

96012002

WAYNE Co. 2002

North Carolina
Department of Environment and Natural Resources



Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Director

December 30, 2002

Mr. Lloyd Cook, Director
Wayne County Solid Waste Management
P.O. Box 227
Goldsboro, North Carolina 27533-0227

Subject: Wayne County MSWLF Facility Transition Plan Modification for
Permit #96-01; Modification #2: 1 year operational extension.

Dear Mr. Cook:

The Solid Waste Section hereby approves the modification of the referenced MSWLF Facility permit to allow the construction and operation of a CONSTRUCTION & DEMOLITION LANDFILL UNIT, Phase 1 (SHEET NO. 1 of 5/DRAWING NO. E1 drawings dated 2 October 2002) at the Wayne County landfill. The operation of Phase 1 is effective 30 December 2002 and the operational permit for Phase 1 Area will be valid until 1 January 2004 (see Condition Number 2, Page 1).

Please note operational conditions outlined on pages four thru nine, for the facility, specifically conditions 12 (c) and 18 that addresses the closure requirements for the cap over the C&D waste. The MSW landfill was closed with a cap design consisting of a soil cap with a permeability less than or equal to 1×10^{-5} cm/sec. and a final top slope of 5%. In accordance with .1627(c)(1) a cap of equal or less permeability than the base shall be installed. Likewise, a new alternative cap can be proposed consistent with .1627(c)(2) that may consist of a geomembrane/geosynthetic clay liner/geonet system that is less infiltrative than the cap placed over the closed MSW waste. The average permeability of the compacted clay soils placed over the MSW waste shall be used as the baseline for determining the infiltration rate for the existing base verses the proposed final cap over the C&D waste. In areas of the C&D landfill footprint where only two feet of final cover was required (areas that received MSW and where cap/closed prior to 8 October 1991), then the minimum cap requirements will be consistent with .1627(c)(1).

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-733-0692 \ FAX: 919-733-4810 \ Internet: www.enr.state.nc.us/

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Mr. Cook
Page 2
December 30, 2002

The Waste Management Specialist for this facility is Mr. Chuck Boyette and he can be reached in our Washington Regional Office at (919) 946-6481.

If you have any questions about this approval letter, please contact me at (919) 733-0692 Ext. 255.

Sincerely,

A handwritten signature in black ink that reads "Jim Barber". The signature is written in a cursive style with a large initial "J" and "B".

Jim Barber
Permitting Supervisor
Permitting Branch
Solid Waste Section

cc: Mark Fry
Chuck Boyette
Raleigh Central Office: Wayne County MSW Facility Transition Plan Permit #
26-01.

PERMIT NUMBER: 96-01
DATE MODIFIED(#1/PTO): 12/30/97
DATE MODIFIED(#2/1 yr ext): 12/30/02

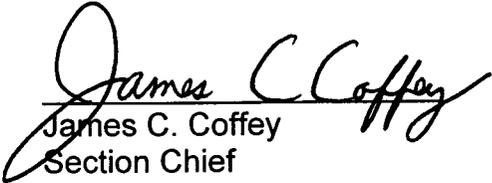
STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
1646 MAIL SERVICE CENTER; RALEIGH, NC 27699-1646

SOLID WASTE PERMIT

COUNTY OF WAYNE

is hereby issued a permit to operate PHASE 1 of a
Construction and Demolition Landfill Unit

located on S.R. 1129, at the Wayne County Landfill, Dudley, Wayne County 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
Section Chief
Solid Waste Section
Division of Waste Management

PERMIT NUMBER: 96-01
DATE MODIFIED(#1/PTO): 12/30/97
DATE MODIFIED(#2/1 yr ext): 12/30/02

SOLID WASTE PERMIT
Permit to Operate
Wayne County Landfill
Construction and Demolition Debris Landfill Unit

CONDITIONS OF PERMIT:

GENERAL

1. When this property is sold, leased, conveyed or transferred, the deed or other instrument of transfer shall 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.
2. This permit will be valid until 1 January 2004, as per memorandum dated 1 April 2002 from the Solid Waste Section. Modifications to the facility may be required in accordance with rules in effect at the time of review.
3. 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.
4. This permit is not transferable.
5. The Financial Assurance Instrument(FAI) for this facility shall be amended when Closure Certification has been complete and the Closure/Post-Closure Care portion of the instrument is amended. The FAI shall be reviewed and updated annually for this facility once closure of the MSW unit is complete.
6. If during the operational life of the C&D unit it becomes apparent that the operations at the facility are impacting ground water adversely; the Solid Waste Section will require landfilling activities to cease and closure of the operating unit.

CONSTRUCTION AND OPERATION

7. This permit is for development of the Wayne County Landfill Construction and Demolition Unit, Phase I in accordance with SHEET NO. 1 OF 5/DRAWING NO. E1 dated 2 October 2002.

8. This solid waste management facility 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.
 - e. C&D like waste that are similar to wastes typically found in the land clearing-inert debris and C&D waste streams consisting of wastes at this time: roofing shingle waste from the manufacturer, waste building materials from mobile home/modular home manufacturer and wooden pallets. Other wastes **MAY** be approved by the Division upon receipt of a written request with the specific waste type, how its generated, how much is generated; along with any additional information the Division may request to render a final decision on the disposal options for the waste.
- 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.
9. 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 landfill.
10. The following requirements shall be met prior to and during operation of Phase 1 at this facility:
- a. Site preparation and or closure of that area of the MSW unit shall be in accordance with the construction plans(dated 12/10/97).
 - b. Signs shall be posted at the facility in accordance with the Access and Safety Requirements under Operation Condition No. 5 listed below.
 - c. The existing groundwater monitoring system will be utilized for ground water monitoring for the C&D unit(s) in accordance with .1630 thru .1633. Assessment monitoring shall continue in accordance with Solid Waste Management Rules and any additional requirements set forth by Solid Waste Section Hydrogeologist.
 - d. Closure certification and documentation shall be submitted to the Solid Waste Section and a approved by the Section prior to receiving C&D waste in the proposed unit(s).Partial closure of units will be accepted with certification and documentation of partial unit closure submitted for approval. Seeding and stabilization of cover soils shall be performed prior to receiving C&D waste.

11. Operation of the C&D landfill units shall conform to the operating procedures described in the approved plan, in accordance with Section .1626 of the Solid Waste Management Rules, and in accordance with the following requirements:

Waste Acceptance and Disposal

- a. The facility shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, industrial waste, liquid waste or waste not characterized as LCID or C&D shall be accepted for disposal.
- c. The permittee shall implement a program at the facility for detecting and preventing the disposal wastes listed in item "b" of this section. 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 wastes listed in item "b" of this section; the plan must address identification, removal, storage, and final disposition of waste.

12. 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 ½ acre in size or more often as necessitated by the nature of the waste so 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.
- c. After final termination of disposal operations at the site or major part thereof, or upon revocation of a permit, the fill areas shall be covered with a cap in accordance with .1627(c)(1) or .1627(c)(2) in accordance with the rules at the time of closure.

13. Access and Safety

- a. The facility shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DWM to prevent unauthorized entry.
- b. An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- c. The access road to the site 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 site entrance.
 - f. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received.
 - 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.
 - j. Open burning of solid waste is prohibited.
 - k. The concentration of explosive gases generated at the facility 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 facility boundary.
14. Erosion and Sedimentation Control
- a. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site.
 - 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 development.
15. 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 waste and the ground-water table.
 - d. Solid waste 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.
16. All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this C&D landfill unit in accordance with G.S. 130A-309.25 and addressed by memorandum dated 29 November 2000(enclosed).

17. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in Rule .1634 thru .1637 of 15A NCAC 13B.
18. 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 facility 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; using the cap requirements outlined in Rule .1627(c)(1) or .1627(c)(2);
 - 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

19. Ground-water monitoring wells and monitoring requirements for the C&D landfill units shall be in accordance with the monitoring system approved in the TRANSITION PLAN for the facility and these additional conditions:
 - a. Monitoring well design and construction shall conform to the specifications outlined in Attachment 2, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities".
 - b. A geologist shall be in the field to supervise well installation, if necessary. 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 for new monitoring wells.
 - c. For each new monitoring well constructed, a well completion record shall be submitted to DWM within 30 days upon completion.
 - d. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document, (Attachment 2), or the current guidelines established by DWM at the time of sampling and in accordance with the approved TRANSITION PLAN OR ASSESSMENT AND REMEDIATION PLAN.
 - e. 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 new monitoring well.
 - f. The permittee shall sample the monitoring wells semi-annually or as directed by the SWS Hydrogeologist.
 - g. 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.

20. 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 DWM in a timely manner.
21. The permittee shall maintain a record of the amount of solid waste received at the facility, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.
22. On or before 1 August 2003 (or an earlier date as requested by the Solid Waste Section), and each year thereafter, the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill 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 6 described above; and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
23. All records shall be maintained on-site and made available to the SWS upon request.
24. The Post-Closure plan approved in the TRANSITION PLAN shall be implemented and followed upon capping and closing the operating unit(s).

ATTACHMENT 1

List of Additional Documents for the Approved Transition Plan

1. Modification #1: Site and Construction Transition Plan modification application for the Wayne County, Permit # 96-01. Document titled "Construction and Demolition Landfill for Wayne County North Carolina", dated 2 December 1997 and received 12 December 1997.
2. Modification #2: Permit document dated 1 October 2002 requesting the operations of the C&D unit be extended for one year for Phase 1, per SHEET NO. 1 of 5/DRAWING NO. E1 to an elevation of 190' msl.

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

**Municipal
Services**



**Engineering
Company, P.A.**

PO Box 97, Garner, North Carolina 27529 (919) 772-5393

PO Box 349, Boone, North Carolina 28607 (828) 262-1767

October 1, 2002

Mr. Jim Barber, Supervisor Permits
Solid Waste Section
NC DENR
401 Oberlin Road, Ste. 150
Raleigh, NC 27605

Re: Wayne County Construction and Demolition Landfill

Dear Mr. Barber:

Please find enclosed three (3) copies of the revised operation plans for the permit renewal for the above referenced construction and demolition landfill. Also enclosed are life expectancy calculations based on surveys recently done to determine the amount of construction and demolition disposed since the last survey. The plans and the calculations are broken down by phases with the first phase being approximately one year and along with the remaining phases; the total life expectancy is approximately five years.

If you have any questions or need more information, please do not hesitate to call.

Sincerely yours,
MUNICIPAL ENGINEERING SERVICES CO., PA

D. Wayne Sullivan
Project Manager

Copy: Mr. Lloyd Cook

LIFE EXPECTANCY CALCULATIONS
WAYNE COUNTY C & D
LANDFILL EXPANSION

Given:

Based on the survey data for August 19, 2002 Wayne County averages approximately 30,201 yd³ per year therefore:

*Landfill Volume Available Phase 1:	= 24,498 cubic yards
*Landfill Volume Available Phase 2:	= 30,417 cubic yards
*Landfill Volume Available Phase 3:	= 32,852 cubic yards
*Landfill Volume Available Phase 4:	= 32,692 cubic yards
*Landfill Volume Available Phase 5:	= 34,968 cubic yards

Total Site Volume:

Life Expectancy Phase 1	= 24,498 cubic yards ÷ 30,201 cubic yards	= 0.81 years
Life Expectancy Phase 2	= 30,417 cubic yards ÷ 30,201 cubic yards	= 1.01 years
Life Expectancy Phase 3	= 32,852 cubic yards ÷ 30,201 cubic yards	= 1.09 years
Life Expectancy Phase 4	= 32,692 cubic yards ÷ 30,201 cubic yards	= 1.08 years
Life Expectancy Phase 5	= 34,968 cubic yards ÷ 30,201 cubic yards	= 1.16 years
Total Expansion		= 5.15 years

*Determined by Autodesk 14 computer program.

North Carolina
Department of Environment and Natural
Resources



Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Director

February 20, 2002

Mr. Lloyd Cook, Director
Wayne County Solid Waste Management
P.O. Box 227
Goldsboro, North Carolina 27533-0227

Subject: Wayne County MSWLF Facility Transition Plan Modification for Permit # 96-01.
Modification #5: C&D on closed MSWLF Unit, Phase I, additional capacity to reach 5 year
operational window beginning 30 December 1997 and ending 30 December 2002 in
conjunction with Modifications #3 and #4.

Dear Mr. Cook:

The Solid Waste Section hereby approves the modification of the referenced MSWLF Facility permit to allow for additional operating capacity, to reach the five year operating window, of the CONSTRUCTION & DEMOLITION LANDFILL UNIT, Phase I (see sheets 1 of 2 and 2 of 2/E1) drawings dated 23 August 2001, received 28 August 2001 for the Wayne County landfill in conjunction with modification #4 dated 23 January 2001 and modification #3 dated 20 January 2000. The revised operations of Phase I (based on the 23 August 2001 plans) and Phase II (based on the July 1999 plans received 5 October 1999, is approved until 30 December 2002. If waste volumes increase or estimated in-place densities are not achieved; amendment of the facility plans may be necessary prior to the end of the operating window of five years, ending 30 December 2002. The facility permit will be reviewed every five years, on or before 30 December 2002 (see Condition Number 2, Page 1).

Please note operational conditions outlined on pages one thru five for the facility. The Waste Management Specialist for this facility is Mr. Chuck Boyette and he can be reached in our Washington Regional Office at (919) 946-6481.

If you have any questions about this approval letter, please contact me at (910) 486-1541 or (919) 733-0692 EXT: 344 or James C. Coffey at (919) 733-0692 Ext. 255.

Sincerely,

Jim Barber
Eastern Area Engineer
Solid Waste Section
Division of Waste Management

cc: Jim Coffey Mark Fry
Chuck Boyette ✓ Raleigh Central Office: Wayne County MSW Facility Transition
Plan Permit #96-01.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-733-4996 \ FAX: 919-715-3605 \ Internet: www.enr.state.nc.us

PERMIT NUMBER: 96-01
ORIGINAL DATE ISSUED (PTO): 12/30/97
MODIFICATION #5 (PTO) DATED: 10/30/01

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

1646 MAIL SERVICE CENTER; RALEIGH, NC 27699-1646

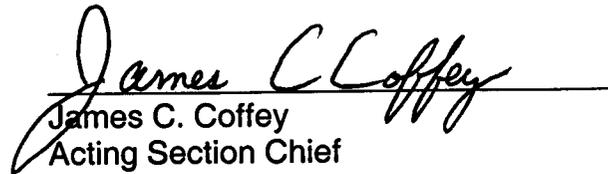
SOLID WASTE PERMIT

COUNTY OF WAYNE

is hereby issued a PERMIT TO OPERATE PHASE I AND II of a

Construction and Demolition Landfill Unit

located on S.R. 1129, at the Wayne County Landfill, Dudley, Wayne County 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
Acting Section Chief
Solid Waste Section
Division of Waste Management

PERMIT NUMBER: 96-01
ORIGINAL DATE ISSUED(PTO): 12/30/97
MODIFICATION #5(PTO) DATED: 10/30/01

SOLID WASTE PERMIT

Permit to Operate

Wayne County Landfill

Construction and Demolition Debris Landfill Unit - PHASE I & PHASE II

CONDITIONS OF PERMIT:

GENERAL

1. When this property is sold, leased, conveyed or transferred, the deed or other instrument of transfer shall 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.
2. This permit will be subject to review every five years, on or before 30 December 2002, as per 15A NCAC 13B .0201(c) or sooner, according to the issuance date of this permit. Modifications to the facility may be required in accordance with rules in effect at the time of review.
3. 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.
4. This permit is not transferable.
5. The Financial Assurance Instrument(FAI) for this facility shall be amended when Closure Certification has been complete and the Closure/Post-Closure Care portion of the instrument is amended. The FAI shall be reviewed and updated annually for this facility once closure of the MSW unit is complete.
6. If during the operational life of the C&D unit it becomes apparent that the operations at the facility are impacting ground water adversely; the Solid Waste Section will require landfilling activities to cease and closure of the operating unit.

CONSTRUCTION AND OPERATION

7. This permit is for development of the Wayne County Landfill Construction and Demolition Unit, Phase I in accordance with the revised approved plans (sheets 1 of 2 and 2 of 2/E1 dated 23 August 2001 and received 28 August 2001) and Phase II area based on plans dated July 1999. These areas of operation are approved until 30 December 2002. Additional disposal capacity may be approved for future phases based on operational requirements, amended calculations indicating need for additional capacity and or Solid Waste Section policy on future disposal operations at closed MSWLF units disposing of C&D waste.

8. This solid waste management facility 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.
 - e. C&D like waste that are similar to wastes typically found in the land clearing-inert debris and C&D waste streams consisting of wastes at this time: roofing shingle waste from the manufacturer, waste building materials from mobile home/modular home manufacturer and wooden pallets. Other wastes **MAY** be approved by the Division upon receipt of a written request with the specific waste type, how its generated, how much is generated; along with any additional information the Division may request to render a final decision on the disposal options for the waste.

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.

9. 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 landfill.
10. The following requirements shall be met prior to operation of Phase I and II at this facility:
- a. Site preparation and or closure of that area of the MSW unit shall be in accordance with the construction plans(dated 12/10/97).
 - b. Signs shall be posted at the facility in accordance with the Access and Safety Requirements under Operation Condition No. 5 listed below.
 - c. The existing groundwater monitoring system will be utilized for ground water monitoring for the C&D unit(s) in accordance with .1630 thru .1633. Assessment monitoring shall continue in accordance with Solid Waste Management Rules and any additional requirements set forth by Solid Waste Section Hydrogeologist.
 - d. Closure certification and documentation shall be submitted to the Solid Waste Section and a approved by the Section prior to receiving C&D waste in the proposed unit(s).Partial closure of units will be accepted with certification and documentation of partial unit closure submitted for approval. Seeding and stabilization of cover soils shall be performed prior to receiving C&D waste.

11. Operation of the C&D landfill units shall conform to the operating procedures described in the approved plan, in accordance with Section .1626 of the Solid Waste Management Rules, and in accordance with the following requirements:

Waste Acceptance and Disposal

- a. The facility shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, industrial waste, liquid waste or waste not characterize as LCID or C&D shall be accepted for disposal.
- c. The permittee shall implement a program at the facility for detecting and preventing the disposal wastes listed in item "b" of this section. 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 wastes listed in item "b" of this section; the plan must address identification, removal, storage, and final disposition of waste.

Cover Material Requirements

12. a. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches ½ acre in size or more often as necessitated by the nature of the waste so 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.
- c. After final termination of disposal operations at the site or major part thereof, or upon revocation of a permit, the fill areas shall be covered with a cap in accordance with .1627(c) or in accordance with the rules at the time of closure.

Access and Safety

13. a. The facility shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DWM to prevent unauthorized entry.
- b. An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- c. The access road to the site 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 site entrance.
- f. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received.
- 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.
- j. Open burning of solid waste is prohibited.
- k. The concentration of explosive gases generated at the facility 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 facility boundary.

Erosion and Sedimentation Control

- 14. a. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site.
- 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 development.

Drainage Control and Water Protection Requirements

- 15. 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 waste and the ground-water table.
 - d. Solid waste 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.
- 16. All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this landfill.
 - 17. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in Rule .1634 thru .1637 of 15A NCAC 13B.

18. 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 facility 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; using the cap requirements outlined in Rule .1627
 - 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

19. Ground-water monitoring wells and monitoring requirements for the C&D landfill units shall be in accordance with the monitoring system approved in the TRANSITION PLAN for the facility and these additional conditions:
- a. Monitoring well design and construction shall conform to the specifications outlined in Attachment 2, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities".
 - b. A geologist shall be in the field to supervise well installation, if necessary. 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 for new monitoring wells.
 - c. For each new monitoring well constructed, a well completion record shall be submitted to DWM within 30 days upon completion.
 - d. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document, (Attachment 2), or the current guidelines established by DWM at the time of sampling and in accordance with the approved TRANSITION PLAN OR ASSESSMENT AND REMEDIATION PLAN.
 - e. 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 new monitoring well.
 - f. The permittee shall sample the monitoring wells semi-annually or as directed by the SWS Hydrogeologist.
 - g. 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.
20. 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 DWM in a timely manner.

21. The permittee shall maintain a record of the amount of solid waste received at the facility, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.
22. On or before 01 August 2001 (or an earlier date as requested by the Solid Waste Section), and each year thereafter, the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill 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 6 described above; and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
23. All records shall be maintained on-site and made available to the SWS upon request.
24. The Post-Closure plan approved in the TRANSITION PLAN shall be implemented and followed upon capping and closing the operating unit(s).
25. All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this C&D landfill unit in accordance with G.S. 130A-309.25 and addressed by memorandum dated 29 November 2000(enclosed).

CERTIFIED COPY OF SOLID WASTE PERMIT

I do hereby certify that the attached PERMIT is an exact and true copy of Permit No. 96-01.

James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

North Carolina

_____ County

I, _____, a Notary Public for said County and State,
do hereby certify that _____, Solid Waste Section, personally
appeared before me this day and acknowledged the due execution of the foregoing
instrument.

Witness my hand and official seal, this the _____ day of
_____, 1997.

OFFICIAL SEAL

NOTARY PUBLIC

My commission expires _____, _____.

ATTACHMENT 1

List of Additional Documents for the Approved Transition Plan

1. Site and Construction Transition Plan modification application for the Wayne County, Permit # 96-01. Document titled "Construction and Demolition Landfill for Wayne County North Carolina", dated 2 December 1997 and received 12 December 1997.
2. Revised C&D landfill operations plan dated July 1999; received 5 October 1999. This amendment addresses the need for additional disposal capacity in phase II due to hurricane relate waste volumes.
3. Revised C&D landfill drawings dated 24 October 2000 and received 31 October 2000.
4. Modification #5: Revised Phase I operating area to allow for operational capacity until 30 December 2002, based on increased waste receipt due to Hurricane Floyd and Hurricane Fran clean-up.

Subject: Wayne Co. C&D

Date: Tue, 22 Jan 2002 13:04:24 -0500

From: "Wayne Sullivan" <wsullivan@mesco.com>

To: "Jim Barber" <jim.barber@ncmail.net>

Jim, I am wondering if you have had a chance to look at the Wayne County Permit for the C&D to determine if it was permitted for both phases as we submitted it. Thanks Wayne