



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

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

Land Clearing and Inert Debris (LCID) LANDFILL

PERMIT NO. 26-K
(DWM Document ID No.: 7609)

Cumberland County
Barnhill Contracting Company
CROWELL SITE LANDFILL
is hereby issued a

PERMIT TO CONSTRUCT & OPERATE

located near Doc Bennett Road (NCSR 2212) and NC-87 approximately 10 miles southeast of the city of Fayetteville, Cumberland 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 described by the legal description of the site or the property survey contained within the approved application and drawings.

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

ATTACHMENT 1

PART I: PERMITTING HISTORY

Permit	Date
Date of Original Issue	October 29, 1992
Permit Renewal (Phase I thru V)	February 20, 2002
Facility Compliance Audit	March 19, 2002 August 5, 2004
Permit Expiration	February 20, 2007
Permit Renewal (Phase VI thru X)	To be Determined

PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

1. Permit Renewal Application submitted September 26, 2008 (DIN: 6230).
2. Technical Comments sent on December 15, 2008 (DIN: 6456) and additional comments sent on January 12, 2009 (DIN: 6580).
3. Technical Responses submitted on May 4, 2009 (DIN: 7604).
4. Eleven final drawing sheets resubmitted electronically on May 5, 2009 (DIN: 7605)
5. All sedimentation and erosion control activities shall be conducted in accordance with the Sedimentation Control Act 15A NCAC 4 and consistent with the approved mining permit (26-16) issued on December 19, 2008 by the NC Division of Land Resources – Land Quality Section (in DIN: 7604).
6. This permit shall not be effective unless the certified copy is filed in the Register of Deeds Office and indexed in the grantor index under the name of the owner of the land in the county or counties in which the land is located. The certified copy of the permit, affixed with the Register’s seal and the date, book, and page number of recordation.
7. Additional information and confirmations of the LCID phases, and their acreage, capacities and elevations provided by the ESP Consultant via emails in May 20 & 21, 2009 (DIN: 7606).

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Property	Book ¹	Page	Acreage	Grantor	Grantee
Properties Included in Prior Facility Boundary					
Original Permit	2644	357	25	William W. & Carolyn C. Crowell	Crowell Constructors, Inc.
Total Site Acreage:			25		

Notes:

1. Deed book references are from Cumberland County, NC Register of Deeds office.

PART IV: GENERAL PERMIT CONDITIONS

1. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0563(4) and .0201(e), this permit approves construction and an operational period for the Barnhill Contracting Company Land Clearing and Inert Debris Landfill (LCIDLF) of five (5) years from the issuance date of this Permit to Construct and Operate and shall expire May 17, 2014.
 - a. No later than November 17, 2013 the Permittee must submit an application to the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section) for permit amendment for the next 5-year phase of construction and/or operation.
 - b. The application for the next phase of construction or operation must comply with the rules and regulations in effect at the time of the next application.
2. The persons to whom this permit is issued (“Permittee”) are the owners and operators of the solid waste management facility.
3. This permit shall not be effective until the certified copy of this permit which references legal descriptions for all land within the solid waste management facility boundary is recorded in the Register of Deeds office and indexed in the grantor index under the name of the owner of the land in the county or counties in which the land is located. The certified copy of the permit affixed with the Register's seal and the date, book, and page number of recording must be returned to the Solid Waste Section within thirty (30) calendar days of issuance of this permit. If the Solid Waste Section does not receive the certified copy of the recorded permit within 30 calendar days of issuance of the permit, then and in that event, the permit is suspended and of no effect until the date the Solid Waste Section receives the certified copy of the recorded permit.

4. When this property is 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 LCIDLF and a reference by book and page to the recordation of the permit.
5. By receiving waste at this facility, the Permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B; Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.); the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Part II "List of Documents for Approved Plan," and which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
8. This permit may be transferred only with the approval of the Solid Waste Section through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g), the Permittee must notify the Solid Waste Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.
9. The Permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the Permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

- End of Section -

ATTACHMENT 2 CONDITIONS OF PERMIT TO CONSTRUCT

PART I: FACILITY SPECIFIC CONDITIONS

1. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0201(c) and (d)(1), this permit approves construction for the Barnhill Contracting Company Crowell Site Landfill.
 - a. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit. If substantial construction does not

- begin within 18 months from the issuance date of this permit, then the permittee must obtain a permit modification from the Section prior to construction, comply with the conditions of the approval and submit a Municipal Solid Waste permit modification fee. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures.
- b. 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 I, Part II List of Documents for Approved Plan.
 - c. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit/cell and must notify the Section at least 10 days prior to the meeting.
 - d. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.

GEOLOGIC, GROUND WATER AND MONITORING REQUIREMENTS

- 2. Prior to issuing the Permit to Operate, samples from new ground water monitoring wells and surface water stations shall be sampled for the Appendix I constituent list.
- 3. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (b)(1), entitled "Abandonment of Wells."
- 4. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pregrade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possible damage the wells.
- 5. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
- 6. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
- 7. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.

8. [Intentionally Blank]
9. Within 30 days of completed construction of each new groundwater monitoring well, a well construction record (GW-1 form), typical well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section.
10. The permittee must provide a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells,.
11. Well abandonment records (GW-30 form) for each decommissioned piezometer, boring, and groundwater monitoring well must be certified by a Licensed Geologist and submitted to the Section in accordance with 15A NCAC 2C .0114 (b).

EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

12. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
13. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
14. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
15. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

PART II: MUNICIPAL SOLID WASTE LANDFILL SPECIFIC CONDIITONS

16. This permit authorizes the operation and construction of Phase VI through Phase X and continued operation of Phases I through V at the LCID Landfill. Phases VI through X have a total of 43,294 cubic yards of gross capacity in accordance with the approved plan referenced in Attachment 1, Part II, of this permit.
 - a. Gross capacity is the measured volume between the top of protective cover and the top of final cover.
 - b. Areas identified as future cells are deemed suitable for preparation of a permit application in accordance with Solid Waste Rule 15A NCAC 13B .1618(a)(1). The permittee must submit

an application for a Permit to Construct in compliance with applicable rules and statutes before commencement of construction in those future areas.

- c. This permit approves the Facility Plan that defines the comprehensive development of the LCID facility, its waste stream, all onsite LCID waste management facilities and related infrastructure in accordance with 15 A NCAC 13 B .1619. As specified in the original Permit and the “local governmental approval process,” the facility has set a maximum disposal rate of 5,000 cubic yard or 300 tons per year for the landfill (average of 25.0 tons per month or 1.186 tons per day based on 253 operating days per year). The proposed facility boundary remains the same as in the original permit. The registered deeds remain the same as well.
- d. The landfill approved for development is summarized below:

	Acreage	Capacity in cubic yard	Average max. Elevation (Feet MSL)
Phase 1	0.6	1514	-
Phase 2	0.63	3814	-
Phase 3	0.63	7888	-
Phase 4	0.63	8338	-
Phase 5	0.58	7618	-
Phase 6	1.19	10508	159.29
Phase 7	0.72	10131	160.52
Phase 8	0.61	8755	160.11
Phase 9	0.58	7175	159.92
Phase 10	0.63	6725	157.24
Phase 11	0.68	6712	156.92
Phase 12	0.75	8985	157.82
Phase 13	0.65	7743	159.95
Phase 14	3.34	26085	163.47

- e. The following conditions must be met prior to operation of the Phase 3A and 4 areas:
- f. The Permittee must obtain a Permit to Operate Phase 4 from the Section in accordance with 15A NCAC 13B .0201(d).

- g. Site preparation must be in accordance with the approved plans and the conditions of the permit.
- h. Construction Quality Assurance (CQA) documentation as well as a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.
- i. Prior to waste disposal in any new cell/unit, the permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
- j. The edge of the waste footprint must be identified with a permanent physical markers.

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

Not applicable

- End of Permit Conditions -