

**CITY OF ARLINGTON LANDFILL
TARRANT COUNTY - MSW PERMIT NO. 358B**

PART III – SITE DEVELOPMENT PLAN

**ATTACHMENT 8
POST-CLOSURE PLAN**

Prepared for:



City of Arlington, Texas

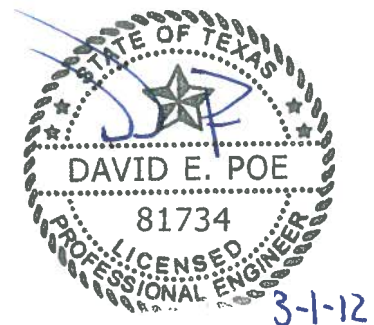
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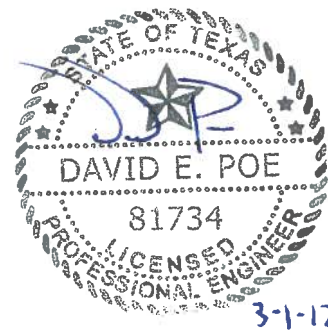
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PART III

**ATTACHMENT 8
POST-CLOSURE PLAN**

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1.0 BACKGROUND

The following Post-Closure Plan (Plan) describes the requirements for long-term monitoring and maintenance of the City of Arlington Landfill (Facility) subsequent to closure of the Facility.

Post-closure care monitoring and maintenance of the Facility will begin upon the date of final closure of the Facility, as approved by the executive director of the Texas Commission on Environmental Quality (TCEQ). This Plan incorporates requirements for final cover system monitoring and maintenance, leachate management, gas management, and groundwater sampling and analysis for the long-term post-closure care of the Facility. Any modifications to this plan or other related plans will require prior approval by the executive director.

Regulatory citations noted within the following Plan refer to corresponding sections of Title 30 of the Texas Administrative Code (30 TAC), Chapter 330.

The post-closure period will be 30 years following the date of written confirmation by TCEQ that the landfill or unit of the landfill has been closed in accordance with the approved Closure Plan, unless the period is decreased or increased by the administrative authority in accordance with §330.463(b)(2)(A) or (B). During this period, the final cover system and associated facilities will be maintained and monitoring activities will be performed to ensure that the closed Facility will continue to retain its integrity and will not pose a threat to human health or the environment.

The City of Arlington and its successors will retain the right-of-entry to the permit property and shall maintain all rights-of-way throughout the post-closure period. The integrity and effectiveness of the final cover, vegetation, and drainage control systems will be maintained. During the post-closure maintenance period of the permit property, the City of Arlington will conduct maintenance and/or remediation activities required to correct the effects of excessive settlement, subsidence, ponded water, erosion and other events or failures detrimental to the integrity of the Facility control systems and the final cover system.

The name, address and telephone number of the City of Arlington office responsible for overseeing and conducting the post-closure care maintenance activities at the Facility is provided below:

City of Arlington, Texas
Attention: City Manager
101 West Abram Street, 3rd Floor
Arlington, Texas 76011
(817) 459-6100

2.0 FINAL COVER SYSTEM MONITORING AND MAINTENANCE

During the post-closure monitoring and maintenance period of the Facility, the final cover will be inspected semi-annually. Monitoring and maintenance activities will be performed in order to maintain the integrity and effectiveness of the final cover system. Records of the inspections will be maintained in the site operating record.

Items considered in the semi-annual assessment will include:

- Inspection of the final cover for vegetation, erosion, and functionality of the surface water drainage systems.
- Inspection of access roads, fences, gates, signage and on-site structures.
- Erosion, cuts and depressions in the final cover will be noted, as will damage and debris and sediment build-up in the drainage systems.
- The need for final cover system repairs due to differential settlement or subsidence will be determined based on an evaluation of whether the performance of the affected area has been impacted. For major settlement or subsidence events, a qualified Professional Engineer will be consulted regarding any needed repairs.
- Inspection of vegetation for bare or distressed areas, or undesirable plant species.

Maintenance activities might include the following:

- Performing final cover repairs to fill erosion cuts and low areas.
- Drainage systems will be regarded or reconstructed as necessary, and cleared of debris and sediment as needed to facilitate continued adequate performance.
- Bare areas, or areas with distressed or poorly established vegetation will be re-vegetated, as necessary. The vegetative cover will be maintained as necessary to promote viable plant growth.
- Areas of settlement and subsidence requiring repair will be regraded and re-vegetated, as necessary to promote surface drainage.
- Temporary stormwater control measures will be implemented in the repair areas, as necessary, to protect the areas during the re-vegetation period.
- Fence or gate damage impacting access control will be repaired.

At a minimum, maintenance will be performed as needed prior to the next scheduled inspection.

3.0 GROUNDWATER MONITORING

Groundwater monitoring activities will continue throughout the post-closure care period in accordance with 30 TAC 330, Subchapter J and the site specific Groundwater Sampling and Analysis Plan (GWSAP, included in Attachment 5).

All groundwater monitoring wells that are part of the groundwater monitoring network will be monitored semi-annually and maintained in accordance with Part III, Attachment 5, Appendix 5-B of the GWSAP unless otherwise approved by the executive director. Maintenance of the groundwater monitoring system will be performed as needed. The need for maintenance will be determined through inspection of the wells during the semi-annual groundwater monitoring event, and will include inspection of items as discussed in the GWSAP.

Maintenance will be performed as needed, based on the inspection results, prior to or during the next scheduled sampling event, depending on the extent of the repairs or maintenance required.



4.0 GAS MANAGEMENT

Landfill gas monitoring activities will continue throughout the post-closure care period, in accordance with the requirements of 30 TAC 330, Subchapter I, as conducted during the active Facility operations.

All structures and permanent gas monitoring probes will be sampled in accordance with Part III, Attachment 6, LFG Management Plan unless otherwise approved by the executive director. Maintenance and operations of the landfill gas monitoring system will be performed as needed. Particular attention will be paid to ensuring that monitoring equipment is calibrated according to the manufacturers' recommendations.

The need for maintenance will be determined through inspection of the system during the sampling event. Maintenance will be performed as needed, based on the inspection results, prior to or during the next scheduled sampling event, depending on the extent of the repairs or maintenance required.



5.0 LEACHATE MANAGEMENT

Leachate collection and disposal activities will continue throughout the post-closure care period as conducted during the active Facility operations, in accordance with the requirements of §330.331 and §330.333 and Part III, Attachment 3, the Waste Management Unit Design Report.

Maintenance and operation of the leachate collection system will also be conducted in accordance with Part III, Attachment 3.

The need for maintenance will be assessed during performance of routine monitoring. In accordance with §330.463(b)(1)(B), The City of Arlington may stop managing leachate if a demonstration that leachate no longer poses a threat to human health and the environment is approved by the executive director.



6.0 POST-CLOSURE LAND USE

There are no current plans to construct buildings or other structures for the post-closure land use. Post-closure land use will be in accordance with this section and the current 30 TAC Chapter 330, Subchapter T (related to Use of Land over Closed Municipal Solid Waste Landfills). Portions of the permitted area, to the south of the EDA and south and west of the EWDA, and north of the West Fork Trinity River, may be utilized as open space or parks.

No activities will be allowed that could damage any final cover systems, liner systems, LFG management systems, or groundwater or gas migration systems.



7.0 COMPLETION OF POST-CLOSURE CARE

After the appropriate post-closure care period has expired, the City of Arlington will submit to the executive director a documented certification signed by an independent registered Professional Engineer verifying that post-closure care maintenance is complete in accordance with the Post-Closure Plan. The City of Arlington will also submit to the executive director, along with the certification for the final unit, a request for voluntary revocation of the Facility permit.

Once approved, the certification and all applicable documentation will be included in the site operating record.



8.0 COST ESTIMATE FOR POST-CLOSURE CARE

An estimate, in current dollars, of the cost of post-closure care maintenance and any corrective action as described in the Post-Closure Plan is included in Part III, Attachment 9, Appendix 9-B.