



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

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Director

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Secretary

**FACT SHEET AND FINAL PERMIT DECISION
SOLID WASTE PERMIT NUMBER 9601-CDLF-1997**

Document ID No. (Doc ID): 16992

FACILITY: Wayne County Construction and Demolition Debris Landfill
COUNTY: Wayne
CITY: Dudley, North Carolina
OWNER/OPERATOR: Wayne County
460 B South Landfill Road
Dudley, NC 28333

NOTIFICATION OF FINAL PERMIT ACTION

On August 27, 2012, the Division of Waste Management (the Division) issued Wayne County Solid Waste Permit 9601-CDLF-1997, Permit to Operate - Phases 1 & 2 for Wayne County Construction and Demolition Debris Landfill (C&DLF). The Division has determined that the proposed facility plan, the operations plan, the closure and post-closure plan, the construction quality assurance plan, the water quality monitoring plan, the corrective action plan to treat groundwater contamination associated with the closed municipal solid waste landfill (MSWLF), and the documentation of public meetings and local government approval satisfied the requirements of the Solid Waste Management Rules as codified in 15A NCAC 13B .0531, et seq. and 15A NCAC 13B .1630 through .1637. This permit expires on August 27, 2017.

DESCRIPTION

Wayne County has applied for a permit to continue operating the existing Wayne County C&DLF and has submitted a groundwater corrective action plan, in accordance with 15A NCAC 13B .0547 (4). The 112-acre landfill facility consists of two closed unlined MSWLF units – Units 1 & 2 and other specific waste management areas. The C&DLF unit is located on top of the closed MSWLF – Unit 2. Wayne County C&DLF is located on 460 B South Landfill Road in Dudley and owned and operated by Wayne County.

The unlined MSWLF – Unit 1 & Unit 2 encompass waste footprints of approximate 40 acres and 36.5 acres, respectively. The Unit 1 received municipal solid wastes from 1974 to 1981 and was closed prior to October 1991 with a 24-inch-thick final soil cover. The Unit 2 received wastes from 1981 to 1990 and closed with a prescribed final cover in 1998. Following the closure of Unit 2, the C&DLF was approved to be constructed on top of the Unit 2 and began receiving C&D wastes for disposal in December 1997. The vertical expansions of the C&DLF units encompass approximately 40-acre waste footprints with a total gross capacity of approximately 2,736,883 cubic yards. The incremental development of C&DLF consists of a total of seven (7) phases; the first phase (Phase 1) of which are completed and used for landfilling, and the Phase 2 is developed

and ready for operation. The life of Phase 2 is approximately 5 year. Phase 2 through Phase 7 provide approximately 30 years of disposal capacity.

No changes are proposed at this time to increase the volume, annual waste acceptance rate (tons per year) or service area. The remaining capacity of the C&DLF unit was approximately 2,736,883 cubic yards (CY) including waste space of 1,841,891 CY and final cover system of 258,134 CY. The C&DLF unit is expected to reach its capacity in approximately 2042 based on the average disposal rate of 36,057 tons per year, with an increasing rate of 0.83% annually since 2012. If waste receipts are less, the landfill service life could last longer. The facility is permitted to receive construction and demolition debris generated from the Wayne County consistent with the local government solid waste management plan(s), local government approvals dated June 3, 2008 by the Wayne County Board of Commissioners.

This C&D Landfill unit is permitted to dispose of land clearing/inert debris and construction/demolition debris resulting solely from construction, remodeling, repair, or the demolition of pavement, buildings, or other structures. Hazardous wastes or other banned wastes such as municipal or industrial solid wastes, liquid waste, medical waste, radioactive waste, PCB wastes, yard trash, white goods, septage, sludge, and special wastes are not approved for disposal.

A Corrective Action Plan to address groundwater contamination associated with the closed unlined MSWLF was prepared in accordance with the Solid Waste Management Rules .1635 through .1637. An assessment of corrective measures for groundwater treatment was presented at a public meeting held on February 8, 2008. The selected remedies for implementation to correct the groundwater issues includes monitored natural attenuation coupled with an active gas collection and control system to control decomposition gases, the existing institutional controls, and capping for the source control. The draft permit contains conditions for the implementation, operation, and assessment of the action plan.

PERMIT STRUCTURE

The permit is divided into two parts, the Permit to Construct and the Permit to Operate. A Permit to Operate is issued for 5-year increments of operation. The permit includes a list of approved documents and specific conditions for the operations of landfill units and other specific waste management areas, implementation of the groundwater Corrective Action Plan, and closure and post-closure cares associated with the closed municipal solid waste landfill.

PUBLIC COMMENT PERIOD

North Carolina Solid Waste Management Rules required that the public be given an opportunity to comment on a draft permit for a municipal solid waste management facility. This 45-day comment period began on **June 2, 2012**, and ended on **July 16, 2012**. The draft permit was available for review by appointment from 9 AM to 4 PM, Monday-Friday, at the Division of Waste Management, at the building address shown below. All data submitted by the applicant is available as part of the administrative record and can be viewed online at <https://edm.nc.gov/DENR-Portal/>. Type in the Doc ID Number (only numeric number) in the

boxed area next to the “**Description**” in the “**Property Criteria**” area. Then click “**Search**” box. The document in pdf format will appear on the lower section of the screen called “**Content**” area.

During the 45-day public comment period, persons who wished to comment on the proposed permit conditions or to object to the permit issuance have been provided opportunities to submit their comments in writing by **July 16, 2012**, at 5:00 PM. No comments received within the 45-day period.

PUBLIC HEARING

Public hearings have been conducted in accordance with the Solid Waste Management Rules to address the continued operation of the C&DLF and the Corrective Action Plan for the MSWLF. The Division believed the pertinent issues involved in the permit decision were addressed in these hearings and did not plan to conduct a public hearing during the aforementioned 45-day public comment period; however, opportunities for the requesting a public hearing were given to the general public. No written request for a public hearing was received by the Division during this comment period.

NOTIFICATION

Persons interested in receiving notification of the final permit decision were allowed to register with the division contact listed below.

DIVISION CONTACT

North Carolina Division of Waste Management
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