and daily cover, based on the March 6, 2015 aerial topography. The total disposal capacity calculations are provided in Part III, Attachment 3, Appendix III-3A. – Volume and Site Life Calculations.

It is anticipated that in 2015, the landfill will receive approximately 420,000 tons of waste. The waste acceptance rate will vary over the life of the facility depending on market conditions. It is anticipated that the rate of waste disposal will reach approximately 740,000 tons per year and that the facility will have a site life of approximately 58 years.

The Table 1-2 summarizes the existing 692A and proposed 692B permit conditions.

Table I-2 – Permit Condition Summary

	Current Condition (692A)	Proposed Condition (692B)
Permitted Area (acre)	269	443
Waste Disposal Unit Area (acre)	108	239
Buffer/Other Area (acre)	161	204
Remaining Capacity (cubic yards)	7,760,392	43,000,000
Remaining Projected Site Life (years)	14	58
Maximum Elevation (ft-msl)	759	835
Elevation of Deepest Excavation (ft-msl)	536	515

Refer to Figure I-A5 for the general site layout plan.

The facility specific waste streams that are allowed to be accepted are municipal solid waste (MSW), Class 2 and Class 3 non-hazardous industrial solid waste (NHISW), special waste, and other waste as approved by the TCEQ Executive Director. Properties of the waste to be received are discussed in Part II, Section 2.0.

2.0 FACILITY LOCATION

2.1 Location Description

The Temple Recycling and Disposal Facility is an active Type I MSW facility in Bell County, Texas. The facility entrance is located at 706 Landfill Road, approximately 0.25 miles east of the intersection of Loop 363 and Little Flock Road in Bell County, Texas.

2.2 Access Routes

The site entrance is located on Little Flock Road, approximately 1,400 feet east of SE H K Dodgen Loop (Loop 363). The primary access route to the Temple Recycling and Disposal Facility is Little Flock Road. Refer to Figure I-A1 – General Highway Map for the location of the facility in relation to the surrounding roads.

2.3 Geographic Coordinates

The general coordinates of the facility are:

Latitude: N 31° 04' 21"
Longitude: W 97° 18' 09"

The facility site benchmark is based on FEMA/NGS Monument (PID BZ1457). The latitudinal and longitudinal geographic coordinates of the facility site benchmark are:

Latitude: N 31° 04' 36.360"
Longitude: W 97° 18' 15.393"
Elevation (ft-msl): 609.64

3.0 MAPS

3.1 General Location Maps

The following maps collectively comply with the requirements of 30 TAC §330.59(c)(1) & (2) and §305.45. These general locations maps are included in Appendix IA – General Location Maps:

- Figure I-A-1 – General Highway Map
- Figure I-A-2 – Site Location Map
- Figure I-A-3 – General Topographic Map
- Figure I-A-4 – Aerial Photograph
- Figure I-A-5 – General Site Plan

A Land Use Map is also included as Drawing 3 in Part II, Appendix IIB, Land Use Study.

3.2 Land Ownership Map and Land Owners List

A Land Ownership Map and Land Owners List are included in Appendix IB and reflect property ownership within one-quarter mile of the permit boundary. No mineral interest ownerships under the facility were identified. The map and list meet the requirements of 30 TAC §305.45(a), §330.59(c)(3), and §281.5. The list is also to be provided in electronic format on an enclosed CD per the requirements of 30 TAC §330.59(c)(3)(B).

4.0 PROPERTY OWNER INFORMATION

4.1 Legal Description

The legal description for the Temple Recycling and Disposal Facility permit boundary and the Bell County volume and page number are included in Appendix IC. The drawing of the permit boundary metes and bounds and permit boundary description is included in Appendix IC, Figure IC-1 – Permit Boundary Map.

4.2 Easements

The easement map, required by §330.61(c)(10), is provided in Appendix IC, Figures IC-2 and IC-3 – Pipeline and Utility Easement Location Maps. Easements that are shown within the waste footprint of MSW-692A are in the process being abandoned by the City of Temple. Copies of associated documentation is provided in Appendix IG. Existing easements within the expansion area will be abandoned prior to cell construction in the expansion area. No solid waste unloading, storage, disposal, or processing operations will occur within any easement that crosses the site. No solid waste disposal will occur within 25 feet of the center line of any utility line or pipeline easement, unless otherwise authorized by the executive director.

4.3 Property Owner Affidavit

The property owner affidavit for this permit amendment application, found in Appendix ID, meets the requirements of 30 TAC §330.59(d)(2) and §305.43(c).

5.0 LEGAL AUTHORITY

As indicated on the Part I form (item 19), the facility is owned by the City of Temple. The legal authority and status of the applicant meets the requirements of 30 TAC §330.59(e) and §281. No other person or entity owns more than 20 percent of the facility.

The certificate of incorporation for Waste Management of Texas, Inc. is provided in Appendix IE.

The City Charter establishes that the City Manager is the chief executive officer of the City. As the City's executive officer, the City Manager is designated to sign the application.

6.0 EVIDENCE OF COMPETENCY

The applicant for this landfill amendment is the City of Temple, who is also the owner of the Temple Recycling and Disposal Facility. On August 31, 1993, the City of Temple entered into an agreement with WMTX to lease and operate the landfill. Since there is a lease involved to operate the landfill, the evidence of competency information below also provides information regarding WMTX, in addition to the City of Temple.

6.1 City of Temple

Ms. Nicole Torralva, PE, Director of Public Works

As Director of Public Works, Ms. Torralva is responsible for directing the activities of the City's Public Works effort, which includes streets, drainage, traffic signals, fleet, water treatment, water distribution, wastewater collections, wastewater treatment, administration, engineering, as well as solid waste activities, including the Temple Recycling and Disposal Facility. Ms. Torralva has 20 years of experience in engineering and public works, with the last 9 years with the City of Temple.

6.2 Solid Waste Facility Operation

WMTX is a wholly-owned subsidiary of Waste Management, Inc. (WM), a Delaware Corporation based in Houston, Texas, whose shares are publicly traded on the New York Stock Exchange. WM is an international provider of solid waste management services and specializes in collection, transfer, disposal, recycling, and other waste management services provided to municipal, commercial, industrial, and residential customers.

WMTX has operated municipal solid waste disposal facilities in Texas since 1980. The table presented below lists the Texas solid waste facilities that have been owned and/or operated by WMTX (including their subsidiary USA Waste of Texas Landfills, Inc.) in the past 10 years unless otherwise indicated.

Table I-3 – WMTX Solid Waste Facilities

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
<i>USA Waste of Texas, Inc. (wholly-owned subsidiary of WMTX) Facilities:</i>				
Fairbanks Landfill	IV	1565A	Harris	1998 to Present
Greenshadows Landfill	IV	1540A	Harris	1995 to Present

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
Hawthorn Park Landfill	IV	2185	Harris	1995 to Present
Sam Houston Transfer Station	V	1471	Harris	1998 to Present
Koenig Street Transfer Station	V	1483A	Harris	1998 to Present
<i>Waste Management of Texas, Inc. Facilities:</i>				
Atascocita Recycling and Disposal Facility (RDF)	I	1307D	Harris	1991 to Present
Atascosa County Transfer Station	V	1871	Atascosa	1991 to 2014 (Permit cancelled)
Austin Community RDF	I	249D	Travis	1983 to Present
Baytown Landfill	I	1535B	Chambers	1995 to Present
City of Conroe/Western Waste	I	81A	Montgomery	1995 to 2011 (No longer receiving waste since 1996)
Coastal Plains RDF	I/ Class 1	1721A	Galveston	1991 to Present
Cougar Landfill	IV	1921A	Harris	1995 to Present
Covel Gardens Landfill	Class 1	2093B	Bexar	1992 to Present
DeKalb Transfer Station	V	40009	Bowie	1994 to 2015 (Rescinded permit)
DFW RDF	I	1025B	Denton	1980 to Present
Eagle Pass Transfer Station	V	40042	Maverick	1994 to 2006
Harker Heights Transfer Station	V	2213	Bell	1994 to 2009 (Facility moved to Temple Texas DBA Centex Waste Management)
Hillside Landfill	I	523B	Grayson	1996 to Present
Jourdanton Transfer Station	V	1871	Atascosa	1999 to Closed (Voluntary Revocation 2014)

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
Kingsland Transfer Station	V	40003	Llano	1994 to 1998
Lacy Lakeview RDF	I	1646A	McLennan	1986 to Present
Matagorda County Transfer Station	V	40028	Matagorda	1999 to 2009
Mesquite Creek Landfill	I	66B	Comal/Guadalupe	1987 to Present (Formally Comal County Landfill)
New Boston Landfill	I	576B	Bowie	1999 to Present
Newton County Regional Solid Waste Complex	Class 1	2242A	Newton	1995 to Present
Pecan Prairie RDF	I	1503	Hunt	1989 to Present
Pittsburg Transfer Station	V	40174	Camp	1999 to 2013
Rosillo Creek Landfill	I	1986	Bexar	1990 to Present (Permit cancelled October 2015)
Security Landfill	I	1752B	Montgomery	1992 to Present
Skyline Landfill	I	42C	Dallas/Ellis	1987 to Present
Temple RDF	I	692A	Bell	1993 to Present
Conroe/Western Waste Industrial	Class 1	SW39001	Montgomery	1995 to Present
Westside RDF	I	1019A	Tarrant	1983 to Present
Westside Transfer Station	V	40186	Tarrant	2003 to Present
Wharton Transfer Station	V	2099	Wharton	1991 to 2014 (Voluntary Permit Revocation)
Williamson County RDF	I	1405B	Williamson	1998 to Present
Winnsboro Transfer Station	V	40058	Wood	2000 to 2015 (Registration revoked)

WMTX has no financial interests outside the state of Texas.

6.3 Management and Personnel

Consistent with §330.59(f)(4), the names of the WMTX principals and supervisors are provided below, along with previous affiliations with other organizations engaged in solid waste activities.

Mr. Donald J. Smith, President

Mr. Smith holds the title of President with WMTX, and has responsibility for the overall management of WMTX and its wholly owned subsidiaries' operations throughout Texas. He has over 25 years of experience in the solid waste industry, and, in addition to being currently responsible for all WMTX and affiliate operations in this geographic area, he also handles regulatory and legislative affairs in the state of Texas pertaining to the solid waste industry.

Mr. Steve Jacobs, Director of Disposal Operations

Mr. Jacobs has over 31 years of experience in the solid waste industry, both in municipal solid waste and hazardous waste landfill operations and management. He has held a variety of positions ranging from equipment operator, to landfill manager, to a corporate region manager and an area manager, and now as a director of disposal operations in a two-state corporate region. Through this position, he has gained broad experience in the areas of landfill and earthwork construction. Mr. Jacobs was affiliated with Browning Ferris Industries, Inc. (BFI) for 18 years and CECOS International (a wholly-owned subsidiary of BFI) for 4 years before moving to WMTX. Mr. Jacobs has held positions of steadily increasing responsibility for personnel management and corporate financial management. He joined WMTX as an area manager, and transitioned to greater responsibility into his current position where he is responsible for the operations of multiple municipal solid waste landfills in Texas and Oklahoma. He holds a current Texas MSW Facility Class A license for supervising or managing a MSW landfill facility. Mr. Jacobs is designated as the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Subchapter F (Municipal Solid Waste Facility Supervisors).

Mr. Charles Rivette, PE, Director of Planning and Project Development

Mr. Rivette has over 25 years of experience in the operation and management of municipal and hazardous waste landfills. He has been involved with all aspects of landfill management during that period. Mr. Rivette was affiliated with BFI for 11 years prior to moving to WMTX. Presently, Mr. Rivette works daily with operations management of over 20 municipal solid waste landfill facilities in Texas. These responsibilities include profit/loss; regulatory compliance; oversight of permitting, engineering, environmental compliance, and landfill liner and final cover construction; personnel safety and training; and community relations activities. He holds a Texas Professional Engineer (PE) license and a Texas MSW Facility Class A license for supervising or managing a MSW landfill facility.

Mr. Tim Champagne, Environmental Protection Manager

Mr. Champagne is currently the environmental protection manager for various WMTX Texas landfill sites including the Temple Recycling and Disposal Facility. He has over 23 years of experience in the solid waste industry, including over 12 years of direct involvement with environmental compliance issues related to municipal solid waste in Texas. He is responsible for managing environmental compliance programs and related regulatory coordination at six municipal solid waste landfills, as well as eight other solid waste facilities in Texas.

Temple Landfill Manager

The Landfill Manager will be responsible for day-to-day landfill operations.

6.4 Equipment Dedicated to the Temple Landfill

Sufficient equipment will be provided to conduct site operations in accordance with the landfill design, operating requirements, and permit conditions. The equipment dedicated to the facility is listed on Table I-4. This list of equipment was developed based on the expected field conditions and what is necessary to undertake safe and efficient landfill operations for the range of waste acceptance rates expected for the life of the facility.

Table I-4 - Number and Type of Equipment Dedicated to the Facility

Equipment Type	Waste Acceptance Rate ^{1,2} (Tons Per Year)			Minimum ³ Size	Function
	Less Than 350,000	350,001 to 750,000	750,001 to 1,250,000		
Compactor	1	1	2	40,000 lb.	Waste spreading and compaction; fire protection.
Bulldozer	1	2	2	140 horsepower	Movement and placement of soil; waste spreading and compaction; fire protection.
Excavator ²	1	1	1	2.5 cy bucket	Excavation of soil; fire protection.
Haul Truck ²	1	2	2	20 cy	Hauling of soil; fire protection.
Motor Grader	1	1	1	12-ft blades	Grading of access roads
Water Truck	1	1	1	1,500 gallons	Dust control, fire protection.
Temporary Litter Fencing	1	3	4	200 feet long, 4 feet high	Active face litter control
Rotary Broom Sweeper	1	1	1	4-ft broom width	Road maintenance (cleaning).
Pump	1	1	1	50 gpm	Stormwater removal

- (1) The equipment size is the minimum size to be provided.
- (2) The equivalent function of an excavator(s) and a haul truck(s) working in tandem to excavate and transport soil may be met by a scrapers. Thus, at the facility, the excavator(s) and haul truck(s) may be replaced by a scraper(s) that provides equivalent production rates.
- (3) In the event of equipment breakdown or maintenance, backup equipment will be provided from other landfills that WMTX or its subsidiaries or affiliates own/operate, or from independent contractors or local rental companies, to avoid interruption of waste services and required facility operations.
 cy = cubic yard
 gpm = gallons per minute

7.0 APPOINTMENTS

In accordance with 30 TAC §330.59(g), the permit amendment application is signed by the City Manager, the City's executive officer. The signature page (page 9) of the Part I form meets the requirements of §305.44.

8.0 APPLICATION FEES

On behalf of the Temple Recycling and Disposal Facility, Golder Associates Inc. has made payment of the \$150 permit amendment application fee in accordance with §330.59(h). This fee was paid online using TCEQ e-pay at www.tceq.state.tx.us/e-service/index.html and the e-pay receipt is provided in Appendix 1F – Documentation of Application Fee Payment.