

STATE OF MISSISSIPPI SOLID WASTE MANAGEMENT PERMIT

TO OPERATE A SOLID WASTE MANAGEMENT FACILITY IN
ACCORDANCE WITH THE REGULATIONS GOVERNING
SOLID WASTE MANAGEMENT

THIS CERTIFIES THAT

Golden Triangle Regional Solid Waste Management Authority
has been granted permission to operate a solid waste management facility

located at

Sections 7 & 18, Township 19 North, Range 16 East, Clay County and
Sections 12 & 13, Township 19 North, Range 15 East, Oktibbeha County
under the name of

Golden Triangle Regional Landfill

This permit is issued in accordance with the provisions of the Mississippi
Code Annotated, and the regulations and guidelines adopted and promulgated
thereunder

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

**Issued: May 10, 2011
Expires: April 30, 2021**

Permit No. SW0130010432

CONDITIONS

A. EFFECT OF PERMIT

The permittee shall operate the solid waste management facility in accordance with the Mississippi Nonhazardous Waste Management Regulations (state regulations), applicable federal regulations, and conditions of this permit.

B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for noncompliance with the terms and conditions of the permit. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

C. SEVERABILITY

The provisions of the permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the solid waste law and regulations promulgated thereunder and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application.
2. Duty to Reapply. If the permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the permittee must submit a complete application for a new permit at least 180 days before this permit expires.
3. Duty to Mitigate. The permittee shall take all reasonable steps to minimize, prevent, or correct any adverse impact on human health or the environment resulting from noncompliance with this permit.
4. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all equipment and systems which are installed or used by the permittee to achieve compliance with the conditions of this permit and application as submitted and approved by the Department of Environmental Quality (Department).

5. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
6. **Inspection and Entry.** The permittee shall allow an authorized representative of the Department upon the presentation of credentials and other documents as may be required by law to:
 - (a) Enter on the permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;
 - (b) Have access to and copy during permitted operating hours any records that must be kept under the conditions of this permit;
 - (c) Inspect during permitted operating hours any facilities, equipment, practices, or operations regulated or required under this permit;
 - (d) Sample or monitor during permitted operating hours for the purposes of assuring permit compliance.
7. **Transfer of Permits.** This permit is not transferable to any person except after notice to and approval of the Mississippi Environmental Quality Permit Board. The Permit Board may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.
8. **Signature Requirements.** An application for the re-issuance, modification or transfer of this solid waste management permit and all permits required by this permit or other information requested by the Permit Board shall be signed as follows:
 - A. For a corporation: a president, vice-president, secretary, or treasurer of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation;
 - B. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
 - C. For a municipality, county, state, federal, or other public agency: either a principal executive officer or ranking elected official;

- D. The signature of a Duly Authorized Representative (DAR) shall be a valid signature under the state regulations, in lieu of the signatures described previously provided the following conditions are met:
- a. The DAR is an employee of the entity holding the solid waste management permit.
 - b. The DAR is identified to the Department by the ranking officer of the corporation, partnership, proprietorship, municipality, county, state, federal or other public agency.
 - c. The DAR is responsible for the overall management of the solid waste facility.

E. SITE SPECIFIC OPERATING CONDITIONS

1. Construction of landfill components shall be conducted by qualified and experienced personnel. The Department shall be notified of an approximate construction schedule at least one week prior to liner and final cover construction activities.
2. Construction of the landfill shall be in accordance with the following, unless an alternate method is approved by the Department:
 - a. The insitu sub-base shall be inspected for cracks, large stones, other protrusions, and for soil material which would not be suitable buffer materials. Unsuitable materials shall be removed and replaced with buffer material having a permeability equal to or less than 1×10^{-6} cm/sec. The surface shall be compact, smooth, uniform, and free of desiccation cracks.
 - b. Prior to placement of the soil liner, the surface of the prepared sub-base shall be scarified for proper bonding with the liner. The liner shall be placed in 6 inch lifts, evenly compacted to the density and moisture content required. Placement of the liner along the side slopes shall be in lifts along the slope, not in horizontal lifts. Between lifts, the surface shall be scarified for proper bonding.
 - c. In construction/preparation of the buffer sub-base and the soil liner, the surface shall not be allowed to dry and crack before placement of the next layer. If desiccation cracks form, the surface shall be re-wetted, re-homogenized and re-compacted to the depth of the cracks before placement of the succeeding layer.

- d. Field density, permeability, and moisture content tests shall be conducted in accordance with the approved plan. Test holes in the soil liner shall be sealed with bentonite, or another method as approved by the Department.
3. Prior to the disposal of solid waste in any unused portion of the permitted disposal area:
- a. All borings drilled on the site in preparation of the permit application, which will not be converted to monitoring or supply wells, shall be properly plugged and abandoned.
 - b. A Quality Assurance/Quality Control (QA/QC) report shall be submitted for each constructed disposal cell, in accordance with the Mississippi Nonhazardous Solid Waste Management Regulations (Regulations), the approved plans and this permit.
 - c. The first groundwater sampling event for newly installed groundwater monitoring wells shall be conducted in accordance with the Regulations and the approved groundwater monitoring plan.
 - d. Documentation or proof of the established financial assurance mechanism for closure and post-closure costs shall be submitted to the Department with the annual report required by this permit and the Regulations. Financial assurance shall be maintained for closure and post-closure costs, as required by State law and the Regulations.
 - e. Along the necessary areas of the northern property boundary and the entire length of the eastern property boundary, the permittee shall establish and/or maintain adequate screening, whether natural or artificial, to restrict the offsite view of the facility. Screening shall be maintained throughout the life of the facility.
4. Prior to the construction of cells 16 through 26, a minimum of one groundwater monitoring well on the northeast side and one on the south side of the permitted disposal area shall be installed. This shall include, at a minimum, the submittal of an updated installation report to the Department for the groundwater monitoring system, to include methodology, well specifications, depths and surveyed locations.

5. Prior to construction of cells 19 through 26, a minimum of one groundwater monitoring well shall be installed on the east side of the permitted disposal area. This shall include, at a minimum, the submittal of an updated installation report to the Department for the groundwater monitoring system, to include methodology, well specifications, depths and surveyed locations.
6. The disposal of solid waste shall be restricted to the approved permitted areas for Cells 1 through 26, consisting of approximately 288 acres, and shall be within the final approved elevations of approximately 214 feet above the lowest natural grade elevation. Property line setback distances as indicated in the permit application shall be maintained.
7. At least two weeks prior to the placement of solid waste in a newly constructed cell within the permitted area, a construction QA/QC report shall be submitted to the Department. Such report shall include a certification from an independent Mississippi registered professional engineer that the disposal area has been constructed in accordance with the approved design plans and Regulations. The report shall also include field logs, results of testing, sub-grade survey, top of liner survey, and construction testing methods.
8. Modification to this permit shall be required prior to a vertical or horizontal expansion of the facility or a significant change in the method of waste management at the facility.
9. The permitted operating hours shall be from 7:00 AM to 4:00 PM Monday through Friday and 8:00 AM to 12:00 PM on Saturdays, unless otherwise approved by the Department.
10. The permittee shall provide proper hazardous and PCB waste identification training to applicable facility personnel to the satisfaction of the Department.
11. Compliance with operator certification requirements in accordance with the Regulations shall be maintained.
12. Unless otherwise approved, the landfill shall be operated by employees of the permittee, as specified in the permit application. Prior to the operation of the facility by an private entity, a complete disclosure statement for the entity shall be submitted to and approved by the Mississippi Environmental Quality Permit Board as established in Section 17-17-501 et seq., Mississippi Code Annotated and all regulations promulgated pursuant thereto.

13. Construction, operation, closure and post-closure activities of the facility shall be conducted in accordance with the approved plans, as submitted to the Department.
14. The service area of the facility shall be consistent with the service area listed in the approved Golden Triangle Regional Solid Waste Management Plan. Solid waste generated in areas not within the approved service area shall be prohibited from disposal, unless specifically approved by the Commission on Environmental Quality.
15. Security shall be maintained at the facility site to prohibit unauthorized access and disposal. Access to the site shall be secured or locked when the site is closed and when no attendant is on the site.
16. Regulated asbestos containing material shall not be accepted for disposal, unless an operating plan and demonstration of compliance with EPA NESHAP regulations 40 CFR Part 61.153 and 61.154 is submitted to and approved by the Department.
17. Infectious medical wastes, as defined by the Mississippi Department of Health, generated by established medical facilities, shall be prohibited from disposal unless such wastes have been satisfactorily rendered non-infectious and placed in special bags or other appropriate packaging.
18. Vehicles entering and exiting the facility shall be operated and maintained to prevent loss of liquids or solid waste material. Vehicles failing to meet this requirement, after one warning to the owner or driver, shall be refused acceptance at the site until the situation is remedied.
19. If determined necessary by the Department, the use of a wheel wash or other appropriate measures to prevent vehicles from tracking mud, trash or other debris from the facility property shall be required.
20. All solid waste shall be covered each day before the close of operations, or more frequently, if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging. Cover shall consist of at least six inches of earthen material or an alternate approved method of cover. An alternate method of cover may be used if a specific description and plan of operation is submitted to and approved by the Department.
21. Litter and scattered debris on the landfill area and along the facility roads shall be collected every operating day and returned to the active disposal area.

22. Portions of earthen cover shall be removed from each lift, without causing odor problems, immediately prior to placement of the next waste lift. The amount of soil removed should be of an adequate amount to facilitate downward movement of leachate to the collection system.
23. Filled areas of the landfill, which have remaining capacity and which will not receive waste within 30 days, shall receive an intermediate cover of twelve (12) inches of earthen cover. An alternate cover system may be approved by the Department.
24. The condition of daily, intermediate, and final earthen cover shall be routinely inspected by landfill personnel during the operation of the facility. Erosion, cracks, ponding, leachate outbreaks, and other similar problems shall be immediately repaired.
25. Final cover shall be placed on completed areas of the landfill in accordance with the Regulations and the approved plans.
26. Burning or smoldering wastes accepted at the site shall be extinguished in an area separate from the active disposal area and shall not be unloaded onto the working face until all smoldering debris has been adequately extinguished. Such wastes, however, shall not be left uncovered at the close of operations for each operating day.
27. Should a fire occur, the operator shall immediately take action to extinguish the fire and shall notify the Department within 24 hours of the incident and shall prepare and submit a written report of the incident to the Department within 5 working days.
28. Sedimentation ponds shall be constructed and maintained to collect and control at least the water volume resulting from a 24 hour, 25 year storm event. Periodic dredging shall be conducted to maintain proper elevations.
29. The landfill shall be constructed, operated, and maintained with berms, ditches, or other means such that uncontaminated surface water is directed around and away from the developed landfill area. Additionally, each disposal cell shall be constructed and maintained to direct uncontaminated surface water around and away from the active disposal area. Uncontaminated surface water run-off from construction activities, from areas with daily or intermediate cover, or from areas with final cover not having established vegetation, shall be diverted to an onsite sediment pond.
30. Surface water contaminated by contact with solid waste and surface leachate flowing from filled areas of the landfill shall be collected and managed as leachate. Surface leachate and contaminated surface water shall not be allowed to flow offsite of the landfill property.

31. Leachate collection systems shall be cleaned, maintained, and pumped as necessary to properly manage leachate collection. The depth of leachate over the liner, excluding trenches and sumps, shall not exceed 30 cm. Measurements of leachate head shall be made daily. Should any measurement indicate a head of 30 cm or greater on the liner, the permittee shall contact the Department immediately. Records shall be kept of daily measurements, quantities pumped, cleaning, maintenance, and any analysis and method of disposal.
32. Unless otherwise approved by the Department, the spillage recovery pipe valve shall remain closed except when a leachate spill occurs on the tanker trailer pad.
33. Leachate recirculation, as well as the acceptance of gas condensate for disposal within the permitted landfill disposal area shall be prohibited, unless otherwise approved by the Department.
34. Groundwater monitoring shall be conducted at the facility in accordance with state and federal regulations. Monitoring shall be conducted semi-annually according to the following schedule:

Monitoring Period:

Report Due:

January – June

August 31

July – December

March 1 of the following calendar year

Samples may be taken at any time during the monitoring period. However, all required sampling events (except background sampling events) shall be at least four months apart. The following reports and records shall be retained in the operating record and a copy shall be submitted to the Department in accordance with the schedule established within this condition:

- a. The dates, exact location, and the time of sampling;
- b. The individual who performed the sampling;
- c. Results of groundwater level measurements and a map indicating direction of flow;
- d. The date(s) laboratory analyses were performed;
- e. The individual(s) who performed the analyses;
- f. The analytical techniques or methods used;

- g. The results of such analyses, provided by the laboratory;
 - h. The results of such analyses, prepared on a form provided or approved by the Department;
 - i. The statistical comparison of the analyses;
 - j. A determination of statistically significant increase(s); and
 - k. Chain of custody forms.
35. The permittee shall install additional groundwater monitoring wells, if determined necessary by the Department.
36. Groundwater assessment monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with the Regulations.
37. Methane monitoring, and corrective action, if necessary, shall be conducted at the facility in accordance with the Regulations. Methane monitoring shall be performed at permanent methane monitoring wells. The number and location of the methane monitoring wells shall be as previously approved by the Department. Monitoring shall be conducted quarterly, unless otherwise directed by the Department, according to the following schedule:

<u>Monitoring Period:</u>	<u>Report Due:</u>
January – March	May 30
April – June	August 31
July – September	November 29
October – December	March 1 (of the following calendar year)

Measurements may be taken at any time during the monitoring period. However, all required monitoring events shall be at least 45 days apart. The following reports and records shall be retained in the operating record and a copy shall be submitted to the Department in accordance with the schedule established within this condition:

- a. The dates, exact location and time of measurements;
- b. The individual(s) who performed the measurements; and
- c. The results of methane level measurements, for all monitoring wells and for facility structures. Results shall be submitted on forms provided or approved by the Department.

38. Operation of the facility shall be conducted in accordance with all applicable requirements of the U.S. Army Corps of Engineers, and the Mississippi Department of Agriculture and Commerce, regarding wetlands and scales, respectively.
39. Mining of solid wastes shall be prohibited unless plans are submitted to and approved by the Department.
40. All recyclable materials which are removed from the wastes received at the facility shall be collected and stored in a manner to prevent stormwater contamination located outside of the permitted disposal area. Such recyclable materials shall be transferred to a recycling operation monthly, unless otherwise directed by the Department.
41. The permittee shall maintain a record of the recyclable materials removed from the accepted wastes and transferred as described in Condition E.39 of this permit. The record shall include a description of the recyclable materials, the tonnage, date of transfer and the receiving operation.
42. An annual report shall be submitted to the Department each calendar year no later than February 28th. The annual report shall include data collected during the preceding calendar year. The report shall include the items listed below:
 - a. Aggregate information on the types, amounts, and sources of waste received during the calendar year. Listed types should be divided minimally into residential and non-residential. The sources of the waste should have cities and/or counties listed individually;
 - b. A contour drawing of the landfill indicating areas filled during the reporting year and total areas filled;
 - c. The estimated remaining capacity, in terms of volume or tons of waste;
 - d. An updated disclosure state for the contract operator, if applicable. If all information from the previously submitted disclosure statement is unchanged, a letter stating such may be included in lieu of an updated disclosure statement;
 - e. An adjusted closure and post-closure cost estimate;
 - f. An audit of the financial assurance document and the end-of-year value of the financial assurance mechanism;
 - g. A modified financial assurance document, if necessary;

- h. Documentation demonstrating that the facility personnel have been properly trained to recognize regulated hazardous waste and PCB waste;
 - i. Documentation of compliance with operator certification requirements in accordance with the Regulations.
- 43. Any significant changes or modifications to the approved closure or post-closure plan shall be submitted to and approved by the Department prior to implementation.
- 44. Upon completion of disposal activities within cells 1 -26, a surveyed landfill drawing shall be submitted to the Department showing the total acreage of disposal area, final contours and the boundaries of waste disposal.
- 45. The permittee shall continue to maintain, construct and operate the gas collection and control system as required by the air pollution control permit issued for this facility in conjunction with the requirements of the Mississippi Commission on Environmental Quality Regulations APC-S-1 and APC-S-2.
- 46. The permittee shall comply with the requirements of the NPDES Stormwater permit issued for this facility in accordance with the Mississippi Wastewater Regulations.