

ATTACHMENT 1
GENERAL FACILITY DESIGN

NOVEMBER 7, 2013

Prepared for:

Post Oak Clean Green, Inc.
P.O. Box 1270
Seguin, Texas 78155

Prepared by:

Cook-Joyce, Inc.
812 West Eleventh Street
Austin, Texas 78701

TABLE OF CONTENTS

SECTION		PAGE
1.0	FACILITY ACCESS-330.63(b)(1)	1-1
2.0	WASTE MOVEMENT 330.63(b)(2).....	1-1
3.0	VENTILATION AND ODOR CONTROL 330.63(b)(2)(C)	1-2
3.1	LANDFILL SUPPORT AREA 330.63(b)(2)(D)-(I) and (b)(3)	1-3
4.0	SANITATION AND WATER POLLUTION CONTROL 330.63(b)(3), (4)	1-4
5.0	ENDANGERED SPECIES 330.63(b)(5)	1-5

LIST OF FIGURES

FIGURE

- 1-1 SITE LAYOUT PLAN
- 1-2 LANDFILL SUPPORT AREA LAYOUT
- 1-3 WASTE MOVEMENT SCHEMATIC

LIST OF APPENDICES

APPENDIX

- 1A CITIZEN CONVENIENCE AREA EQUIPMENT

ATTACHMENT 1

GENERAL FACILITY DESIGN 330.63 (b)

1.0 FACILITY ACCESS-330.63(b)(1)

Public access will be controlled to prevent unauthorized access, unauthorized and illegal dumping, and public exposure to hazards associated with landfill activities. Waste will be received into the Facility through a single main entrance road from FM 1150. The entrance road passes the landfill offices and leads to the gate house where facility personnel will control access, monitor vehicles and direct users to the appropriate waste and recyclable management areas. After leaving the gatehouse, signs, pavement markings and traffic control cones and barriers may be used to guide users to the appropriate management areas.

Access from other roads and parcels bordering the site will be controlled by means of a 4 ft barbed wire fence at the permit boundary with locked gates at any access points which will be used only by authorized personnel. Access from the entrance facilities and citizen convenience area to the remainder of the landfill and buffer zone areas will be controlled by a second interior fence constructed of minimum 4 ft high game wire 6ft high chain link fence. Gates will be positioned where the two fences cross the site entrance road. Entrance road gates will be closed when the waste facility is not open to the public and locked when no personnel are present. The locations of the gates, fencing and gate house are shown in Figures 1-1 or 1-2.

2.0 WASTE MOVEMENT 330.63(b)(2)

Waste is received at the main entrance of the facility and vehicles are initially monitored and directed at the gatehouse. Information signs concerning the landfill and its operations are posted at the entrance and gatehouse. The gate attendant screens, weighs and documents the incoming waste. The gate attendant will direct traffic to appropriate areas of the facility. Waste material that is suspected of containing an unauthorized waste or that exhibits a discrepancy with the load and waste documentation will be diverted to a screening area where additional inspection will occur. If the waste discrepancy is resolved, the vehicle may continue to the working face. If the discrepancy cannot be resolved, the load will be rejected. A waste movement schematic is shown in Figure 1-3 and summarizes the receipt, storage, processing, and disposal sequences for the various types of waste received at the Facility. General descriptions of waste movement for specific areas of the facility include:

Landfill Disposal

Commercial vehicles will be directed by the gate attendant to proceed to the landfill's working face. Upon arrival at the working face, drivers will be directed by facility personnel to promote orderly unloading. Wastes unloaded for disposal will be confined to as small an area as practical. The area will vary with the rate of incoming material, but will not be larger than 100 x 150 ft for normal operations.

Citizen Convenience Area

The general public with small waste loads will be directed to the citizen convenience area. Signs will be posted to identify the citizen convenience area as well as specific locations for off-loading various wastes and recyclables. These areas include but are not limited to large Item/white goods storage, scrap tire storage, municipal solid waste, recyclable automotive waste that includes lead acid batteries, used motor oil, oil filters, and antifreeze, and recyclable source separated consumer materials such as metals, glass, plastic, and paper products. Prohibited wastes will be identified on signs and will not be accepted for disposal or transfer at the citizen convenience area.

Vegetative Material

Vehicles carrying vegetative material will be directed to the mulch grinding area located within the permitted boundaries, excluding any buffers, drainage ways or easements. The woody and vegetative material will be mulched and may be used on landfill roads and surface areas to limit tracking of mud or control erosion or be sold for off-site use as a commercial product.

3.0 VENTILATION AND ODOR CONTROL 330.63(b)(2)(C)

Landfill disposal operations occur in open areas within the permitted disposal footprint; therefore, adequate ventilation is provided. Additionally, the landfill support area is operated in an open area within the permitted boundary of the Facility excluding buffer zones.

Odor control for the landfill support area is maintained by only managing putrescible wastes in the 3 roll off containers at the citizen convenience area and ensuring they are emptied when full and at the end of each work day. Additionally, Part IV of the application identifies procedures for odor control.

3.1 LANDFILL SUPPORT AREA 330.63(b)(2)(D)-(I) AND (b)(3)

The landfill support area will consist of the following areas to support landfill operations. Generalized layout and construction details for the citizen convenience area and equipment are shown in Figure 1-2 and Appendix 1A.

Administrative office: This building will be located within the permit boundary and will provide office space for administrative and supervisory staff, and file storage for the Operating Record.

Gate House: This building will be located in the center of the access road to the active waste management areas to allow observation and control of both incoming and outgoing traffic.

There will be 3 lanes for incoming traffic. The lane closest to the gate house is to be used by the public and commercial operators without previously approved contracts. The center lane will have a scale for use by commercial contract haulers with a contract for disposal. The lane furthest from the scale house is to allow landfill support and maintenance vehicles to enter the facility without being delayed by incoming customers. There will be two out bound lanes. One equipped with a scale to allow vehicles to weigh when leaving the facility and one for vehicles that do not need to weigh when exiting. The gate house will be staffed at all times while the landfill is open and will contain space for staff offices and records.

Citizen Convenience Area: The citizens convenience area is a location for the collection of wastes and recyclables outside of the area of landfill operations. The materials generated by the public that will be collected in this area are municipal solid waste, single stream recyclables, white goods, and automotive wastes that include used lead acid batteries, motor oil, motor oil filters, antifreeze, and tires. White goods will be collected and stored on an all-weather surface until a sufficient volume is accumulated to allow economic transport to an authorized metal processor. The area for storage of white goods will not exceed 20,350 sf (185'x110' pad). Automotive wastes generated by consumers will be collected in a covered area in commercially produced collection receptacles. Lead acid batteries will be placed on containment pallets to provide spill containment in the event of an acid leak from the batteries. Used tires will be placed in an enclosed 40-52 foot trailer that will be removed by a vendor when full. Consumer single stream recyclables will be placed in rolloff containers and removed by a vendor when they are full. The recyclables collected in these containers will typically be any post-consumer recyclable materials like paper, plastic, metals and glass. They will not include food waste or

putrescibles. Typical designs for collection receptacles/pads are shown in Appendix 1A. The receptacle designs are included as a general reference of typical containers to be used, and actual equipment may vary.

Three 40 cy rolloff containers will be positioned for the collection of small quantities of municipal solid waste. This allows for safer collection of waste from individuals and small generators by separating small private vehicles from large commercial vehicles that will be delivering waste to the landfill working face. The waste containers will be accessed from an elevated area equipped with wheel stops to allow customers to drop waste into the containers. The containers will be transported to the working face when full and at the end of each work day. No waste will remain in these containers longer than 24 hours.

Vehicle and Equipment Maintenance Building: This facility will allow on-site maintenance of operations vehicles and equipment. No wastes from off site will be managed in this building.

4.0 SANITATION AND WATER POLLUTION CONTROL 330.63(b)(3), (4)

The citizen convenience and mulch grinding areas contain waste handling and storage operations. These areas are served with all-weather access roads, and contain maneuvering and unloading areas with all-weather surfaces that can be graded or swept clean. The areas will be built up and graded to minimize surface water running onto, into or off areas containing waste.

The citizens convenience area will have an all-weather surface graded to control stormwater runoff and runoff from containers containing wastes or recyclables. Additionally, these areas will be maintained and operated to manage runoff and runoff during peak discharge from the 25 year storm event and will prevent the off site discharge of waste and feedstock material, including, but not limited to, in process or processed material.

The operations do not produce any processing wastewater. Adequate water will be used for dust suppression in the mulching operation but excess water that might result in runoff will not be used. Unintended or small amounts of spilled liquids that may be incidental to waste and recyclable handling at the citizen convenience area will be collected using absorbent materials and disposed as on-site generated solid waste. Water that may have contacted stored waste in the citizen convenience area will be contained close to its source, pumped out, and placed in

evaporation ponds or transferred to an authorized wastewater treatment facility. Contact water will not be discharged or released from the facility in a manner that will result in water pollution. The management of surface water, contaminated water and leachate is further discussed in Attachment 2 and Appendix 3C.

5.0 ENDANGERED SPECIES 330.63(B)(5)

A threatened/endangered species assessment was prepared by qualified biologists in November 2012 and is provided in Part II, Appendix 6. The assessment included both US Fish and Wildlife and Texas Parks and Wildlife Department requirements for endangered species assessment and compliance. No potential habitat for federally listed threatened or endangered species or designated critical habitat occurs within the permit area, and no federally listed threatened or endangered species have been observed on the property.

The property contains only marginally suitable habitat for two species, Texas horned lizard and Texas Tortoise. Neither of these species has been observed on the property in any of the site surveys. To ensure that construction and operation of the facility will not cause or contribute to the taking of a state listed endangered or threatened species, the applicant will meet recommendations of the Texas Parks and Wildlife Department.

FIGURES

Insert figure 1-1

Insert figure 1-2

Insert figure 1-3

APPENDIX 1A
CITIZEN CONVENIENCE AREA EQUIPMENT