



**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

January 5, 2007

Jerry Blanchard, Director  
Harnett County Solid Waste Management  
P.O. Box 940  
Lillington, North Carolina 27546

Re: Permit Modification for Phase II-B  
Anderson Creek C&D Landfill  
Harnett County, North Carolina  
Permit No. 43-03  
Doc ID No. RCO789

Dear Mr. Blanchard:

The Solid Waste Section hereby approves the modification of the referenced Facility permit to allow the continued operation of a Construction and Demolition (C&D) Landfill consisting of the Phase II Area at the Harnett County Anderson Creek C&D Landfill. The operation of the approved area is valid through July 1, 2008.

An application for continued use of the facility after that date will need to be submitted to this office by January 2008 and will be subject to the solid waste rules in effect at that time. Please note that new rules are in effect for C&D landfills and are available at the following web address:

<http://www.wastenotnc.org/swhome/CD/FinalVersion/CD.pdf>

Should you have any questions regarding the attached permit or wish to discuss the matter further, please contact me at (919) 508-8498 or Dennis Shackelford, Solid Waste Management Specialist for your facility, in the Fayetteville Regional Office at (910) 486-1541 Ext. 749.

Thank you for your cooperation in this matter. Should you have any questions regarding this letter or wish to discuss the matter further, please contact me at (919) 508-8504.

Sincerely,

Geoffrey H. Little  
Environmental Engineer  
Solid Waste Section

c: Paul Crissman, DWM  
Ed Mussler, DWM

Dennis Shackelford, DWM  
C.T. Clayton, Sr., P.E.



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

**MUNICIPAL SOLID WASTE FACILITY  
PERMIT NO. 43-03**

**Harnett County Landfill**  
is hereby issued a

**Permit to Operate**

**Anderson Creek Construction and Demolition (C&D) Landfill**  
Phases I, II-A and II-B  
on the closed Harnett County-Anderson Creek MSW landfill property

located on S.R. 1146 in the Barbecue Township, Lillington, Harnett 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.

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

## ATTACHMENT 3

### Part A. Permitting History

Permit Type	Date Issued
Permit to Construct Phase 1	12/11/96
Permit to Operate Phase 1	04/17/97
Permit to Construct Phase II	10/18/04
Permit to Operate Phase II-A	01/11/05
Permit to Operate Phase II-B	01/05/07

### Part B. List of Additional Documents for the Approved Transition Plan

#### Phase 1

1. Site and Construction Plans/Application for Harnett County-Anderson Creek Landfill, Construction and Demolition Landfill Phase 1 (Cells 1 and 2).
2. Response to Completeness Review, letter dated 30 November 1996 to the Solid Waste Section, received 30 November 1996.
3. Erosion and Sedimentation Control Plan approval letter dated 18 November 1996.
4. Zoning letter dated 26 November 1996 to McKim & Creed.
5. Land Use Permit dated 5 December 1996 to Jerry Blanchard.
6. Sampling and Analysis requirements for Construction/Demolition Landfills and Closed Sanitary Landfills.
7. Document dated 21 March 1997 with the Design Engineers Construction Certification that the facility was constructed in accordance with the approved plans and a request to operate cells 1, 2 and 3 for Phase I. Also includes the second sampling results for the baseline sample.

#### Phase 2

##### Site Suitability

8. Site Application - HARNETT COUNTY - ANDERSON CREEK C&D LANDFILL FACILITY application dated September 2004 and received 30 September 2004 from C.T. Clayton, Sr., P.E.

##### Permit to Construct

9. CONSTRUCTION AND DEMOLITION LANDFILL PERMIT APPLICATION for ANDERSON CREEK CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL ADDITION (PHASE II) dated 29 September 2004, received on 30 September 2004.

10. Letter dated 4 November 2004 addressing piezometer abandonment at the Anderson Creek landfill.

**Permit to Operate**

11. Letter dated 4 November 2004 addressing piezometer abandonment.

12. Groundwater monitoring plan dated 30 November 2004, received 16 December 2004.

13. Letter dated 21 December 2004 addressing construction of Phase II-A, a 1.35 acre area of Phase 2, and an As-Built drawing dated 21 December 2004 indicating construction grades.

14. Certification of Phase II-B (1.45 acres) cell floor from C.T. Clayton, SR., P.E., Inc., dated August 1, 2006, including drawing titled Partial Grade Certification / Anderson Creek Landfill Facility / C&D Landfill Expansion – Phase II dated 03/24/2006. *Note: The subject of the certification cover letter refers to Phase III.* [RCO788]

## CONDITIONS OF PERMIT

### Site Specific Conditions

1. This permit covers an operational period for the Harnett County Anderson Creek C&D Landfill until **July 1, 2008**.
  - a. Modifications to the facility and engineering plans may be required during the operating period in accordance with the rules in effect at the time of the review.
  - b. The owner or operator shall submit a permit amendment or modification prepared in accordance with the rules applicable to Construction and Demolition Debris landfills effective at the time of submittal to comply with 15A NCAC 13B .0201(e) for operation beyond July 1, 2008.
2. The documents listed in Attachment 3 Approved Documents comprise the operation plan for the C&D Landfill unit. Operation of the C&D Landfill unit shall be in accordance with the documents listed in Attachment 3.
3. The service area for this facility is Harnett County consistent with the resolution by the Harnett County Board of Commissioners dated May 17, 2004.
4. The disposal capacity for Phase II is approximately 66,440 tons consistent with the Closure Contours shown on Drawing No. C-5 in the construction application. The operational capacity is based on the average receipt of 15,000 tons per year consistent with the resolution by the Harnett County Board of Commissioners dated May 17, 2004. An allowable variance in volume may occur only in accordance with G.S. 130A-294(b1)(1).

### General Conditions

5. This permit authorizes the operation of the Harnett County Anderson Creek C&D Landfill in accordance with the documents submitted in support of the application for permitting the facility identified in Attachment 3, "List of Documents for Approved Plan." Those documents constitute the approved plan for the construction, operation and closure of the facility. Where discrepancies exist, the most recent submittal and the Conditions of Permit shall govern. Some components of the approved plan may be reiterated in the Conditions of Permit.
6. This permit is not transferable.
7. All sedimentation/erosion control activities shall be conducted in accordance with the Sedimentation Control Act codified at 15 NCAC 4. Native vegetation shall be established on the completed C&D landfill unit in accordance with 15A NCAC 13B .0505 (3)(b)(c).

### Operations

8. Operation of the C&D landfill shall be in accordance with the N.C. Solid Waste Management Rules, the requirements contained in this permit, and the operating procedures described in the approved plan. Should the approved plan and the rules be in conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
9. Landfill operations shall be supervised by an individual certified under a management program approved by the Division. In addition:
  - a. A responsible individual certified in landfill operations shall be on-site during all operating hours.
  - b. All facility employees involved in the operation and maintenance of the landfill shall have completed annual training in the proper facility operation and maintenance.
10. The C&D landfill units are permitted to receive the following waste types:
  - a. Unless otherwise specifically approved by permit condition, only "construction" or "demolition" types of solid wastes as defined in NCGS 130A-290(a)(4) are permitted for acceptance and disposal in the C&D landfill units.
  - b. "Construction or demolition debris" as defined in G.S. 130A-290(a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
  - c. "Inert debris" as defined in G.S. 130A-290(a)(14) means solid waste that consists solely of material that is virtually inert, such as brick, concrete, rock and clean soil.
  - d. "Land-clearing debris" as defined in G.S. 130A-290(a)(15) means solid waste that is generated solely from land-clearing activities such as stumps and tree trunks.
  - e. "Asphalt" in accordance with G.S. 130A-294(m).
11. The C&D landfill units shall not receive the following waste types:
  - a. "Yard trash" as defined in G.S. 130A-290(a)(45) shall not be disposed in the landfill area. However, yard trash along with land-clearing debris may be accepted for processing as mulch or disposal in a LCID landfill.

- b. Municipal solid wastes, hazardous wastes, or liquid wastes are not permitted for acceptance or disposal in the C&D landfill units.
12. The permittee shall actively employ a screening program for the C&D unit that detects and prevents the disposal of MSW, hazardous, liquid or non-permitted wastes. At a minimum, the program shall include:
- a. Random inspections of incoming loads or other comparable procedures.
  - b. Records of any inspections.
  - c. Training of personnel to recognize hazardous and liquid wastes.
  - d. Development of a contingency plan to properly manage any identified hazardous, liquid or MSW wastes.
  - e. The plan must address identification, removal, storage and final disposition of unacceptable waste.

#### **Cover Material Requirements**

13. Solid waste shall be covered with a minimum of 6 inches of soil or an approved material of equivalent performance and thickness at least once per week or when the active area reaches 2 acre in size, or more often when necessary to prevent the site from becoming a nuisance or to mitigate conditions associated with fire, windblown materials, vectors, or excessive water infiltration.
14. Areas that will not receive additional waste for 12 months or more, but where termination of operations has not occurred, shall be covered with a minimum of 1 foot of soil cover [15A NCAC 13B .0505(3)(b)] and stabilized with vegetative cover including the approved daily cover material.
15. Upon termination of disposal operations at the C&D unit or revocation of a solid waste operational permit, all fill areas shall be covered with at least 2 feet of suitable compacted earth [15A NCAC 13B .0505(3)(c)] or other protective barrier system as specified by the rules or the permit in effect at the time of closure.

#### **Access and Safety**

16. The C&D unit shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DWM to prevent unauthorized entry.
17. The access road to the C&D unit shall be of all-weather construction and maintained in good condition.

18. Signs shall be posted at the entrance of landfill and other areas of the landfill in accordance with the Access and Safety Requirements under Operation Condition .0505(8) as follows.
  - a. Signs shall be posted at the landfill entrance stating that municipal solid waste, hazardous waste or liquid waste cannot be disposed in the C&D unit.
  - b. Signs at the landfill entrance shall provide information on receiving procedures, the hours of operation, the permit number, and other pertinent information to landfill operations.
  - c. Traffic signs or markers shall be provided throughout the landfill as necessary to promote orderly traffic patterns to and from the discharge area, maintain safe operating conditions, and to designate areas restricted from general access.
19. Dust control measures shall be implemented when necessary.
20. Barrels and drums shall not be disposed unless they are empty and perforated to ensure that no liquid or hazardous waste is contained therein.
21. Asbestos waste shall be managed in accordance with 40 CFR 61.
22. Open burning of solid waste is prohibited. Fires shall be reported to the Solid Waste Section by phone within 24 hours of an incident and written notification shall be submitted within 14 working days addressing the events at the site and future actions to be taken in the future to avoid and or mitigate potential fire hazards.
23. The concentration of explosive gases generated by the C&D unit shall not exceed:
  - a. 25% of the lower explosive limit for gases within on-site structures excluding gas control or recovery system components if necessary, and
  - b. 100% of the lower explosive limit for gases at the property boundary. Installation of permanent gas monitoring wells may be required in the future to demonstrate compliance.
24. The removal of solid waste from the facility is prohibited without written approval from the DWM and the removal is not performed on the working face. If C&D recycling is to take place in the future; amendment of the operations plan shall be submitted to the Solid Waste Section for review and approval.

**Erosion and Sedimentation Control**

25. Sedimentation and erosion control measures shall be employed to prevent silt from leaving the C&D unit site and to prevent excessive on-site erosion.
26. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&D landfill unit development or as addressed in the approved Sedimentation and Erosion Control permit.

**Drainage Control and Water Protection Requirements**

27. Surface water shall be diverted from the operational area.
28. Surface water shall not be impounded over or in waste.
29. Solid waste (C&D) shall not be disposed in standing water.
30. A separation distance of at least four feet shall be maintained between the C&D waste and the groundwater table.
31. Leachate shall be contained on site or properly treated prior to discharge. A NPDES permit may be required either prior to discharge of leachate to surface waters or for land disturbing activities greater than one acre.
32. Since the facility is constructed upon a closed municipal solid waste landfill, ground water quality for the C&D landfill unit is subject to the classification and remedial action provisions contained in 15A NCAC 13B .01630 through .01637.
33. A closure and post-closure plan must be submitted for approval at least 90 days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the C&D unit in accordance with all rules in effect at that time. At a minimum, the plan shall address the following:
  - a. Design of a final cover system as required by the solid waste management rules in effect at the time of closure;
  - b. Construction and maintenance/operation of the final cover system and erosion control structures;
  - c. Surface water, ground water, and explosive gas monitoring.

### Monitoring and Reporting Requirements

34. The following are requirements relating to groundwater monitoring for the C&D landfill facility:
- a. The permittee shall sample the monitoring wells semi-annually or as otherwise directed in writing by the SWS Hydrogeologist.
  - b. A readily accessible, unobstructed, path shall be maintained so that monitoring wells may be accessed using four-wheel drive vehicles.
  - c. A licensed geologist shall be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the SWS Hydrogeologist at the time of well installation.
  - d. All well construction records and soil boring logs for new wells shall be submitted to the Solid Waste Section Hydrogeologist for review within 30 days of completion.
  - e. Each monitoring well shall be surveyed and hydraulic conductivity and effective porosity values shall be established for each screened interval in order to develop groundwater flow characteristics.
  - f. The owner or operator shall maintain a record of all monitoring events and analytical data. Reports of the analytical data for each water quality monitoring sampling event shall be submitted to DWM in a timely manner.
  - g. The groundwater monitoring system shall consist of the following 6 wells: MW-1, CDMS-1, CDMW-2, CDMW-3, CDMW-5 and CDMW-6 as shown in the approved Document No. 12 in Attachment 3 titled Groundwater Monitoring Plan dated November 30, 2004.
35. The owner or operator shall maintain a record of the amount of solid waste received at the C&D unit, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.
36. On or before August 1 annually, the permittee shall report the tons of waste received and disposed in the C&D landfill unit to the Solid Waste Section and to all counties from which waste was accepted on forms prescribed by the Section. Annual reporting information shall be as follows:
- a. The reporting period shall begin the previous July 1 and end June 30.

- b. The annual report shall list the amount of waste received and landfilled in tons and be compiled:
    - i) On a monthly basis.
    - ii) By county, city or transfer station of origin.
    - iii) By specific waste type.
    - iv) By disposal location within the facility.
    - v) By diversion to alternative management facilities.
  - c. A copy of the completed report shall be forwarded to each county manager for each county from which waste was received at the facility.
  - d. A copy of the report and documentation that a copy of the report has been forwarded to all counties from which waste was accepted must be sent to the regional Waste Management Specialist by the date due on the prescribed annual report form.
37. All records required to be maintained by the owner or operator by regulation or permit shall be maintained on-site and made available to the SWS upon request.

*- End of Permit Conditions -*