

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

City of Canton

has been granted permission to operate a solid waste management facility

located at

Section 26 and Township 9 North and Range 2 East
Madison County

under the name of

Canton Sanitary 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:
Expires:**

Permit No. SW04501B0378

CONDITIONS

A. EFFECT OF PERMIT

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

B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for non-compliance 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 non-compliance on the part of the permittee does not stay the applicability or enforceability of any permit condition herein.

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 of the conditions of this permit. Any permit non-compliance 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 desires to continue an activity authorized by this permit after the expiration date of this permit, the permittee shall submit a complete application for a new permit at least 180 days before the expiration date of this permit.

3. Duty to Mitigate.

The permittee shall implement all reasonable measures to minimize or correct any adverse impacts on the environment resulting from non-compliance with this permit.

4. **Duty to Provide Information.**

The permittee shall furnish to the Mississippi Department of Environmental Quality (Department), within a reasonable time, any relevant information that it may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
5. **Proper Operation and Maintenance.**

The permittee shall at all times properly operate and maintain all equipment and systems that are installed or utilized by the permittee to achieve compliance with the conditions of this permit and the application as submitted and approved by the Department.
6. **Inspection and Entry.**

The permittee shall allow an authorized representative of the Department, upon 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 at reasonable times any records that must be kept under the conditions of this permit;
 - (c) Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under this permit;
 - (d) Sample or monitor at reasonable times for the purposes of assuring permit compliance.
7. **Anticipated Noncompliance.**

The permittee shall give thirty (30) days notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with the requirements of this permit or the Mississippi Nonhazardous Waste Management Regulations.
8. **Transfer of Permits.**

This permit is not transferable to any person except after notice to and approval of the Mississippi Environmental Quality Permit Board (Permit Board). The Permit Board may require modification or revocation and reissuance of this permit to change the name of the permittee and incorporate such other requirements as may be necessary.
9. **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 of 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:
 1. The DAR is an employee of the entity holding the solid waste management permit.
 2. The DAR is identified to the Department by the ranking officer of the corporation, partnership, proprietorship, municipality, county, state, federal or other public agency.
 3. The DAR is responsible for the overall management of the solid waste facility.

10. Property Rights

It is the responsibility of the permittee to possess or acquire a sufficient interest in or right to the use of the property including access route. The issuance of this permit does not convey any property rights or interest in either real or personal property; nor does it authorize any injury to private property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of Federal, State or local laws or regulations.

E. SITE SPECIFIC OPERATING CONDITIONS

1. The disposal of solid waste shall be restricted to the approved permitted area consisting of approximately 49 acres and limited to a final height, including two (2) feet of final earthen cover, of 300 feet above mean sea level for Cells 2 and 3. The final height of any and all other cells governed by this permit shall be limited to a final height including two (2) feet of earthen cover, of 265 feet above mean sea level. Property line setback distances, as indicated in the permit application, shall be maintained.
2. If the permittee executes a contract with a private contractor to operate the facility, the permittee shall comply with the following requirements prior to the private contractor beginning operation of the facility:
 - (a) A complete disclosure statement for the private contractor shall be submitted to and approved by the Department as established by State law and regulations, and
 - (b) A copy of the executed contract between the private contractor and the permittee shall be submitted to and approved by the Department. Any new contract or change in the existing contract

concerning operational control of the facility shall be submitted to the Department for approval prior to execution of the new or modified contract.

3. Construction, operation, closure and post-closure activities at this facility shall be conducted in accordance with the approved plans, as submitted to the Department.
4. 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.
5. 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 that would not be suitable buffer material. 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 six (6) inch nominal lifts. Each lift shall be evenly compacted to the density and moisture content required. Placement of the soil liner on the side slopes shall be in lifts along the slope, not in horizontal lifts. Between each lift, the surface shall be scarified for proper bonding.
 - (c) In construction and preparation of the buffer sub-base and the soil liner, the surface shall not be allowed to dry out 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 approved by the Department.

- (e) Prior to placement of the geomembrane, the soil liner shall be smooth, uniform and free from protrusions or cracks. During and after installation activities, the geomembrane shall be protected from damage (e.g. heavy equipment, tearing, puncturing, exposure to the sun, etc.). Field seams shall be oriented vertically along the side slopes (i.e. top to bottom of side slope). No later than six months after liner installation, the protective layer shall be placed over the geomembrane, and properly maintained until waste is placed over the area.
- 6. At least two weeks prior to the placement of solid waste in a newly constructed disposal area, a construction quality assurance report shall be submitted to the Department. The construction quality assurance report shall contain a certification from an independent Mississippi registered professional engineer indicating that the area has been constructed according to the approved design plans and State Regulations. The report shall also include field logs, results of testing, sub-grade survey, top of liner survey, and construction testing methods.
- 7. All surveys completed in accordance with the requirements of this solid waste management permit shall be conducted utilizing a grid pattern.
- 8. Modification of 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.
- 9. The permittee shall insure that all facility personnel are properly trained to recognize hazardous waste and polychlorinated biphenyl wastes.
- 10. Security shall be maintained at the facility to prohibit all unauthorized access and disposal. Access to the site shall be secured and/or locked when the site is closed or when no attendant is on site.
- 11. Regulated asbestos containing material shall not be accepted for disposal, unless a plan of operation and a demonstration of compliance with EPA NESHAP regulations 40 CFR 61.153 and 61.154 – Reporting and Standards for Active Waste Disposal Sites, is submitted to and approved by the Department.
- 12. Excavation of waste for the disposal of asbestos shall occur only in areas where the waste has been in place for less than 72 hours.
- 13. Infectious medical wastes, as defined by the Mississippi Department of Health, shall be prohibited from disposal unless such wastes have been satisfactorily rendered non-infectious. Medical sharps shall be destroyed and rendered harmless prior to acceptance and placement at the facility.
- 14. Vehicles entering 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 and/or driver, shall be refused acceptance at the facility until the situation is remedied.

15. 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 (6) 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.
16. The entire facility shall be maintained free from litter and scattered debris. All litter and scattered debris shall be collected every operating day and returned to the active disposal area.
17. Portions of the daily earthen cover may be removed at the beginning of each working day to facilitate downward movement of leachate to the collection system.
18. Filled areas of the landfill, which have remaining capacity and will not receive waste within the next thirty (30) days, shall receive an intermediate earthen cover of twelve (12) inches. An alternate intermediate cover system may be approved by the Department.
19. Final cover shall be placed on completed areas of the landfill in accordance with State Regulations and the approved plans.
20. The condition of daily, intermediate, and final earthen cover shall be inspected routinely by landfill personnel during the active life of the facility. Erosion, cracks, ponding, leachate outbreaks, and any other problems identified shall be repaired within twenty-four (24) hours.
21. Burning or smoldering wastes accepted at the facility shall be extinguished in an area specified by the owner/operator and approved by the Department separate from all disposal areas and shall not be placed in the active disposal area until all smoldering debris has been adequately extinguished. Such wastes shall not be left uncovered at the close of operations.
22. Should a fire occur, the owner and/or operator shall take immediate action to extinguish the fire and shall notify the Department within twenty-four (24) hours. Initial Department notification may consist of either written or verbal methods. Written correspondence regarding the incident shall be submitted within five (5) working days of the incident.
23. The landfill shall be constructed, operated, and maintained with earthen berms, ditches, or other means such that uncontaminated surface water run-off is directed around and away from the developed landfill area. Additionally, each cell shall be constructed and maintained to direct uncontaminated surface water run-off around and away from the active disposal area.
24. Uncontaminated surface water run-off from construction activities and from areas without established vegetation shall be diverted to an onsite sedimentation basin.

25. The sedimentation basins shall be constructed and maintained to collect and control, at a minimum, the water volume resulting from a twenty-four (24) hour, twenty-five (25) year storm event. Periodic dredging shall be conducted to maintain proper elevations and the required capacity.
26. Surface water run-off contaminated by contact with solid waste and leachate flowing from filled areas of the landfill shall be collected and managed as leachate. Surface leachate and contaminated surface water run-off shall not be allowed to flow offsite of the landfill property or through the storm water discharge points. Should leachate flow out of the permitted disposal area and into onsite stormwater conveyances or onsite sedimentation basins, the Department shall be notified within five (5) working days.
27. The leachate collection system shall be operated as follows:
 - (a) The leachate collection system of pipes, trenches and sumps shall be cleaned, maintained and pumped to ensure proper leachate collection.
 - (b) The depth of leachate over the liner, excluding trenches and sumps, shall not exceed 30 cm.
 - (c) Leachate head measurements shall be made and/or monitored daily.
 - (d) Any measurement that indicates a head of 30 cm or greater on the liner or any electronic pumping equipment failure shall be reported to the Department immediately. Written correspondence shall be submitted within five (5) working days of non-compliance.
 - (e) Records shall be kept of daily measurements, quantities pumped, cleaning, maintenance, analyses and method of disposal.
28. The acceptance of offsite leachate and condensate for disposal shall be prohibited.
29. Leachate and gas condensate shall not be recirculated into the landfill unless an operational plan, including detailed drawings, is submitted to and approved by the Department. This authorization may be modified, amended or revoked if the Department determines that leachate recirculation operations at this facility cause compliance or odor problems or cannot be implemented and maintained such that human health and the environment are protected.
30. Groundwater monitoring shall be conducted at the facility in accordance with State and Federal regulations. Monitoring shall be conducted semi-annually, unless otherwise directed by the Department. The semi-annual groundwater monitoring periods shall be January through June and July through December.
31. Samples may be obtained at any time during the monitoring period, however, all required sampling events, excluding background events, shall be at least four months apart.

32. Reports and records for each groundwater sampling event shall be retained in the operating record, and a copy shall be submitted to the Department on or before February 28th of each year for the preceding calendar year sampling events and shall consist of the following:
 - (a) The dates, exact location, and time of sampling;
 - (b) Identification of individuals who performed the sampling;
 - (c) Results of groundwater level measurements and a map indicating the direction of groundwater flow;
 - (d) The date(s) laboratory analyses were performed;
 - (e) Identification of individuals who performed the analyses;
 - (f) The analytical techniques or methods utilized;
 - (g) The results of such analyses, prepared according to industry standards or as directed by the Department;
 - (h) The statistical report of the analyses;
 - (i) A determination of statistically significant increases; and
 - (j) The chain of custody forms.
33. At any time a statistically significant increase is identified for any parameter listed in Appendix I of 40 CFR Part 258, the required report outlined in Section E.32 of this permit shall be submitted to the Department within five (5) working days, unless otherwise directed by the Department.
34. The permittee shall install additional groundwater monitoring wells, if determined necessary by the Department.
35. Groundwater assessment monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with State and Federal regulations.
36. The number and location of the permanent monitoring wells shall be as approved by the Department. Methane monitoring shall be conducted quarterly, unless otherwise directed by the Department. Quarterly periods shall be defined as the following:
 - (a) First Quarter: January through March;
 - (b) Second Quarter: April through June;
 - (c) Third Quarter: July through September; and,
 - (d) Fourth Quarter: October through December.
37. Methane monitoring of the permanent monitoring wells at the property boundaries, and corrective actions, if necessary, shall be conducted at the facility in accordance with State Regulations.
38. Measurements may be taken at any time during the monitoring period, however, all required monitoring events shall be at least forty-five (45) days apart.

39. Reports and records for each methane monitoring event shall be retained in the operating record, and a copy shall be submitted to the Department on or before February 28th of each year for the preceding calendar year sampling events and shall consist of the following:
 - (a) The dates, exact location and time of measurements;
 - (b) Identification of individuals who performed the measurements; and
 - (c) The results of the methane monitoring for all monitoring wells and facility structures. Results shall be submitted on a form provided or approved by the Department.
40. At any time methane monitoring indicates an exceedance of the lower explosive limit for methane at the facility boundaries or 25% of the lower explosive limit for methane in facility structures, the required report outlined in Section E.39 of this permit shall be submitted to the Department within five (5) working days and verbal notification provided to the Department within twenty-four (24) hours of the monitoring event.
41. At any time methane monitoring indicates an exceedance, the permittee shall prepare, submit and implement a remediation plan for the methane gas releases within sixty (60) days of detection. The plan shall describe the nature and extent of the methane release and the proposed remedial method.
42. Operations of the facility shall be conducted in accordance with all applicable requirements of the U.S. Army Corps of Engineers and the U.S. Fish and Wildlife Service.
43. Excavation, mining and/or removal of solid waste shall be prohibited unless plans are submitted to and approved by the Department.
44. Upon completion of disposal activities within the approved disposal area, a surveyed landfill drawing shall be submitted within sixty (60) days of final waste acceptance to the Department indicating the total acreage of the disposal area, the final contours and the boundaries of waste disposal.
45. Any significant changes to the approved closure and/or post-closure plan must be submitted to the Department for approval before implementation.
46. An annual report shall be submitted to the Department each year on or before February 28th providing information regarding the operations of the preceding calendar year. The report shall include the following items:
 - (a) Aggregate information on the types, amounts, and sources of wastes received during the previous calendar year. Listed types shall be divided minimally into residential and non-residential. The sources of waste shall have cities and/or counties listed individually;
 - (b) A contour drawing of the landfill showing areas filled during the reporting year and total areas filled;
 - (c) Estimated remaining capacity, in terms of volume or tons of waste;

- (d) An updated disclosure statement for the permittee and/or contract operator, if required. 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, if required;
- (g) A modified financial assurance document, if required;
- (h) Documentation demonstrating that the facility personnel have been properly trained to recognize regulated hazardous and PCB wastes;
- (i) Documentation of compliance with operator certification requirements in accordance with State Regulations.