



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
Dee Freeman, Secretary

December 8, 2010

Mr. Noel Lyons, President
McGill Environmental Systems, Inc.
634 Christian Chapel Church Road
New Hill, NC 27562

Subject: McGill Environmental System at Merry Oaks
A Large Type-4 Solid Waste Composting Facility
Permit Application and Operating Manual
Facility Permit No.: SWC-19-06

Dear Mr. Lyons:

Enclosed is your permit renewal to operate a Large, Type 4 Solid Waste Compost Facility at Merry Oaks, Chatham County, North Carolina. Please carefully read all permit conditions. The operation manual submitted with your application has been incorporated into your permit. Your permit number is 19-06 with an expiration date of December 8, 2015.

Mr. Robert Hearn, Waste Management Environmental Senior Specialist, will be responsible for facility inspections. Mr. Hearn can be contacted at 919-508-8533. If you have any questions please feel free to contact our staff engineer Mr. Zi-Qiang Chen, Ph.D. at 919-508-8523, or myself at 919-508-8508.

Sincerely,

Michael E. Scott, Supervisor
Composting & Land Application Branch

cc: Gary MacConnell, P.E., MacConnell & Asso., 1903 N. Harrison Ave., Cary, NC 27513
Robert Hearn, NCDWM Field Operations Branch
Zi-Qiang Chen, Ph.D., Environmental Engineer II
DWM/SWS/CLA/PERMIT

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
1646 MAIL SERVICE CENTER, RALEIGH, NORTH CAROLINA 27699-1646

McGill Environmental Systems, Inc.

is hereby issued a permit to operate a

LARGE, TYPE 4 SOLID WASTE COMPOST FACILITY

at 634 Christian Chapel Church Road, New Hill, NC 27562

Permit Number SWC-19-06

in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated there under and subject to the conditions set forth in this permit.

12/8/10
Date


Michael E. Scott, Branch Head
Solid Waste Section

Permit Conditions:

1. Operation and maintenance of this facility shall be in accordance with the Solid Waste Compost Rules (15A NCAC 13B, Section .1400), the Permit Application and the Operation and Maintenance Manual submitted with the permit application. Failure to comply may result in compliance actions or permit revocation.
2. This facility shall be operated in such a manner that erosion and runoff from the site shall be controlled. Any leachate generated at the facility and any runoff from the facility shall be managed in such a manner that ground or surface water quality will not be adversely affected. The facility shall be maintained to prevent the accumulation of stormwater or leachate on travel areas or active composting sites.
3. An appropriate Division of Water Quality permit for managing any stormwater or wastewater at the facility shall be maintained as required. Additional surface water and groundwater monitoring shall be implemented based on the recommendations from the Compost Operation Stakeholder Advisory Committee (formed under the direction of HB 1100) or as required by the Division of Waste Management.
4. Only materials specifically listed in the permit application may be managed at this facility. Before additional materials including feedstocks listed within the permit application as potential waste streams may be added, there must be adequate testing and prior approval by the Division of Waste Management in writing.
5. All compost produced at the facility shall meet the requirements of Rule .1407 of the Solid Waste Compost Rules and the permit application.
6. Testing and reporting shall be conducted in accordance with the requirements of Rule .1408 and the permit application. An annual report of facility activities for the fiscal year July 1 to June 30 shall be submitted to the Division by August 1 of each year on forms provided by the Division. This report shall include the amount of materials received and composted in tons.
7. The compost operation and the compost pad shall be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard.

8. Compost data shall be maintained as required to document temperatures, moisture levels and aeration intervals. Bulk density and C:N calculations shall be reviewed no less than every 14 days.
9. McGill shall ensure that windrow moisture levels in the compost windrows are maintained in the 40-60% range for newly created windrows and compost windrows within PFRP.
10. Dimensions for active composting shall be limited to a maximum of 8-feet high x 30-feet wide unless otherwise approved by the Division.
11. In the event of a mechanical failure, McGill shall immediately use its best effort to utilize substitute equipment for completion of the composting operation.
12. Windrow turning shall not occur without consulting weather forecasts for favorable conditions including temperature, wind direction, temperature inversions, and precipitation.
13. Upon receipt of an odor complaint, the facility operator shall investigate and take actions as necessary to minimize the cause of the complaint. A copy of all written complaints regarding this facility shall be maintained for the duration of the permit including the operator's actions taken to resolve the complaints.
14. The odor management plan shall be followed to minimize odors at the facility boundary.
15. Odorous feedstocks shall not be accepted at the facility unless it is demonstrated that the feedstocks can be effectively composted. Feedstocks shall not be received that are in an anaerobic state.
16. The facility shall be operated in a manner that reduces the potential for vector attraction.
17. Stockpiling of finished product shall be limited to a height of 30'.

Facility: McGill Environmental Systems, Inc.
SWC Permit #: 19-06
County: Chatham

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18. Areas of structure distress, cracks, localized failures, or expansion joint deterioration shall be documented and repaired immediately.
19. The facility operational capacity for this permit shall be limited to 151,200 tons of materials composted per year. This tonnage limit includes the summation of all feedstocks, amendments and recycled material utilized in the compost process.
20. This permit shall expire on December 8, 2015. A properly completed application for permit renewal shall be submitted at least 90 days prior to the permit expiration date. Changes in ownership, increase in facility capacity or receiving feedstocks not identified in the permit application shall require a permit modification.