

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
OFFICE OF POLLUTION CONTROL  
NONHAZARDOUS WASTE BRANCH  
P. O. BOX 2261  
JACKSON, MISSISSIPPI 39225-2261**

**NOTICE OF INTENT FOR OPERATING A COMPOSTING FACILITY WHICH  
WILL RECEIVE ONLY YARD WASTE, RUBBISH, OR SIMILAR SOLID WASTE**

**Part 1. General Data**

1. Name of facility: \_\_\_\_\_

2. Check type of operation:

- Will receive less than 5 tons of waste per day  
 Will receive 5 tons or more but less than 25 tons of waste per day  
 Will receive 25 tons or more of waste per day

3. Name, address and telephone number of applicant:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street address, P.O. Box, etc.)

\_\_\_\_\_  
(City) (State) (Zip)

Telephone Number: \_\_\_\_\_

4. Name, address, and telephone number of contract operator (if not applicable, so indicate):

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street address, P.O. Box, etc.)

\_\_\_\_\_  
(City) (State) (Zip)

Telephone number: \_\_\_\_\_

5. Name, address, and telephone number of the landowner (if same as applicant, so indicate):

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street address, P.O. Box, etc.)

\_\_\_\_\_  
(City) (State) (Zip)

Telephone number: \_\_\_\_\_

6. Attach a complete copy of the land deed, certified by the county clerk.
7. When the applicant intends to lease rather than own the land on which the site is located, a notarized statement signed by the owner of the land which acknowledges and concurs in the use of this property as a compost facility shall be attached to the application. (See Attachment A for form).
8. If the applicant or the contract operator (for operating commercial facilities only) is not a public agency, disclosure information must be included with the application, as required by Section 17-17-501, et seq., Mississippi Code Annotated. The disclosure statement must be submitted on forms supplied by the department.

**Part 2. Property Information and Maps**

9. The proposed facility will be located in \_\_\_\_\_ County.
10. The total property consists of \_\_\_\_\_ acres and lies in the following topographic sections:

<u>Section</u>	<u>Township</u>	<u>Range</u>
_____	_____	_____
_____	_____	_____

11. The actual area for the composting and storage operation (excluding buffer zones and other unused areas) consists of \_\_\_\_\_ acres.
12. Attach a copy of the United States Geological Survey (USGS) topographical quadrangle map of the area. The property boundaries of the site and the approximate composting area within the property boundary should be indicated on the map. The map may be a high quality photocopy.

13. Attach a site map, drawn to scale, showing the boundaries of the property boundaries, composting area, buffer distances to the property lines, waste unloading area, roads, storage areas for waste, compost, and residuals, and other physical characteristics of the site.

Is the buffer zone to the property line less than 200 feet on any side?

yes       no

If yes, attach a documentation of compliance with Section III.T. of the state regulations.

14. Attach a property owners map indicating the landowners immediately adjacent to the site and a list of the complete names and addresses of these landowners.

### **Part 3. Local Government Regulation/Solid Waste Management Plans**

15. Attach a letter from the appropriate County or City official confirming that the siting of the proposed facility will be in conformance with all local laws, regulations and ordinances, or that no such laws, regulations, or ordinances are applicable.
16. The proposed facility must be consistent with the approved local solid waste management plan, as submitted to the Department by the local solid waste management authority. Attach a copy of the page(s) of the plan which recognizes the operation of this facility.

### **Part 4. Demonstration of Need**

*Section 17-17-229, Mississippi Code Annotated, requires each permit application to contain a demonstration of need which shall include the items in italics below. This may be achieved by answering questions in items 17 - 19 below.*

17. *Verification that the facility for which the permit is sought meets the twenty year capacity needs identified in the county or regional nonhazardous solid waste management plan which shall take into account the quantities of municipal solid waste generated and the design capacities of existing facilities.*

If the proposed facility is included in and consistent with the local solid waste management plan, then the facility meets the twenty-year capacity needs. Is the proposed facility included in and consistent with the local solid waste management plan?  yes  no. If not, provide explanation on an attached sheet.

18. *Demonstration that the host jurisdiction and the jurisdiction generating the solid waste destined for the applicant's facility are actively involved in, and have a strategy for meeting the statewide waste minimization goal.*

*Certification that the proposed service area of the facility is consistent with a local nonhazardous solid waste management plan.*

Every approved local solid waste management plan has an approved waste minimization strategy included in the plan. If the jurisdiction (excluding out-of-state jurisdictions) generating the solid waste destined for the facility (the proposed service area) has an

approved local solid waste management plan, the first requirement above is met. The service area for the proposed facility must be consistent with the service area as specified in the approved local solid waste management plan for this facility. List below the service area of the facility (by city, county and/or state):

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19. *The extent to which the proposed facility is needed to replace other facilities.*

Many of the state's landfills were forced to close in 1993 and 1994 due to the Subtitle D regulations. Disposal at the remaining landfills became more expensive and in most cases, involved a long haul out of county. As a result, it has become economically and environmentally advantageous to find alternate or supplemental disposal/management methods for solid waste and rubbish waste. Is this situation representative for your proposed facility?  yes  no. If not, provide on an attached sheet a description of the extent to which the proposed facility is needed to replace other facilities.

**Part 5. Plan of Operation**

20. Attach a list of the type, description, and characteristics of the wastes to be composted, and an estimate of the quantities (in tons/day) of wastes expected to be managed at the proposed facility.
21. Attach a list of the anticipated sources of the wastes.
22. Attach a plan of operation, to include, at a minimum the following items:
- a. A description of site security and monitoring provisions at the site (e.g., gates, fences, etc). The plan must indicate that an attendant will be onsite at all times access to the site is unsecured.
  - b. Plans for prohibiting unauthorized wastes from disposal at the site. The placement of a waste receptacle shall normally be required for the disposal of unauthorized wastes and nonbiodegradable bags.
  - c. A narrative description of the operation from the point of waste unloading, through all steps of the composting operation, to the point of compost distribution.
  - d. Plan for fire prevention and actions to be taken in the event of an accidental fire.
  - e. A description of the type of residuals expected to be generated and how each will be stored and managed.
  - f. A description of surface water control features, including run-on, run-off, and

measures to prevent any washing or escape of waste from the property.

- g. The design and performance specifications of the principal components of the facility, such as shredders, separating equipment, aeration devices, screens, composting pads, curing areas, leachate recirculation systems, etc.
- h. Procedure for obtaining weight or volume measurements of waste entering the facility, any waste quantities removed as being unacceptable, quantities of compost produced, and quantities removed from the facility. Also provide a discussion of record keeping activities at the site.
- i. An estimate of the maximum storage capacity for all areas where waste, compost, and residuals, will be stored.
- j. A description of the composting method to be utilized, including estimated retention times, temperatures to be achieved and frequency of aeration.
- k. A description of the proposed disposition of the compost.

#### **Part 6. Siting Requirements For All Composting Sites**

- 23. Attach a letter from the U.S. Army Corps of Engineers regarding the wetlands determination of the proposed facility location. If the facility is within wetlands, also attach documentation of approval for the proposed composting operation, as required by federal law.
- 24. For proposed facilities located in southern Hancock, Harrison or Jackson counties, attach a letter from the Mississippi Department of Marine Resources regarding the coastal wetlands determination of the proposed facility location. If the facility is within coastal wetlands, also attach documentation of approval for the proposed composting operation, as required by state law.
- 25. Is the facility located in an area which may result in recurring washout of waste, such as within a drainage ditch, along the banks of a drainage channel, along the banks of any surface water, or similar area?  
 yes       no
- 26. Attach documentation from the U.S. Fish and Wildlife Service and/or the Mississippi Department of Wildlife, Fisheries and Parks stating that the operation of the facility in the proposed location will not affect a federally or state listed endangered or threatened species, or attach documentation that the proposed operation is in compliance with all statutes, rules and regulations within the jurisdiction of the U.S. Fish and Wildlife Service and the Mississippi Department of Wildlife, Fisheries and Parks concerning listed endangered or threatened species.

**Part 7. Additional Siting Requirements For Composting Facilities Which Will Receive 5 Tons Per Day Or More But Less Than 25 Tons Per Day Of Waste**

*(Note: Applicants for facilities receiving less than 5 tons per day of waste may skip to Part 9 on page 9)*

27. Is the proposed composting facility located within the 100 year floodplain?

yes       no

If yes, attach a demonstration that the facility will not restrict the flow of the 100 year flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health or the environment.

28. Will the proposed facility be located within 250 feet of the banks of any river, stream, lake, reservoir, or coastal water?

yes       no

29. Attach a letter from the Mississippi Department of Archives and History regarding the impact of the siting of the proposed operation to any cultural resource listed in, or eligible for listing in, the National Register of Historic Places. If the initial determination is that a significant and adverse impact will occur, attach documentation of appropriate mitigation.

30. Is the proposed facility located within 0.5 mile of a national, state, county or city designated park or an outdoor recreational area, such as a golf course or swimming pool, owned by a city, county or other public agency?

yes       no

If yes, attach a letter from the person responsible for managing the park or recreational area consenting to a smaller setback distance.

31. Is the proposed facility located within national forest land, a national wilderness area, or national wildlife refuge area, as designated by the appropriate federal agency?

yes       no

If yes, include written consent for the proposed operation from the agency responsible for managing such area.

32. Is the proposed facility located within a state wildlife management area, state game management area, or state natural area, as designated by the Mississippi Department of Wildlife, Fisheries and Parks?

yes       no

If yes, attach written consent for the proposed operation from the agency responsible for managing such area.

**Part 8. Additional Requirements For Composting Facilities Which Will Receive 25 Tons Or More Of Waste Per Day**

*(Note: Applicants for facilities receiving less than 25 tons of waste per day may skip to Part 9 on page 9)*

33. Compost facilities must be located in an area in which the uppermost aquifer is at least five feet below the base of the liner. The liner shall consist of either (1) adequate naturally occurring low permeability soils present immediately below the receiving, composting and curing areas to a depth of at least five feet, or (2) a constructed liner, such as a concrete pad, as approved by the department. If a natural liner is to be used, include natural geology information to include the following, as a minimum:

a. Logs of soil borings conducted in the proposed area. The borings shall be conducted/supervised by a qualified and experienced geological consultant, geologist or engineering firm. Continuous boring shall be completed through the interval intended for use as liner material. The borings should be to a depth sufficient to characterize the five feet liner and the zone 20 feet below the base of the liner (25 feet below the top of the liner), and should be as evenly spaced as possible throughout the proposed area. The minimum number of borings shall be as specified the chart below, unless otherwise approved by the department. Additional borings may be required for substantial sediment variation within the property. The boring logs shall be numbered, and shall include boring procedure, mean sea level elevations, depth to groundwater, and sediment classification of all soils. The liner should be clearly marked on each boring log. A topographical base map shall also be included noting the location of each boring log.

<u>Composting area acreage</u>	<u>Minimum number of borings</u>
15 or below	5
>15 to 25	7
>25 to 35	8
>35 to 50	10
>50	by department consultation

b. Liner permeability information. Permeability tests of the liner material shall be conducted if the sediment classification(s) indicate lack of adequate clay material. Samples should be taken for each varying liner material, but should generally not be less than one test per every three borings, as evenly spaced as possible. Any sampling techniques that would result in undisturbed and continual representation of liner material is acceptable. Generally, permeability of the liner material shall be no greater than  $1 \times 10^{-5}$  cm/sec.

c. A narrative description of the characteristics of the liner, based on the soil boring results.

d. Groundwater depth information. If groundwater is encountered, temporary piezometers should be installed in at least three borings with the well screen set in the same stratigraphic interval. Additional piezometers will be required for sites larger than 25 acres. Readings should be taken 24 hours after installation, and

groundwater depth should be carefully measured to ground surface elevations.

- e. A clear demonstration that the base of the liner (natural or constructed) is at least five feet above the uppermost aquifer within the naturally occurring soil. The demonstration should include a narrative discussion and cross-sectional diagrams showing the liner, watertable, and intended excavations.

**Part 9. Signature and Date**

I certify that the information provided in this application form is a true and correct representation of that which is requested.

I also confirm that I have received a copy, have read and understand those sections of the State of Mississippi Nonhazardous Waste Management Regulations applicable to composting facilities.

\_\_\_\_\_  
(Signature of applicant)

\_\_\_\_\_  
(Title, if applicable)

\_\_\_\_\_  
(Date)



**ATTACHMENT - A**

(Landowner should complete this form if land is to be leased)

**PROVIDE LEGAL DESCRIPTION OF THE PROPERTY**

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As owner of the above-described property, I hereby acknowledge that the property described in this permit application is leased for the purpose of operating a compost facility and that as owner of the property, I may be held jointly and severally responsible for maintenance of the site and all liabilities associated with the site upon termination of the operation. The lease agreement for the proposed property will expire on \_\_\_\_\_.

\_\_\_\_\_  
(Signature of the landowner)

\_\_\_\_\_  
(Date)