

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director



April 17, 1997

Mr. Neil Emory, County Manager
County of Harnett
P. O. Box 759
Lillington, North Carolina 27546

Re: Solid Waste Permit No. 43-03
Harnett County-Anderson Creek Construction and Demolition
Landfill located on S.R. 1164, Anderson Creek Township,
Harnett County, North Carolina

Dear Mr. Emory:

The referenced PERMIT TO OPERATE is issued in accordance with N.C.G.S. 130A-294 and the N.C. Solid Waste Management Rules 15A NCAC 13B. Attachment 1 lists documents included in the Approved Plan.

This permit is for a five-year period, consistent with Solid Waste Management Rules. At the end of this five-year period, Harnett County may apply for an expansion for use of additional cells, but will be subject to all rules in effect at that time. This permit is issued to Harnett County as the owner and operator of the facility.

Please refer to the GENERAL Conditions of this permit for recordation procedures, the definition of the approved plan and for general terms of the Solid Waste Permit. The CONSTRUCTION AND OPERATION conditions describe permitted fill areas, acceptable wastes types, landfill operation, and requirements which must be satisfied prior to operation of the facility as a C&D landfill. Specific requirements for groundwater monitoring and facility record keeping and reporting are described in the MONITORING AND REPORTING conditions.

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Mr. Emory
April 17, 1997
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Please review the Conditions of Permit thoroughly. If you need further clarification, please contact me at (910) 486-1191. Mr. Mark Fry is the Waste Management Specialist for this area and can be contacted at DEHNR Fayetteville Regional Office, 225 Green Street, Suite 601 , Fayetteville, NC 28301, or by phone at (919) 486-1191.

Sincerely,

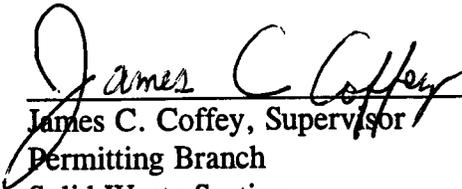


Jim Barber
Eastern Area Engineer
Solid Waste Section

cc: Jim Coffey
Terry Dover
Mark Fry
Jerry Blanchard
Central File: Harnett County; Permit file #43-03

CERTIFIED COPY OF SOLID WASTE PERMIT

I do hereby certify that the attached permit is an exact and true copy of Permit Number 43-03.


James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

North Carolina

Johnston County

I, Sue J. Hodge, a Notary Public for said County and State, do hereby certify that James C. Coffey, Supervisor, Permitting Branch, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and seal, this the 17th day of April, 1997.


Notary Public

My commission expires 10-21, 2000.

PERMIT NO. 43-03
AMENDED: 04/17/97

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

DIVISION OF SOLID WASTE MANAGEMENT

P.O. BOX 27687 RALEIGH, NC 27611

SOLID WASTE PERMIT

COUNTY OF HARNETT - ANDERSON CREEK

is hereby issued a PERMIT TO OPERATE a

Construction and Demolition Landfill unit (PHASE 1, CELLS 1, 2 & 3)
located within the HARNETT COUNTY-ANDERSON CREEK landfill facility

located on S.R. 1164 ,

Anderson Creek Township, 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.


James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

PERMIT NO. 43-03
AMENDMENT ISSUED 04/17/97

SOLID WASTE PERMIT
PERMIT TO CONSTRUCT
County of Harnett - Anderson Creek
Construction and Demolition Debris Landfill Unit

CONDITIONS OF PERMIT:

GENERAL

1. This permit will be in effect for five (5) years from date of amendment. Modifications to the facility may be required in accordance with rules in effect at the time of review. This permit shall not be effective unless the certified copy is filed in the Register of Deeds Office, 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 shall be returned to the Solid Waste Section and shall have indicated on it the page, book number, date of recordation and the Register's seal.
2. The approved plan is described by Attachment 1, "List of Documents for Approved Plan". Where discrepancies may exist, the most recent submittal and the Conditions of Permit shall govern. Some components of the approved plan are reiterated in the Conditions of Permit.
3. This permit is not transferable.

CONSTRUCTION

1. This permit is for development of the Construction and Demolition Landfill units, denoted as phase 1, consisting of Cells 1, 2 & 3 at the Harnett County - Anderson Creek landfill facility, in accordance with the site plan dated 29 August 1996 and received 29 August 1996).
2. This C&D unit is permitted to receive the following waste types:
 - a. Land-clearing debris as defined in G.S. 130A-290, specifically, solid waste which is generated solely from land-clearing activities, such as stumps, trees, etc.;
 - b. Inert debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock and clean soil; and
 - c. Asphalt in accordance with G.S. 130-294(m).

d. Construction and demolition debris defined as solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures.

Yard trash as defined in G.S. 130A-290, shall not be disposed in the landfill area. However, yard trash, along with land-clearing debris, may be accepted for processing in the Yard Waste Composting Area or disposed of in a LCID landfill.

3. All sedimentation/erosion control activities will 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).

4. The following requirements shall be met prior to operation of this C&D unit, (i.e. Prior to the issuance of a PERMIT TO OPERATE):

a. C&D unit preparation shall be in accordance with the construction plan, and the conditions specified herein; and construction of Phase 1 (Cells 1, 2 & 3) shall be certified by the design engineer to be constructed in accordance with the approved plans.

b. C&D unit inspection shall be made by a representative of the Division of Solid Waste Management (DSWM).

c. Signs shall be posted at the entrance to Harnett County Anderson Creek landfill, in accordance with the Access and Safety Requirements under Operation Condition No. 5 listed below.

d. Groundwater monitoring wells (see Monitoring and Reporting Requirements) shall be installed. A baseline sampling for water quality shall be performed. Well construction records and sample analysis results shall be submitted to the Section Hydrogeologist for review and approval prior to operation of the C&D unit.

OPERATION:

5. Operation of the C&D landfill unit shall conform to the operating procedures described in the approved plan, in accordance with Section .0505 of the Solid Waste Management Rules, and in accordance with the following requirements:

Waste Acceptance and Disposal

- a. The C&D unit shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, or liquid waste shall be accepted for disposal in the C&D unit.
- c. The permittee shall implement a program for the C&D unit for detecting and preventing the disposal of MSW, hazardous or liquid wastes. The program shall include, at a minimum:
 - (i) Random inspections of incoming loads or other comparable procedures;
 - (ii) Records of any inspections;
 - (iii) Training of personnel to recognize hazardous and liquid wastes;
 - (iv) Development of a contingency plan to properly manage any identified hazardous, liquid or MSW wastes; The plan must address identification, removal, storage, and final disposition of waste.

Cover Material Requirements

- a. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches 1/2 acre in size, or more often as necessitated by the nature of the waste, as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors, or water infiltration.
- b. Areas which will not have additional waste placed on them for 12 months or more, but where final termination of operations has not occurred, shall be covered with a minimum of one foot of soil cover[15A NCAC 13B .0505(3)(b)].
- c. After final termination of disposal operations at the C&D unit or major part thereof, or upon revocation of a permit, the fill areas shall be covered with at least two feet of suitable compacted earth[15A NCAC 13B .0505(3)(c)].

Access and Safety

- a. The C&D unit shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DSWM to prevent unauthorized entry.

- b. An attendant shall be on duty at the Harnett County-Anderson Creek landfill, at all times while it is open for public use to ensure compliance with operational requirements.
- c. The access road to the C&D unit shall be of all-weather construction and maintained in good condition.
- d. Dust control measures shall be implemented when necessary.
- e. Signs providing information on dumping procedures, the hours of operation, the permit number, and other pertinent information shall be posted at the entrance to Harnett County-Anderson Creek landfill.
- f. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received in the C&D unit.
- g. Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
- h. The removal of solid waste from the facility is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- i. Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein, except fiber drums containing asbestos. Asbestos waste shall be managed in accordance with 40 CFR 61.
- j. Open burning of solid waste is prohibited.
- k. The concentration of explosive gases generated by the C&D unit shall not exceed:
 - i. twenty-five percent of the limit for gases in site structures (excluding gas control or recovery system components; and
 - ii. the lower explosive limit for gases at the property boundary.

Erosion and Sedimentation Control

- a. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site of the C&D unit.
- b. Adequate sedimentation and erosion control measures shall be practiced to prevent excessive on-site erosion.
- c. 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.

Drainage Control and Water Protection Requirements

- a. Surface water shall be diverted from the operational area.
- b. Surface water shall not be impounded over or in waste.
- c. A separation distance of at least four feet shall be maintained between the C&D waste and the groundwater table.
- d. Solid waste (C&D) shall not be disposed of in water.
- e. Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to discharge of leachate to surface waters.

All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this C&D landfill unit.

6. Ground water quality for the C&D landfill unit is subject to the classification and remedial action provisions referenced in Rule .0503 (2) (d) of 15A NCAC 13B.
7. 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;
 - 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

1. Ground-water monitoring wells and monitoring requirements for the C&D landfill unit:
 - a. Monitoring well design and construction shall conform to the specifications outlined in, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities-DRAFT" and water quality sampling and analysis shall be done in accordance with Construction and Demolition landfills and Closed Sanitary Landfills
 - b. A total of three locations; CDMW-1,2,3 [in accordance with the approved Construction Plan as illustrated on page 1B of 6 shall be established to monitor the C&D unit.

- c. A geologist shall be in the field to supervise well installation. 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. For each monitoring well constructed, a well completion record shall be submitted to DSWM within 30 days upon completion.
 - e. Prior to the acceptance of any waste at the C&D unit, a baseline sampling event shall be completed and analysis submitted to the SWS Hydrogeologist.
 - f. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document, (Monitoring and Reporting Requirements, #1, item a, pg. 9) or the current guidelines established by DSWM at the time of sampling.
 - g. In order to determine ground-water flow directions and rates, each monitoring well shall be surveyed, and hydraulic conductivity values and effective porosity values shall be established for the screened intervals for each monitoring well.
 - h. The permittee shall sample the monitoring wells semi-annually or as directed by the SWS Hydrogeologist.
 - i. A readily accessible unobstructed path shall be initially cleared and maintained so that four-wheel drive vehicles may access the monitoring wells at all times.
2. The permittee 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 DSWM in a timely manner.
 3. The permittee 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.
 4. On or before 01 August 96, and each year thereafter, the permittee shall report the amount of waste received (in tons) at the C&D unit and disposed of 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.

This report shall include the following information:

- a. The reporting period shall be for the previous year, beginning 01 July and ending on 30 June;

- b. The amount of waste received and landfilled in tons, compiled on a monthly basis, according to Condition 3, page 10, described above; and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
5. All records shall be maintained on-site and made available to the SWS upon request.
6. Based on the second ground water sampling event (sample date 28 February 1997) and the results of that event dated 5 March 1997, the Solid Waste Section recommends that Harnett County and or it's sampling contractor take every precaution to insure accurate sampling techniques and analytical protocols. Based on the analytical results of the 28 February 1997 sampling event; if future ground water samples indicate ground water quality impacts, then the Section may require assesment monitoring and or possible remedial activities.

ATTACHMENT 1

County of Harnett - Anderson Creek

List of Documents for the Approved Plan

1. Site and Construction Plans/Application for Harnett County-Anderson Creek Landfill, Construction and Demolition Landfill Phase 1(Cells 1&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, & 3 for Phase I. Also, with this document are the second sampling results for the baseline sample.