

# **MUNICIPAL SOLID WASTE PERMIT MAJOR AMENDMENT**

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## **PART III-ATTACHMENT H CLOSURE PLAN**



***NAME OF PROJECT: Beck Landfill***

***MSW PERMIT APPLICATION NO.: 1848A***

***OWNER: Nido, LTD (CN603075011)***

***OPERATOR: Beck Landfill (RN102310968)***

***CITY, COUNTY: Schertz, Guadalupe County***

***Major Amendment: September 2022***

Prepared by:



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FIGURE H1 – Final Closure Schedule

FIGURE H2 – Affidavit to the Public



## 1.0 INTRODUCTION

This closure plan provides the information required by 30 TAC §330.63(h) and §330.457. In accordance with 30 TAC §330.457(f)(1), a copy of the closure plan will be placed in the site operating record. Drawings that depict the final cover details are included in Part III, Attachment D8-Final Cover Quality Control Plan (FCQCP). Drawings that show the final contour plan of the entire landfill including internal drainage and side slopes plus the location of the 100-year floodplain are included in Part III, Attachment D1-Site Layout Plan. Cross sections are provided in Part III, Attachment D2 – Cross Sections. The closure plan also includes the procedures to be taken for sequential closure as areas are completed to design grades and final closure following final acceptance of waste.

## **2.0 FINAL COVER SYSTEM**

### **2.1 FINAL COVER SYSTEM DESIGN**

There are four approved final cover systems for the facility, these are shown on the final cover detail drawings in Part III, Attachment D8-Final Cover Quality Control Plan.

The final cover system will be maintained consistent with the procedures defined by Part III, Attachment C – Facility Surface Water Drainage Report, on areas of constructed final cover prior to facility closure. Following facility closure, the final cover system will be maintained consistent with the procedures defined in Part III, Attachment I – Postclosure Plan, Section 2.

### **2.2 INSTALLATION METHODS AND PROCEDURES**

The final cover system will be constructed in accordance with the construction details and specifications provided in Appendix Part III, Attachment D8-Final Cover Quality Control Plan. Testing and evaluation of the final cover system during construction will be in accordance with 30 TAC §330.457 and Attachment D8.

### **3.0 CLOSURE PROCEDURES**

#### **3.1 CLOSURE SEQUENCE**

In accordance with 30 TAC §330.457, Beck Landfill may conduct sequential closure as areas are fully completed to design grades of the landfill throughout the life of the landfill. The procedure allows for successive closure of fill areas by placement of final cover, construction of drainage and erosion control features, and establishment of vegetative cover. This procedure will be followed until all cells have been closed. All areas, regardless of time of closure, will be closed in accordance with the applicable regulations and the closure plan, and a Final Cover Evaluation Report (FCER) will be submitted to TCEQ documenting closure activities.

#### **3.2 CLOSURE DURING ACTIVE LIFE**

As described above, the final cover may be constructed as fill areas achieve the maximum design contours in that area. Should closure of the landfill become necessary at any time during the active life of the landfill, the following steps shall be taken:

- The final waste received will be placed and properly compacted.
- Cell excavations will be filled with suitable material, and the site will be graded to promote runoff and prevent ponding.
- The top of the landfill will be regraded and reshaped as needed to provide the appropriate slope for positive drainage.
- The final cover system will be constructed consistent with the details included in Appendix D8 – Final Cover Quality Control Plan.
- During the first growing season following application of final cover, the site will be vegetated with appropriate grasses to minimize erosion.
- A surface water management system will be constructed to minimize erosion.
- A closure certification will be prepared by a registered professional engineer and submitted to the TCEQ for approval.
- All proper notices and documentations will be filed with the appropriate agencies.

### 3.2.1 Estimate of Largest Area Requiring Final Cover

The largest area requiring final cover during the active life of the landfill is approximately 155 acres. The largest area requiring closure for the purposes of determining final closure construction cost is addressed in Part III, Attachment J – Cost Estimates for Closure and Postclosure Care.

### 3.2.2 Estimate of Maximum Inventory of Waste On-Site

The estimate of maximum inventory of waste and operational cover on site over the active life of the facility is approximately 26,417,117 cubic yards, which is the total volume available through this permit application. The site life calculations are provided in Part III, Attachment D4 – Site Life.

## 3.3 CLOSURE OF PROCESSING AND STORAGE AREAS

The storage and transfer units located within the facility boundary will include a wood waste processing area and recyclables collection area. The following actions shall be taken to close these facilities.

1. Remove all waste, waste residues, and any recovered materials. Facility units shall be dismantled and removed off-site or decontaminated.
2. Evacuate all material on-site (feedstock, in process, and processed) to an authorized facility and disinfect all contaminated water handling units, tipping areas, processing areas, and post-processing areas.
3. If there is evidence of a release from a municipal solid waste unit, the executive director may require an investigation into the nature and extent of the release and an assessment of measures necessary to correct an impact to groundwater.

## 4.0 CLOSURE SCHEDULE

### 4.1 FINAL COVER CONSTRUCTION

In accordance with 30 TAC§330.457 and §330.461, final cover may be placed in separate construction phases as areas reach the design top of waste grades and no additional waste is to be placed in that area. Final cover placement over completed portions of the site will consist of the following steps:

- Survey controls will be implemented to control the filling of solid waste to the bottom level of the daily/intermediate cover layer elevation.
- The final cover system layers will be constructed. Testing of the various components of the final cover system will be performed in accordance with Attachment D8.
- A final cover certification report and an as-built survey will be prepared by an independent registered professional engineer and submitted to the TCEQ for approval.
- The TCEQ-approved final cover certification report will be maintained in the site operating record and the final cover log will be updated to reflect the area where final cover has been placed. The TCEQ region office will also be notified where final cover has been placed.

### 4.2 FINAL CLOSURE ACTIVITIES

Once the facility has received its final waste, the facility will be closed consistent with 30 TAC §330.457. The final closure activities will be accomplished as outlined below.

- No later than 90 days prior to initiation of final facility closure, a public notice of facility closure that contains the name, address, and physical location of the facility, the permit number, and the last date of intended receipt of waste will be placed in the newspaper of the largest circulation in the vicinity of the facility. Beck Landfill will also make available an adequate number of copies of the approved final closure and post-closure plan for public access and review.
- No later than 90 days prior to initiation of final closure activities for a landfill unit, Beck Landfill will provide written notification to the executive director of the TCEQ of the intent to close and place this notice in the operating record.
- Following notification of the executive director of the TCEQ of final facility closure, a minimum of one sign will be posted at the main entrance and all other frequently used

points of access notifying all persons utilizing the facility of the closure date or date on which further receipt of waste is prohibited. In addition, barriers or gates will be installed at all access points following the closure date to adequately prevent unauthorized dumping of solid waste at the closed facility.

- Final closure activities will commence within 30 days after known final receipt of wastes, except as provided in Section 4.3.
- Final closure activities will be completed within 180 days of initiation of final closure activities, except as provided in Section 4.3.
- Within 10 days after completion of final closure activities, a certification signed by an independent licensed professional engineer will be submitted by registered mail to the TCEQ for review and approval. This certification will verify that final closure has been completed in accordance with the closure plan and will include all applicable documentation necessary for certification of final closure. The submittal to the executive director shall include all applicable documentation necessary for certification of closure. Once approved, this certification will be placed in the operating record.
- Within 10 days after completion of final closure activities of all landfill units at the facility, a certified copy of an Affidavit to the Public in a form provided by the Executive Director (see Figure H1.2 for a sample) will be submitted by registered mail to the TCEQ in accordance with §330.19 and §330.457(g). In addition, a certified notation will be recorded on the deed to the facility or some other instrument that will in perpetuity notify any potential purchaser of the property that the land has been used as a landfill facility and the use of the land is restricted according to the provisions specified in the Post-closure Care Plan, §330.955, §330.957(b)(2), and §330.957(m). Within 10 days after completion of final closure activities of the facility, a certified copy of the modified deed or other instrument will be submitted to the TCEQ and a copy placed in the operating record.

These steps in the closure process are depicted in Figure H1. Following receipt of the required final closure documents and an inspection report from the TCEQ region office verifying proper closure of the MSWLF facility, according to the approved closure plan, the executive director may acknowledge the termination of operation and closure of the facility and deem it properly



closed. Post-closure care maintenance will begin immediately upon the date of final closure as approved by the TCEQ.

#### **4.3 PROVISIONS FOR EXTENDING CLOSURE PERIOD**

If Beck Landfill has remaining capacity in a landfill unit and there is reasonable likelihood that the unit will receive additional wastes at the time of its closure, final closure activities will begin no later than one year after the most recent receipt of wastes. Any request for an extension beyond the one year deadline for the initiation of final closure will be submitted to the executive director for review and approval and will include all applicable documentation to demonstrate that the unit or site has the capacity to receive additional waste and that Beck Landfill has taken, and will continue to take, all steps necessary to prevent threats to human health and the environment.

If necessary, a request for an extension of the completion of final closure activities will be submitted to the executive director for approval. This request will include all applicable documentation necessary to demonstrate that final closure will, of necessity, take longer than 180 days and all steps have been taken and will continue to be taken to prevent threats to human health and the environment.

## 5.0 CLOSURE COST ESTIMATE

Consistent with 30 TAC §330.503(a), the estimated cost of hiring a third party to close the largest area of the landfill requiring final closure at any time during the active life of the unit is \$4,815,319. The detailed cost estimates are included in Part III, Attachment J – Cost Estimates for Closure and Post Closure Care.

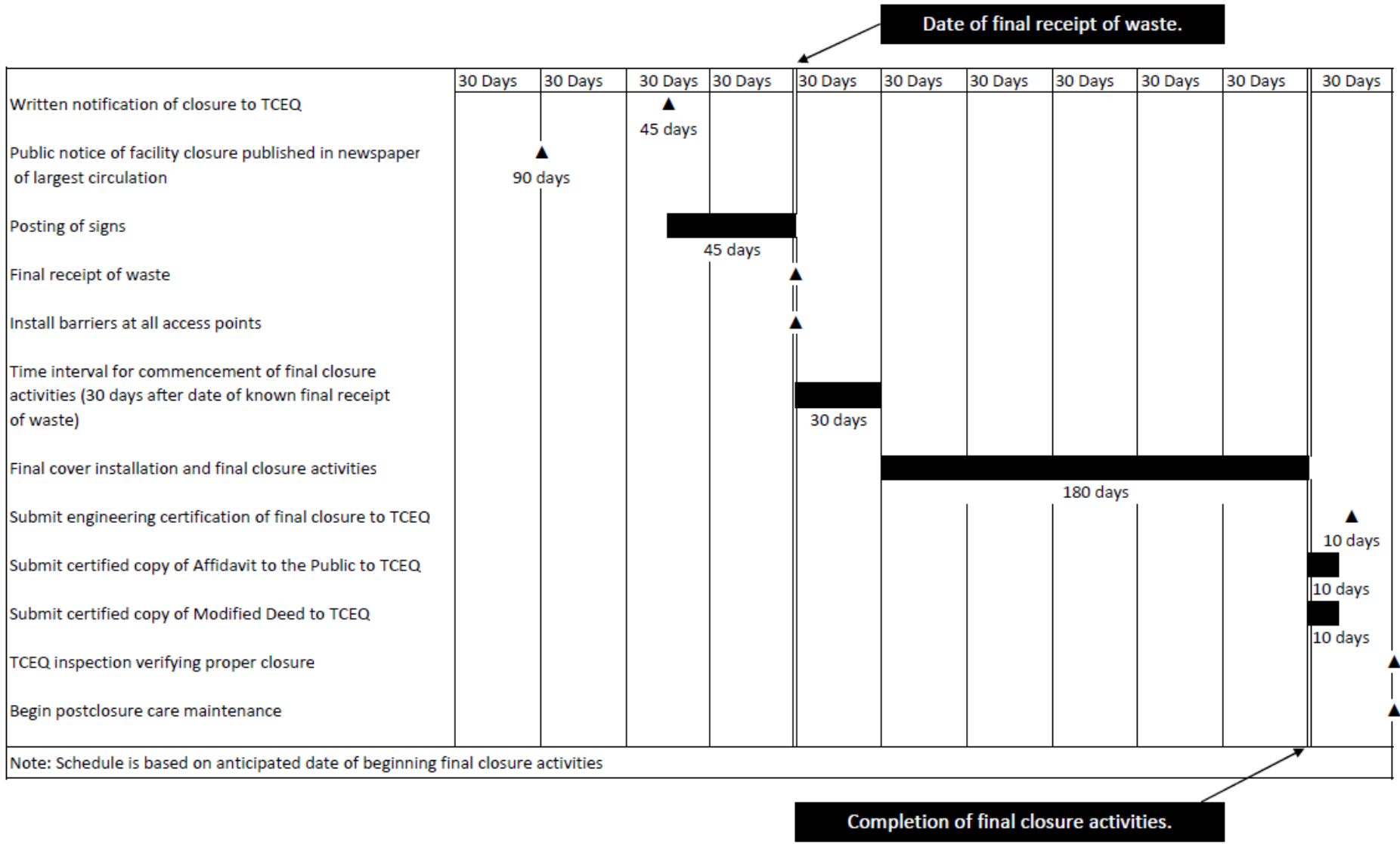
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**FIGURES**

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**Figure H1.1**  
**Final Closure Schedule**



**FIGURE H-2  
AFFIDAVIT TO THE PUBLIC**

MSW Permit No.: \_\_\_\_\_

Facility Name: \_\_\_\_\_

**Affidavit to the Public  
(30 TAC §330.19 Deed Recordation)**

State of Texas  
County of \_\_\_\_\_

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_  
\_\_\_\_\_ who, after being by me duly sworn, under oath states that he is the owner of  
record of that certain tract or parcel of land lying and being situated in \_\_\_\_\_  
County, Texas, and being more particularly described as follows:

(Insert metes and bounds legal description of property)

The undersigned further states that from the year \_\_\_\_\_ to the year \_\_\_\_\_ there was operated  
on the aforesaid tract of land a Municipal Solid Waste Disposal Site. Specifically, such operation was  
conducted on that portion of the aforesaid tract described as follows:

(Insert metes and bounds legal description of the portion of the tract used for solid  
waste disposal. Indicate if entire tract was used. Attach site plan as required.)

Further, the undersigned, \_\_\_\_\_ was the operator  
of such Municipal Solid Waste Disposal Site.

Notice is hereby provided to any future owner or user of the site to consult with the Texas Commission  
on Environmental Quality or successor agency prior to planning or initiating any activity involving the  
disturbance of the landfill cover or monitoring system.

Witness my/our hand(s) on this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Operator

Sworn to and subscribed before me on this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public, State of Texas

(SEAL)

\_\_\_\_\_  
County, Texas