

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART I
SITE AND APPLICANT INFORMATION**

Prepared for

Waste Management of Texas, Inc.

April 2012

Revised August 2012



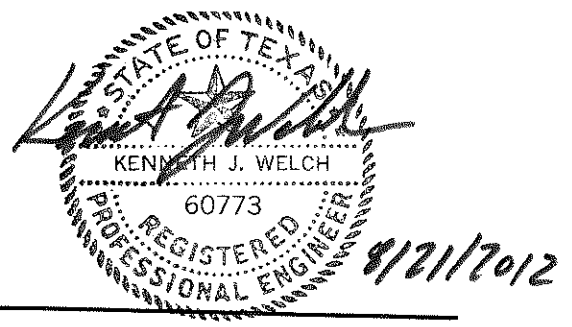
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CONTENTS

1 GENERAL I-1

 1.1 Permit History I-1

 1.2 Supplementary Technical Report I-2

2 FACILITY LOCATION I-5

 2.1 Location Description I-5

 2.2 Access Routes I-5

 2.3 Geographic Coordinates I-5

3 MAPS I-6

 3.1 General Location Maps I-6

 3.2 Land Ownership Map and Land Owners List I-6

4 PROPERTY OWNER INFORMATION I-7

 4.1 Legal Description I-7

 4.2 Drainage, Pipeline, and Utility Easements I-7

 4.3 Property Owner Affidavit I-7

5 LEGAL AUTHORITY I-8

6 EVIDENCE OF COMPETENCY I-9

 6.1 Solid Waste Sites I-9

 6.1.1 Texas Facilities I-9

 6.1.2 Other Facilities I-12

 6.2 Management and Personnel I-12

 6.3 Equipment Dedicated to the Skyline Landfill I-13

7 APPOINTMENTS I-15

8 APPLICATION FEES I-16

- APPENDIX IA – GENERAL LOCATION MAPS**
- APPENDIX IB – LAND OWNERSHIP MAP AND LAND OWNERS LIST**
- APPENDIX IC – LEGAL DESCRIPTION AND PERMIT BOUNDARY MAP**
- APPENDIX ID – LEGAL AUTHORITY**
- APPENDIX IE – APPOINTMENTS**
- APPENDIX IF – DOCUMENTATION OF APPLICATION FEE PAYMENT**

Received	Texas Commission on Environmental Quality Air Permits Division, Air New Source Permits 25101, 42830, 78422, 78639, 1485
Received	Texas Commission on Environmental Quality Sludge Registration, Registration No. 710865
Received	Texas Commission on Environmental Quality Municipal Solid Waste Processing Registration, Registration No. 48018
Received	U.S. Army Corps of Engineers, Section 404 Individual Permit No. SWF-2009-00371
<u>Received</u>	<u>U.S. Army Corps of Engineers, Nationwide Permit 39 No. SWF-2009-00138</u>
<u>Applied</u> <u>Received</u>	City of Ferris Floodplain Administrator – Placement of Fill in the 100-Year Floodplain

1.2 Supplementary Technical Report

The Skyline Landfill is an existing 666.95-acre (667 acres), Type I municipal solid waste disposal facility owned and operated by Waste Management of Texas, Inc. (WMTX). The Skyline Landfill is located in Dallas and Ellis Counties, on the north side of the city of Ferris within the city limits of Ferris, Texas and west of Old U.S. Highway 75 (Business IH 45). The Skyline Landfill provides waste disposal capacity for residences and businesses in Dallas and Ellis Counties and surrounding Texas counties.

The current permitted Skyline Landfill consists of a permit boundary of about 667 acres. The area within the permit boundary consists of 286.4 acres of permitted Subtitle D waste disposal footprint (Phase 1, 2, 3, 4, and 5), 68.3 acres of Pre-Subtitle D waste disposal area with final cover constructed, and 312.3 acres of buffer and other areas. The Subtitle D waste disposal footprint (Phase 1, 2, 3, 4, and 5) includes approximately 146.5 acres of active waste disposal area and approximately 139.9 acres of future disposal area. There are approximately 68.3 acres of Pre-Subtitle D area that have received final cover and will not accept any additional waste. The remaining site is currently active and all future development is under Subtitle D standards and requirements.

The permit amendment application will reduce the current permit boundary by 5.21 acres. The Skyline Landfill proposed permit boundary is 661.74 (662) acres. The proposed landfill expansion will remove approximately 20.1 acres and add approximately 22.3 acres of waste footprint for a net increase of 2.2 acres of waste disposal footprint. The maximum final contour elevation will remain at 688 feet-msl, ~~and the permit boundary will remain at approximately 667 acres.~~ The waste disposal footprint will be increased to approximately 284.4 acres for Phases 1, 2, and 3. The Phase 4 designation will not be used for phases with this expansion. Phase 5 consists of 4.2 acres.

~~Locations outside the permitted waste disposal areas that are used for buffer distance~~ Located between waste disposal areas and the permit boundary ~~include~~ are entrance facilities, a Type IX Beneficial Landfill Gas Recovery Facility (Type IX

Registration No. 48018), a citizen's convenience center, a leachate storage facility, a mud grate facility, a maintenance facility, access roads, and surface water drainage facilities. Waste processing and storage facilities located within the waste disposal footprint include a large item storage area, ~~a construction and demolition recycling and re-use/reusable materials storage~~ area, a liquid stabilization area, and a bioremediation treatment pad. There are two easements through the facility being Lone Star Gas and TU Electric, neither of which impact the development or operations of the facility.

In accordance with §330.141(a) and §330.543, solid waste unloading, storage, disposal, and processing operations will not occur within any easement, buffer zone, or right-of-way that crosses the site. The distance from the permit boundary to all solid waste unloading, storage, disposal, and processing operations exceed the minimum buffer zone distance of 125 feet. Refer to Appendix IA, Drawing IA.9 for a drawing that depicts the location of these facilities and the distances from the permit boundary.

The proposed landfill expansion will result in a remaining waste disposal capacity of approximately 53,505,000 cubic yards of waste and daily/intermediate cover, or approximately 41,198,850 tons of waste capacity, based on the March 4, 2012 aerial topography.

The Skyline Landfill receives approximately 1,040,000 tons annually (approximately 3,333 tons per day). The waste acceptance rate will vary over the life of the facility depending on market conditions. WMTX anticipates the maximum rate of waste disposal to be approximately ~~1,622,740~~ 1,600,331 tons per year (approximately ~~5,200~~ 5,129 tons per day). Based on the current waste acceptance, the facility will have an approximate site life of ~~33~~ 32 years.

The following table provides a summary of the current permit conditions and proposed permit conditions:

PERMIT CONDITION SUMMARY

	Current Condition (42C)	Proposed Condition (42D)
Permitted Area	666.95ac	661.74 ac
Waste Disposal Unit Area ⁽¹⁾	286.4 ac	288.6 ac
Pre-Subtitle D Area ⁽²⁾	68.3 ac	68.3 ac
Total Waste Disposal Unit Area	354.7 ac	356.9 ac
Buffer / Other Areas	312.25 ac	304.84 ac
Total Remaining Capacity	32,879,000 cy	53,505,000 cy
Remaining Projected Site Life	24 years	32 years
Maximum Elevation of Final Cover (msl)	688 ft	688 ft
Elevation of Deepest Excavation (msl)	410.1 ft	377 ft

⁽¹⁾ Current condition (42C) waste disposal footprint consists of Phase 1, 2, 3, 4, and 5. The proposed condition (42D) does not use the Phase 4 designation. The 42D waste disposal unit area is designated as Phase 1, 2, 3, and 5. Refer to Appendix IA, Drawings IA.6, IA.7, and IA.9.

⁽²⁾ Pre-Subtitle D area footprint has received final cover. Refer to Appendix IA, Drawings IA.6, IA.7 and IA.9.

Refer to Appendix IA, Drawing IA.6, IA.7, IA.8, and IA.9 for drawings that depict the Skyline Landfill. These drawings, collectively as a group, depict the current and proposed permit conditions including the permit boundary and waste disposal footprint. In addition, these drawings depict solid waste unloading, storage, disposal, and processing operations; as well as buffer zones and easements. There are no right-of-ways within the facility.

Facility Operating Hours

The existing Skyline Landfill (Permit No. MSW 42C) is authorized for waste acceptance between the hours of 5:00 a.m. and 7:00 p.m. Monday through Friday, and 5:00 a.m. through 3:00 p.m. on Saturday. The facility is closed on Sunday. The existing Skyline Landfill is authorized for site operations (i.e., transportation of materials and heavy equipment operation) between the hours of 3:00 a.m. and 9:00 p.m. Monday through Friday, and 3:00 a.m. and 5:00 p.m. on Saturday.

With the proposed expansion of the Skyline Landfill (Permit No. MSW 42D), the facility's operating hours are proposed to increase. The Skyline Landfill proposes authorization for waste acceptance 24 hours per day, Monday through Friday, and until 3:00 p.m. on Saturday. The facility will post on the site entrance sign the hours for waste acceptance from public and private haulers. The Skyline Landfill also proposes to increase site operations (i.e., transportation of materials and heavy equipment operation) to 24 hours per day, 7 days per week.

2 FACILITY LOCATION

30 TAC §330.59(b)(1)-(3)

2.1 Location Description

The Skyline Landfill is an existing Type I Municipal Solid Waste Disposal Facility located in Dallas and Ellis Counties, Texas. The Skyline Landfill is located on the north side of the City of Ferris within the city limits of Ferris, Texas and west of Old U.S. Highway 75 (Business IH 45). The eastern site boundary coincides with the west line of the Southern Pacific Railroad right-of-way.

The facility is located at 1201 N. Central ~~Avenue~~Street, Ferris, TX 75125.

2.2 Access Routes

The main public roadway providing access to the facility is Old U.S. Highway 75 (Business IH 45). The site access road is constructed of reinforced concrete and varies in width from 30 feet to 43 feet for the first 500 feet from Old U.S. Highway 75. The remainder of the road (approximately 1,700 feet) is reinforced concrete, and is 24 feet in width with 3-foot asphalt shoulders on each side, for a total width of 30 feet.

Refer to Part II, Section 9 – Transportation for more detailed transportation information. Refer to Drawing 1A.1 – General Highway Map – Dallas and Ellis Counties for the location of the facility in relation to the surrounding roads.

2.3 Geographic Coordinates

The latitudinal and longitudinal geographic coordinates of the facility are:

Latitude: 32°32'48.0"

Longitude: 96°39'57.4"

Elevation (above msl): 438.58 ft

The state plane (NAD 27) coordinates of the facility are:

Northing: 321170.17

Easting: 2257006.27

3 MAPS

30 TAC §330.59(c)(1)-(3)

3.1 General Location Maps

The following maps, collectively as a group, comply with the rule requirements of §330.59(c)(1)-(2) and §305.45. These general location maps are included in Appendix IA – General Location Maps.

- Drawing IA.1 – General Highway Map – Dallas and Ellis Counties
- Drawing IA.2 – Detailed Highway Map – Dallas and Ellis Counties (Texas Department of Transportation, General Highway Map for Dallas and Ellis Counties, Texas)
- Drawing IA.3 – General Topographic Map (USGS General Topographic Map for the Ferris, Texas Quadrants)
- Drawing IA.4 – ~~Water Well~~Wells, Springs and Water Bodies Location Map
- Drawing IA.5 – Aerial Photograph
- Drawing IA.6 – Site Plan
- Drawing IA.7 – General Site Plan
- Drawing IA.8 – Entrance Road and Entrance Facilities Plan
- Drawing IA.9 – Buffer Zone Plan

3.2 Land Ownership Map and Land Owners List

A Land Ownership Map and Land Owners List are included in Appendix IB – Land Ownership Map and Land Owners List to reflect current property ownership within one-quarter mile of the permit boundary, and all mineral interest ownership under the facility. The map and list meet the requirements of 30 TAC §305.45(a), §330.59(c)(3), and §281.5. The list shall also be provided in electronic format on an enclosed cd per the requirements of 30 TAC §330.59(c)(3)(B).

4 PROPERTY OWNER INFORMATION

30 TAC §330.59(d)(1)-(2)

4.1 Legal Description

The legal description for the Skyline Landfill permit boundary is included in Appendix IC – Legal Description. This legal description meets the requirements of 30 TAC §330.59(d)(1). The current ownership record is recorded in Volume 88124, page 3068 of the Land Records of Dallas and Ellis Counties, Texas. The drawing of the permit boundary metes and bounds is included in Appendix IC as Drawing A1 – Permit Boundary Skyline Landfill, on page IC-5. The volume and page number from the Deed Records of Ellis and Dallas County are included in Appendix IC as written in the Legal Description, pages IC-1 through IC-4.

4.2 Drainage, Pipeline, and Utility Easements

The drainage, pipeline, and utility easements metes and bounds are provided in Appendix IC, Drawing A1, page IC-5. The drainage, pipeline, and utility easements are also identified in Appendix IA on Drawing IA.6 – Site Plan, Drawing IA.7 – General Site Plan, and Drawing IA.8 – Entrance Road and Entrance Facilities Plan, as required by §330.61(c)(10).

4.3 Property Owner Affidavit

The property owner affidavit for this permit amendment application found on page 9 of the Part I Form meets the requirements of §330.59(d)(2).

5 LEGAL AUTHORITY

30 TAC §330.59(e)

The legal authority and status of the applicant has been verified as required by §330.59(e) and §281.5 and is included in Appendix ID – Legal Authority. WMTX owns and operates the Skyline Landfill. No other person or entity owns more than 20 percent of the facility.

6 EVIDENCE OF COMPETENCY

30 TAC §330.59(f)(1)-(6)

The evidence of competency for this permit applicant follows and meets the requirements of §330.59(f).

The Skyline Landfill is owned and operated by WMTX, 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 supplier 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. The following list identifies the facilities owned and/or operated by WMTX in the past 10 years.

6.1 Solid Waste Sites

WMTX has operated municipal solid waste facilities in Texas since 1980. The Skyline Landfill was acquired by WMTX in 1987. The facility currently operates under TCEQ Permit No. MSW 42C, issued on April 18, 1995.

6.1.1 Texas Facilities

Below is a list of Texas solid waste sites that WMTX has owned/operated within the past ten years, unless otherwise indicated.

Site Name	Type	Registration/ Permit Number	County	Dates of Operation
Atascocita RDF	Type I	1307D	Harris	1991 to present
Atascosa County Transfer Station	Type V	1871	Atascosa	1991 to present
Austin Community RDF	Type I	249D	Travis	1983 to present
B & D Landfill	Type I	1897	Brazoria	1995 to present
Baytown Landfill	Type I	1535B	Chambers	1995 to present
Bluebonnet Landfill	Type I	1279	Harris	1982 to present
Brazoria County RDF	Type I	1539	Brazoria	1995 to 1998
City of Conroe Landfill	Type I	81A	Montgomery	1995 to present

Site Name	Type	Registration/ Permit Number	County	Dates of Operation
Coastal Plains RDF	Type I	1721A	Galveston	1991 to present
Cougar Landfill	Type IV	1921A	Harris	1995 to present
Covel Gardens Landfill	Type I/Class 1	2093B	Bexar	1992 to present
Crow Landfill	Type I	208	Tarrant	1995 to 1997
DeKalb Transfer Station	Type V	40009	Bowie	1994 to present
DFW RDF	Type I	1025B	Denton	1980 to present
Eagle Pass Transfer Station	Type V	40042	Maverick	1994 to present
Ellis County Landfill	Type I	1745	Ellis	1988 to 1997
Fairbanks Landfill	Type IV	1565A	Harris	1995 to present
Granbury Transfer Station	Type V	1592A	Hood	1990 to 2001
Greenbelt South Landfill	Type IV	1478	Harris	1995 to present
Greenshadows Landfill	Type IV	1540A	Harris	1995 to present
Harker Heights Transfer Station	Type V	2213	Bell	1994 to present
Hawthorn Park Landfill	Type IV	2185	Harris	1995 to present
Hillside Landfill	Type I	523B	Grayson	1996 to present
Hillside Transfer Station	Type V	40082	Grayson	1996 to 1999
Indian Paintbrush Landfill	Type IV	1441	Harris	1995 to present
Jourdanton Transfer Station	Type V	1871	Atascosa	1999 to present
Kingsland Transfer Station	Type V	40003	Llano	1994 to present
Koenig Street Transfer Station	Type V	1483A	Harris	1998 to present
Lacy Lakeview RDF	Type I	1646A	McLennan	1986 to present
Matagorda County Transfer Station	Type V	40028	Matagorda	1999 to present

Site Name	Type	Registration/ Permit Number	County	Dates of Operation
Mesquite Creek Landfill	Type I	66B	Comal	1987 to present
New Boston Landfill	Type I	576B	Bowie	1999 to present
Newton County Regional Solid Waste Complex	Type I/Class 1	2242A	Newton	1995 to present
Northwest Transfer Station	Type V	1092	Harris	1984 to 1997
Paris Landfill	Type I	1454B	Lamar	2000 to present
Pecan Prairie RDF	Type I	1503	Hunt	1989 to present
Pittsburg Transfer Station	Type V	40174	Camp	1999 to present
Rosillo Creek Landfill	Type I	1986	Bexar	1990 to present
Sam Houston Transfer Station	Type V	1471	Harris	1998 to present
Security Landfill	Type I	1752B	Montgomery	1992 to present
Skyline Landfill	Type I	42C	Dallas/Ellis	1987 to present
Southeast Landfill	Type I	218A	Tarrant	1982 to 2003
Temple RDF	Type I	692A	Bell	1993 to present
Urban Waste Landfill	Type IV		Harris	1998 to 2000
Conroe/Western Waste Industrial	Class 1	SW39001	Montgomery	1995 to present
Westside RDF	Type I	1019A	Tarrant	1983 to present
Westside Transfer Station	Type V	40186	Tarrant	2003 to present
Wharton Transfer Station	Type V	2099	Wharton	1991 to present
Williamson County RDF	Type I	1405B	Williamson	1998 to present
Winnsboro Transfer Station	Type V	40058	Wood	2000 to present
WMI Medical Services (Incinerator)	Type V	30	Kaufman	1988 to 1996

6.1.2 Other Facilities

WMTX has no financial interests outside the state of Texas.

6.2 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, Area Vice President, Waste Management of Texas, Inc.

Mr. Smith has over 25 years of experience in the solid waste industry. Mr. ~~Myhan-Smith~~ is currently the Market Area Vice President and is responsible for all WMTX operations within this geographic area, as well as 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/hazardous waste landfill operations and management. Mr. Jacobs has served as an equipment operator, a landfill manager, a corporate region manager and an area manager, gaining broad experience in the areas of landfill and earthwork construction. Mr. Jacobs was affiliated with Browning Ferris Industries, Inc. (BFI) for 18 years and CEOS-CECOS International, a wholly owned subsidiary of BFI, for 4 years before moving to WMTX. Mr. Jacobs has held positions with steadily increasing responsibilities in personnel management and corporate financial management. Mr. Jacobs joined WMTX as an area manager, responsible for the operations of multiple municipal solid waste landfills in Central Texas and South Texas. Mr. Jacobs holds a current MSW Facility Class A license for supervising or managing a Type I landfill facility.

Mr. Walter Hunt, P.E., Regional Engineering Manager

Mr. Hunt is responsible for engineering and regulatory coordination of Waste Management's municipal solid waste disposal operations in North Texas, Oklahoma, and Arkansas. Mr. Hunt has over 24 years of experience with environmental and geotechnical engineering projects, including municipal solid waste in Texas. Mr. Hunt has served as design engineer, project engineer, and permit engineer at Team Consultants and EMCON. Mr. Hunt has held positions of increasing responsibility with WMTX including permit engineer and division engineer responsible for capital projects.

Mr. Guy Campbell, Engineering Manager

Mr. Campbell is responsible for engineering and construction for the North Texas landfills. Mr. Campbell has over 15 years experience with environmental and engineering projects, including municipal solid waste in Texas. Mr. Campbell has been affiliated with several engineering consultants and has been with WMTX for over three years.

Ms. Paula Carboni, Environmental Compliance Manager

Ms. Carboni is the environmental compliance manager for the North Texas landfills. Ms. Carboni has over 20 years of experience in the waste management industry, including over 6-17 years of direct involvement with environmental compliance issues related to municipal solid waste in Texas. Ms. Carboni was affiliated with BFI for 4-10 years before moving to WMTX.

Mr. Kano Galindo, Landfill Manager

Mr. Galindo oversees all landfill operations for the Skyline Landfill and currently serves as manager of the Skyline Landfill. He has over 8 years of experience in municipal solid waste disposal operations and management of landfills. Mr. Galindo holds a current MSW Facility Class A license as a municipal solid waste facility supervisor in accordance with 30 TAC, Chapter 30, Subchapter F: Municipal Solid Waste Facility Supervisors.

6.3 Equipment Dedicated to the Skyline Landfill

Sufficient equipment will be provided to conduct site operations in accordance with the landfill design and permit conditions. The equipment requirements for this facility were based on an anticipated solid waste volume and field conditions consistent with §330.127(2).

Equipment Dedicated to the Skyline Landfill⁽¹⁾

Equipment ⁽³⁾	Typical Size ⁽⁴⁾	Number ⁽⁵⁾			Function
		Less than 2000 tpd	2001 to 5000 tpd	5001 to 8000 tpd	
Compactor(s)	CAT 826, 836	1	2	3	Waste compaction and fire protection
Dozer(s)	CAT D6, D7, D8	1	2	2	Soil movement and placement, waste spreading, and fire protection
Scraper(s) ⁽²⁾	CAT 621F	1	2	3	Soil excavation and hauling, and fire protection
Excavator ⁽²⁾	CAT 330C	1	1	1	Soil excavation
Haul Truck(s) (2)	10 to 40 ton	1	2	3	Soil hauling and fire protection
Motor Grader	CAT 120, 12G	1	1	1	Roadway maintenance
Farm Tractor	35 HP	1	1	1	Miscellaneous maintenance
Pickup Truck(s)	1/2 ton	1	1	1	Personnel use, litter control, maintenance
Water Truck(s)	1,000 gallons	1	1	1	Fire control, dust control, earthfill compaction
Pump(s)	10 to 500 gpm	1	1	1	Stormwater pumping

⁽¹⁾The manufacturers of the heavy equipment and miscellaneous vehicles and equipment may vary.
⁽²⁾Soil excavation will be conducted with scraper(s) or with an excavator and haul trucks(s). The landfill will determine the appropriate excavation equipment as the landfill is developed.

⁽³⁾Backup equipment will be provided from other WMTX facilities, contractors, or local rental companies to obtain equipment in the event of equipment breakdown or maintenance to avoid interruption of waste services.

⁽⁴⁾Typical size is minimum size to be provided.

⁽⁵⁾The number stated for each piece of equipment is the minimum number for each piece of equipment to be provided.

7 APPOINTMENTS

30 TAC §330.59(g)

The appointments prepared for this permit amendment application meet the requirements of §330.59(g) and §305.44. The Appointment of the Applicant's Agent and the Engineer's Appointment are provided in Appendix IE – Appointments.

8 APPLICATION FEES

30 TAC §330.59(h)(1)-(2)

On behalf of Skyline Landfill, Biggs and Mathews Environmental, 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.

The e-pay confirmation number is 582EA000117119. The e-pay receipt is provided in Appendix IF – Documentation of Application Fee Payment.