



**NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

September 8, 2005

Charles Brushwood, Director  
Davidson County Integrated Solid Waste  
220 Landfill Road  
Lexington, North Carolina 27292

Re: Permit to Construct C&D Landfill Phase 2  
Permit No. 29-06  
Davidson County Landfill Facility  
Davidson County, North Carolina

Dear Mr. Livingston:

The attached Permit to Construct is issued for the above referenced facility in accordance with N.C.G.S. 130A-294 and the N.C. Solid Waste Management Rule 15A NCAC 13B, .0201(b)(1). Included in the permit is Attachment 2, which lists and describes documents included in the Approved Plan. Please note the following conditions in the Permit to Construct:

- Condition 4 requires the facility to hold a preconstruction meeting at the site before initiating construction of the Phase 2 unit and provide the Solid Waste Section 10 days advanced written notice.
- Condition 9 requires the Solid Waste Section Hydrogeologist (in this case Brian Wootton) be notified of any findings of pertinent geologic features exposed during the construction process prior to the placement of any liner materials.
- Condition 12 describes the requirements that must be met prior to operation of the unit.

After you have reviewed the attached Permit to Construct, please call me at (919) 508-8504 should you have any questions or comments regarding the permit or wish to discuss the permit conditions. Also, Hugh Jernigan, Waste Management Specialist for your area, can be contacted at the DENR Winston-Salem Regional Office at (336) 771-4608 extension 385.

Sincerely,

Geoffrey H. Little  
Environmental Engineer  
Solid Waste Section

c: Jim Coffey, DWM  
Jim Barber, DWM

Hugh Jernigan, DWM  
Brent Rockett, DWM

Pieter K. Scheer, PE, GNR  
Joan A. Smyth, PG, GNR

FACILITY PERMIT NO: 29-06  
Part 1 - Permit to Construct  
Date of Original Issue - Area 3: October 8, 1993  
Modification - Area 3: June 22, 1994  
Modification - Area 3: July 14, 1994  
Permit Renewal - Area 1: February 20, 1995  
Amendment - Area 2: August 18, 1999  
Amendment - CDLF Unit: October 2, 2000  
Amendment - Phase 2 CDLF Unit: September 8, 2005  
Page 1 of 5

## **MUNICIPAL SOLID WASTE LANDFILL**

### **FACILITY PERMIT**

DAVIDSON COUNTY

is hereby issued a

PERMIT to CONSTRUCT

MUNICIPAL SOLID WASTE LANDFILL FACILITY

CDLF UNIT PHASE 2

located on Roy Lopp Road, North Carolina State Road 2014, Davidson County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit.



Donald J. Barber, Head  
Permitting Branch  
Solid Waste Section

FACILITY PERMIT NO: 29-06  
Part 1 - Permit to Construct  
Date of Original Issue - Area 3: October 8, 1993  
Modification - Area 3: June 22, 1994  
Modification - Area 3: July 14, 1994  
Permit Renewal - Area 1: February 20, 1995  
Amendment - Area 2: August 18, 1999  
Amendment - CDLF Unit: October 2, 2000  
Amendment - Phase 2 CDLF Unit: September 8, 2005  
Page 2 of 5

## **ATTACHMENT 1**

Approved Documents

**PART I: GENERAL FACILITY**

**PART II: MUNICIPAL SOLID WASTE LANDFILL**

**PART III: CONSTRUCTION AND DEMOLITION LANDFILL**

1. *Permit to Construct Application, Davidson County C&D Landfill - Phase 1, Lexington, North Carolina*, dated July, 2000, prepared by G. N. Richardson & Associates on behalf of Davidson County.
2. Plans entitled *Construction & Demolition Debris (C&D) Landfill - Phase 1, Engineering Drawings*, dated July 2000, prepared by G. N. Richardson & Associates on behalf of Davidson County.
3. *Permit to Construct Application, Davidson County C&D Landfill Phase 2, Lexington, North Carolina*, dated April 2005 with revisions dated July 1, 2005, and subsequent supporting hydrogeological information received on August 23, 2005, and August 30, 2005, prepared by G. N. Richardson & Associates on behalf of Davidson County. The application includes 11 plan sheets entitled Construction and Demolition Debris (C&D) Landfill Phase 2 Engineering Drawings bearing a certification date on each page of 4/29/05.

**PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL**

**PART V: YARD WASTE**

**PART VI: MISCELLANEOUS FACILITIES**

## ATTACHMENT 2

### PART I: GENERAL FACILITY CONDITIONS

#### FACILITY CONSTRUCTION CONDITIONS

4. Davidson County shall conduct a pre-construction meeting at the site before initiating construction of the Phase 2 unit and shall provide the Solid Waste Section written notice at least 10 days before the meeting.
5. Construction of the Construction and Demolition Debris (C&D) solid waste management units shall be in accordance with the approved plans and only for those phases of development approved for construction listed and described in Attachment 1, "Approved Documents."
6. Modification to the approved construction of the C&D landfill units requires the submittal of a written request for the review and approval of the North Carolina Solid Waste Section. Failure to secure written approval before modifications are effected may be cause to void this permit.
7. Sedimentation and erosion control activities are subject to the rules administered by the North Carolina Land Quality Section and require separate approval from that agency. The North Carolina Solid Waste Section shall be notified of modifications to the sedimentation and erosion control facilities.
8. Prior to construction of cell(s), all piezometers, ground-water monitoring wells, and borings, located in the proposed cell(s), shall be properly abandoned and sealed with grout in accordance with 15A NCAC 2C.0113(b)(1), titled "Abandonment of Wells".
  - a. In areas where soil is to be undercut, wells should not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damaging the wells.
  - b. Well abandonment records for each piezometer, ground-water monitoring well and boring shall be certified by the permit holder's geologist and submitted to the Solid Waste Section in accordance with 15A NCAC 02C.0114(b).
9. A registered professional geologist licensed to provide services in North Carolina shall:

- a. Examine the cell excavation and note any pertinent geologic features exposed during the construction that may adversely affect the integrity of the liner system. The geologist shall notify the Solid Waste Section Hydrogeologist for a determination of whether the geologic feature warrants a change in the liner system design before the placement of any liner materials may occur.
  - b. Observe all well installations. Any modification to the water quality monitoring plan requires approval by the Solid Waste Section Hydrogeologist. Documentation of all changes to the approved plan shall be submitted with the well construction records.
  - c. Certify that each monitoring well was constructed in accordance with the approved water quality monitoring plan. The certification report shall include a well construction record, well schematic, boring log, and a description of well development activities for each monitoring well constructed under this Permit to Construct. The certified report shall be submitted to the Section within 30 days of the date of the well completion date.
10. Unless otherwise approved in writing by the Solid Waste Section, all wells shall be constructed such that the well screen brackets the upper most surface of the ground water table.

#### **FACILITY PRE-OPERATIVE CONDITIONS**

11. This permit only authorizes the construction of the unit or units described in the application for a Permit to Construct as listed in Attachment 1. Solid waste shall not be received in the unit or units approved for construction under this permit until the Permittee applies for and obtains a Permit to Operate from the Solid Waste Section in accordance with 15A NCAC 13B .0201(b).
12. The following requirements shall be met before waste may be received in the approved unit:
  - a. A registered professional engineer licensed in North Carolina must certify that the Phase 2 C&D disposal unit(s) were constructed in accordance with the approved plans, Construction Quality Assurance plan and technical specifications contained in the application for a Permit to Construct as listed in Attachment 1. The certification report must include copies of all engineering certifications required in the approved Construction Quality Assurance Plan, Technical Specifications, Engineering and Facilities Plans, and 3 sets of As-Built drawings.

- b. The Permittee shall demonstrate to a representative of the Solid Waste Section during a site inspection that construction of the Phase 2 facility is in accordance with approved plans and that construction is correctly depicted the As-Built drawings.
- c. Before waste disposal occurs in any unit, a pre-operation meeting shall be held on-site with all landfill personnel in responsible charge of the facility and representatives of the Solid Waste Section.

**PART II: MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS**

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS**

- 13. This permit approves the development and construction of Phase 2 of the Construction and Demolition debris landfill unit as described in the approved plans.
- 14. Buffer zones are located as shown in the approved plans. Section approval is required for use of buffer zones other than as described in the approved plans.
- 15. A Permit to Operate is required before acceptance and disposal of solid waste in the unit.
- 16. Ground water monitoring wells and surface water sampling locations shall be sampled in accordance with the approved plans before issuance of a Permit to Operate.

**PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS**

**PART V: YARD WASTE UNIT SPECIFIC CONDITIONS**

**PART VI: MISCELLANEOUS UNIT SPECIFIC CONDITIONS**