



PERMIT AMENDMENT APPLICATION

Part III

# SITE DEVELOPMENT PLAN

Edinburg Regional Disposal Facility

Edinburg, Hidalgo County, Texas

TCEQ Permit MSW-956C

**Submitted To:** City of Edinburg  
Department of Solid Waste Management  
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INTENDED FOR PERMITTING  
PURPOSES ONLY

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- Attachment 1 General Facility Design
- Attachment 2 Surface Water Drainage Report
- Attachment 3 Waste Management Unit Design
- Attachment 4 Geology Report
- Attachment 5 Groundwater Characterization and Monitoring Report
- Attachment 6 Landfill Gas Management Plan
- Attachment 7 Closure Plan
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## **EXECUTIVE SUMMARY**

This Site Development Plan (SDP) has been developed in accordance with 30 TAC §330.63(a). This plan includes criteria used to design the Edinburg Regional Disposal Facility to safeguard the health, welfare, and physical property of the people and the environment through the consideration of geology, soil conditions, drainage, land use, zoning, adequacy of access roads and highways, and other considerations, as general facility design.

### **1.0 SITE DEVELOPMENT PLAN**

#### **1.1 General Facility Design**

Part III1, General Facility Design has been developed in accordance with 30 TAC §330.63(b). This attachment includes descriptions of facility access, waste movement, sanitation, water pollution control, and endangered species protection.

#### **1.2 Surface Water Drainage Report**

Part III2, Surface Water Drainage Report has been developed in accordance with 30 TAC §330.63(c). This attachment provides a detailed description of the hydrologic and hydraulic analyses performed for the facility design and includes detailed design calculations and operational considerations for the management of site stormwater. As demonstrated, the facility design complies with the requirements of 30 TAC §330.63(c) and 30 TAC 330 Subchapter G, and will not adversely alter existing or permitted drainage patterns. The facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and will prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. Surface water drainage within the facility will be controlled to minimize surface water running onto, into, and off the treatment area.

#### **1.3 Waste Management Unit Design**

Part III3, Waste Management Unit Design Report has been developed in accordance with 30 TAC §330.63(d). This attachment includes a Liner Quality Control Plan is prepared under the direction of a licensed professional engineer in accordance with 30 TAC §330.63(d)(4), and applicable sections of 30 TAC, Chapter 330, Subchapter H “Liner System Design and Operation.” The Edinburg Regional Disposal Facility (the facility) has been designed to safeguard the health, welfare, and physical property of the people and the environment through various design considerations, which include volume and site life calculations, geotechnical analyses, liner design, leachate management, all-weather access, and other operational considerations.

#### **1.4 Geology Report**

Part III4, Geology Report has been developed in accordance with 30 TAC §330.63(e). This attachment is prepared and signed by a qualified groundwater scientist. Previously prepared documents supplement this

report as necessary to provide the requested information. Sources and references for information are provided. This report summarizes available data related to regional geology and local geology and aquifers in the vicinity of the facility. Based on a review of information gathered and on the results of subsurface, geotechnical, and hydrogeological investigations, the Edinburg Regional Disposal Facility is suitable for its continued operation and development as a municipal solid waste disposal facility

## **1.5 Groundwater Characterization and Monitoring Report**

Part III5, Groundwater Characterization and Monitoring Report has been developed in accordance with 30 TAC §330.63(f). This attachment is prepared in accordance with 30 TAC §§330.63(f) and 330.403. This report summarizes available data related to the occurrence and distribution of groundwater, establishes a groundwater monitoring system, and provides a Groundwater Sampling and Analysis Plan (GWSAP).

## **1.6 Landfill Gas Management Plan**

Part III6, Landfill Gas Management Plan is prepared in accordance with 30 TAC §330.63(g) and all of the requirements 30 TAC §330, Subchapter I. A Landfill Gas Management Plan (LFGMP) has been developed for the facility to provide a site-specific approach for implementing landfill gas (LFG) monitoring and control.

In addition to this LFGMP developed to address all of the requirement in 30 TAC §330 Subchapter I, the City must also comply with other applicable federal and state air quality regulations.

- 40 CFR Part 60, Subpart WWW
- 40 CFR Part 60, Subpart XXX
- 40 CFR Part 63, Subpart A, 63.6(e)(3)
- 30 TAC §330 Subchapter U

## **1.7 Closure Plan**

Part III7, Closure Plan has been developed to addresses the requirements of Title 30 of the Texas Administrative Code (TAC) §§330.63(h) and 330.457 (Subchapter K), Closure Requirements for Municipal Solid Waste Landfill Units that Receive Waste on or after October 9, 1993. This plan includes a description of the final cover systems, a description of the steps that will be undertaken to close each filled disposal area, and the methods used to install the final cover.

## **1.8 Post-Closure Plan**

Part III8, Post-Closure Plan is prepared in accordance with 30 TAC Chapter 330 Subchapter K and the City shall place a copy of this plan in the operating record upon issuance of this permit. The post-closure plan includes a description of the monitoring and maintenance activities required and the frequency at which these activities will be performed. The City is the responsible for overseeing and conducting post-closure care activities.

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Also included in this post-closure plan is a description of the planned uses of any portion of the closed unit during the post-closure period in accordance with 30 TAC §330.465. A detailed written estimate, in current dollars, of the cost of post-closure care maintenance and any corrective action as described in this post-closure care plan or required by the TCEQ is included in Part III9B, Post-Closure Cost Estimate.

## **1.9 Closure and Post-Closure Cost Estimates**

Part III9, Closure and Post-Closure Cost Estimates has been prepared in accordance with 30 TAC §330 Subchapter L and documentation required to demonstrate financial assurance as specified in 30 TAC §37 Subchapter R.

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