

**FORT WORTH SOUTHEAST LANDFILL
TARRANT COUNTY, TEXAS
TCEQ PERMIT NO. MSW-218C**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
APPENDIX IIIM
SITE LIFE CALCULATIONS**

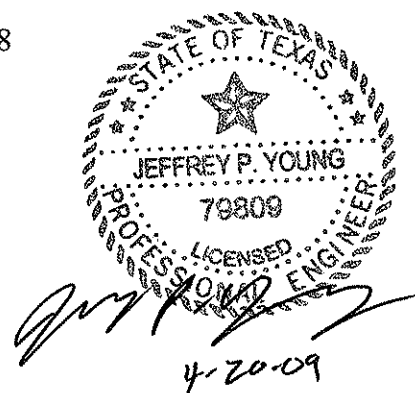
Prepared for

City of Fort Worth

October 2007

Revised August 2008

~~Revised April 2009~~



Prepared by:

Weaver Boos Consultants, LLC–Southwest

6420 Southwest Blvd., Suite 206

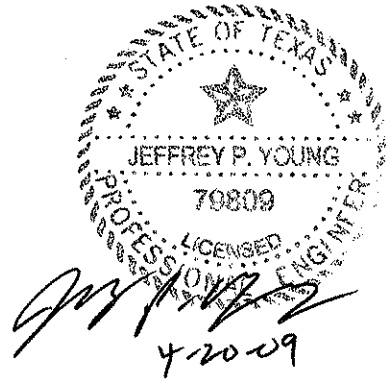
Fort Worth, TX 76109

817-735-9770

WBC Project No. 0120-435-11-48-17

CONTENTS

1	SITE LIFE	IIIM-1
1.1	Solid Waste Generation	IIIM-1
1.1.1	Solid Waste Generation Information Using City of Fort Worth Projections	IIIM-1
1.1.2	Solid Waste Generation Information Using Historical Data	IIIM-2
1.2	Population Equivalent	IIIM-2
1.3	Landfill Capacity	IIIM-3
1.4	Site Life Calculations	IIIM-3
1.4.1	Site Life Information Using City of Fort Worth Projections	IIIM-3
1.4.2	Site Life Information Using Historical Data	IIIM-3



1 SITE LIFE

1.1 Solid Waste Generation

Two estimates have been developed to provide an assessment of the solid waste generation rate for the Fort Worth Southeast Landfill. The estimate included in Section 1.1.1 is based on the City of Fort Worth and the Site Operator's knowledge of market conditions, both currently and after the permit amendment is issued. The estimate included in Section 1.1.2 is based on historical waste inflow data.

The estimate in Section 1.1.1 is used throughout the application because it is the best estimate of the likely waste generation rate. This estimate also provides for a conservative design as it is used as the basis for the traffic study and landfill gas generation rate model. However, the estimate in Section 1.1.2 is provided to show that if the waste inflow does not increase as projected by the City and the Site Operator, then the life of the site may be extended by a number of years.

It is important to note that the estimates included in both sections are based on numerous assumptions and may vary as market conditions change.

1.1.1 Solid Waste Generation Information Using City of Fort Worth Projections

Over the last few years the waste inflow rate at the Southeast Landfill has varied from 551 tons/day to 1,086 tons/day as listed below.

Year	Actual Waste Inflow ¹	Typical Daily Waste Inflow Rate Based on a 272-Day Operating Schedule
2005	295,306 tons/year	1,086 tons/day
2006	192,015 tons/year	7,056 706 tons/day
2007	149,800 tons/year	551 tons/day

¹ Information obtained from the TCEQ MSW Annual Reports filed by the City of Fort Worth.

The waste inflow has decreased over the last three years because of site access issues and concern regarding the limited remaining airspace at the site. The City and the Site Operator project that the waste inflow will increase to 231,200 tons per year (850 tons/day based on a 272-day operating schedule) in 2008. Then in 2010, the City and Site Operator estimate that the waste inflow will increase to 680,000 tons per year (2,500 tons/day based on a 272-day operating schedule). This estimate is based on the major permit amendment (TCEQ Permit No. 218C) being issued this year. This increase in waste inflow is based on

1.3 Landfill Capacity

The estimated ~~total capacity~~ of ~~maximum inventory~~ of waste (defined as waste and daily cover) ever on site over the active life of the facility is approximately 38.558 million cubic yards. The total volume available for solid waste and daily cover after March 4, 2008 (date of topographic information) is estimated to be 29,706,000 cubic yards using the average end area method. This airspace estimate includes the remaining available volume in the existing permitted area, as well as the volume resulting from the major permit amendment. ~~The current volume of waste (defined as waste and daily cover) in-place as of March 4, 2008, is approximately 8,852,000 cubic yards.~~

1.4 Site Life Calculations

1.4.1 Site Life Information Using City of Fort Worth Projections

The site life calculations are presented on pages IIIM-4 through IIIM-46. In summary, the site life is projected to be approximately 24 years, which would result in the site's closure during the year 2032.

1.4.2 Site Life Information Using Historical Data

The site life calculations using historical data are presented on pages IIIM-7 through IIIM-9. For this case, the site life is projected to be approximately 65 years, which would result in the site's closure during the year 2073.