



Davidson County
Integrated Solid Waste Management
Facility Permit No: 29-06
DRAFT Permit to Construct
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RCO2496

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

**STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT**

**MUNICIPAL SOLID WASTE FACILITY
PERMIT NO. 29-06**

Davidson County Integrated Solid Waste Management
is hereby issued a

Permit to Construct

A Municipal Solid Waste Landfill
Phase 2 Area 1

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. The facility is located and described by the legal description found in the approved application.

Edward F. Mussler, III, P.E.,
Permitting Branch Supervisor
Permitting Branch
Solid Waste Section

ATTACHMENT 1

Part A Permitting History

Permit Type	Date Issued
Original Issuance MSWLF Phase 1 Area 3	October 8, 1993
Modification No. 1 MSWLF Phase 1 Area 3	June 22, 1994
Modification No. 2 MSWLF Phase 1 Area 3	July 14, 1994
Permit Renewal MSWLF Phase 1 Area 1	February 20, 1995
Amendment 1 MSWLF Phase 1 Area 2	August 18, 1999
Amendment 2 CDLF Phase 1	October 2, 200
Amendment 3 CDLF Phase 2	September 8, 2005
Amendment 4 MSWLF Phase 2 Area 1	June 1, 2007

Part B List of Documents for the Approved Facility Plan

Part I: General Facility

The listing for General Facility Documents numbered 1 through 25 is contained in previous permits

26. Davidson County Landfill Partial Closure Construction Quality Assurance Certification Report, dated November 2005 prepared and submitted by Joyce Engineering. (Document Id. No. RCO724)

Part II: Municipal Solid Waste Landfill

Phase 1 Area 2 - Permit Amendment

1. Volume I, Application for Permit Amendment, Davidson County Landfill, prepared by Joyce Engineering, Inc., dated January, 1999, latest revision.
2. Volume II, Application for Permit Amendment, Davidson County Landfill, prepared by Joyce Engineering, Inc., dated January, 1999, latest revision.
3. Design Hydrogeologic Report, Subtitle-D Municipal Solid Waste Landfill Area 2 prepared by G.N. Richardson & Associates dated June 1998.

Phase 2 Area 1 – New Facility

4. Site Suitability Application, Davidson County Phase 2 Landfill, prepared by G.N. Richardson & Associates, Inc., dated May 2006. Note: Approved Option A. (RCO1035)
5. Permit to Construct Application, Volumes 1 and 2 for Phase 2 Area 1, prepared by Richardson Smith Gardner & Associates, dated February 2007. (RCO2479)

Part III: Construction and Demolition Landfill

The listing for C&DLF Documents numbered 41 through 43 is contained in previous permits

44. 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.
45. Construction Quality Assurance Report, Davidson County C&D Landfill – Phase 2, dated February 2006, prepared by G. N. Richardson & Associates.

Part IV: Land Clearing And Inert Debris Landfill

Not Applicable

Part V: Yard Waste

Not Applicable

Part VI: Miscellaneous Facilities

Not Applicable

Household Hazardous Waste Documents

- 43 Application for Permanent HHW Facility. Submitted by: Davidson County. May 15, 2001. Revised June 22, 2001.

Mobile Home Recycling Documents

44. Operations Manual, Davidson County C&D Landfill - Mobile Home Deconstruction. Prepared by: G.N. Richardson & Associates, Raleigh, NC. May 2002.

- End of Section -

ATTACHMENT 2

Conditions of Permit to Construct

Part I General Facility Conditions

1. This permit approves the Facility Plan that defines the comprehensive development of the facility including the total municipal solid waste landfill capacity, the municipal solid waste stream, all onsite solid waste management facilities and related facility infrastructure in accordance with 15 NCAC 13B .1619.
 - a. The approved plans are described in Attachment 1, "List of Documents for the Approved Facility Plan."
 - b. Where discrepancies may exist, the most recent approved submittal shall prevail unless specifically addressed in these Conditions of Permit.
2. Should this municipal solid waste landfill facility be sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must contain in the description section in no smaller type than that used in the body of the deed or instrument a statement that the property has been used as a sanitary landfill and a reference by book and page number to the recordation of the permit.
3. The landfill is permitted to dispose solid waste that meets the definition provided in North Carolina General Statutes Chapter 130A-290(a)(35) and to accept for disposal solid waste generated from within Davidson County and those counties within a 75 mile radius of Davidson County including those counties in Virginia except as otherwise prohibited by North Carolina General Statutes Article 9 of Chapter 130A and rules adopted by the Commission for Health Services.
4. The owner or operator of the landfill facility must not knowingly dispose municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
 - b. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
5. The facility is subject to the requirements of all applicable sections of the most recent version of the North Carolina Solid Waste Management Rules 15A NCAC 13B and the specific conditions contained herein.

6. This facility must conform to the specific conditions set forth in this permit and the provisions of 15A NCAC 13B .1604(b)(2).
7. This facility permit is issued under the criteria set forth in 15A NCAC 13B .1603(a)(2). Any facility changes that are in conflict with the criteria established in 15A NCAC 13B .1603(a)(1) may require a new permit.
8. Davidson County must submit an amendment to this permit pursuant to 15A NCAC 13B .1603(a)(2) for any subsequent phase of development.

Facility Construction Conditions

9. Davidson County must conduct a preconstruction meeting, on site, prior to initiating construction of any unit/cell at the site and must provide a written notice to the Solid Waste Section 10 days prior to that meeting.
10. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment 1, 'Approved Documents.'
11. Additional conditions and revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the North Carolina Solid Waste Section.
12. Any modifications in sedimentation and erosion control activities require approval by the Land Quality Section. The Solid Waste Section must be notified of any sedimentation and erosion control modifications.

Facility Pre-Operative Conditions

13. Prior to receiving waste at any unit of this facility, a Permit to Operate must be obtained from the Solid Waste Section in accordance with 15A NCAC 13B .0201(b).
14. The following requirements must be met prior to waste disposal for any unit of this facility:
 - a. Site preparation must be in accordance with the approved plans and the conditions specified herein.
 - b. The permittee must arrange for a site inspection of the facility by a representative of the Solid Waste Section. The purpose of the inspection will be for the operator to demonstrate that the facility construction is consistent with approved plans and specifications.
 - c. Prior to waste disposal in any new unit or cell, the permittee must contact the appropriate regional Solid Waste Management Specialist to determine whether the

Solid Waste Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Solid Waste Section.

PART II Municipal Landfill Unit Specific Conditions

1. The new facility is approved for a total gross design volume of 9,014,020 cubic yards; however, only Option A is approved for construction at this time. Additional data may be presented to support the Option B alternative. Gross volume is measured from the top of the protective cover to the top of final cover.

2. Development of Phase 2 must only be in accordance with the Division approved plans and consistent with the landfill capacity requested and approved in the Facility Report submitted with the Permit to Construct Application dated February 2007. The construction of Phase 2 is permitted for approximately

Landfill Unit	Area (acres)	Gross Capacity		Life Expectancy (years)
		(cubic yards)	(tons)	
Phase 2 Area 1	14.7	903,896	582,423	5.3
Phase 2 Area 2	12.8	900,414	575,940	5.0
Phase 2 Area 3	17.1	1,526,949	975,280	7.9
Phase 2 Areas 4-5 (Option A)	19.0	2,309,242	1,412,880	10.4
Phase 2 Areas 4-6 (Option B)	28.7	3,453,458	2,139,058	15.5
Total (Option A)	63.6	7,869,804	4,879,128	30.7
Total (Option B)	73.3	9,014,020	5,605,306	35.8

3. The first approved phase of construction covered under this Permit to Construct is Phase 2 Area 1. Based on an average disposal rate of 354.5 tons per day (310 working days per year), the unit is expected to provide disposal capacity for 5.3 years.

Pre-Operational Conditions

4. Ground water monitoring wells and surface water sampling locations must be sampled for the Appendix I constituent list prior to issuing the Permit to Operate.

Construction Conditions

5. The owner's geologist must:
 - a. Examine the cell excavation and note any pertinent geologic features exposed during the construction process.

- b. Notify the Solid Waste Section Hydrogeologist in writing of the subgrade conditions and whether the subgrade conditions will adversely affect the design, construction or operation of the unit. This must be done prior to the placement of any liner materials
 - c. Be present to supervise and document all new monitoring well installations.
6. Any modification to the approved water quality monitoring plan must be submitted to the Section Hydrogeologist for review and approval. Documentation of all changes to the approved plan must be submitted with the well construction records.
7. For each new monitoring well constructed, a well construction record, well schematic, boring log and a description of well development activities must be submitted to the Section within 30 days upon well completion.

- End of Section -

PART III CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART IV LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART V YARD WASTE UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART VI MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC CONDITIONS

(Specify Unit Type) (NOT APPLICABLE)

- End of Permit Conditions -