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26-10 TP

## 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

December 23, 2004

Mr. W. Michael Brinchek, P. E.  
Camp Dresser & McKee  
5400 Glenwood Avenue, Suite 300  
Raleigh, North Carolina 27612

Dear Mr. Brinchek:

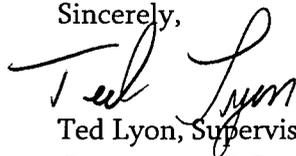
The Division of Waste Management, Solid Waste Section, has reviewed the application you submitted for the Wilkes Road Yard Waste Treatment and Processing Facility. We have also conducted a site inspection of the facility, which is already operating. The application is incomplete for at least the following reasons:

1. An aerial photograph scale 1 inch = 400 feet or less showing an area at least 1000 feet around the facility was not included in the application.
2. A vicinity map was not included indicating the facility location and local roads.
3. Documentation must be provided that the existing demolition landfill is closed in accordance with the Solid Waste Rules.
4. The existing erosion and runoff control plan is inadequate. The ditch adjacent to Wilkes Road appears to be flowing to the east, not to the sediment trap referred to in the application. There is no written documentation in the application of an approved erosion and runoff control plan for the entire facility from the Division of Land Resources, Land Quality Section. If a plan is not necessary please provide written documentation to that fact from the Land Quality Section.
5. If an erosion and runoff control plan is not required the plan must include the methods to be used for stabilizing soil in swales and setback areas. This should include vegetation type, stand specification, a seeding schedule, and revegetation methods.
6. The application does not indicate that all material will be maintained at least 50 feet from the property lines and 50 feet from the ditch adjacent to Wilkes Road.
7. The application did not include a legal description of the property or a copy of the deed.
8. There is no plan for managing trash that is inadvertently received with the yardwaste. This would include plastic, paper, metal and glass items delivered with loads that are usually too small to be noticed during receiving or unloading. The plan should include the location of containers for storage of this waste on site.
9. The application does not indicate the length of time that each of the materials are anticipated to be on site prior to processing and removal to market or disposal.

10. Pile sizes of materials received and ground should be reduced to avoid the possibility of spontaneous combustion. Pile or windrow sizes generally should not exceed 25 to 30 feet in width and 15 feet in height.
11. The site plan did not indicate where wood chips are proposed to be colored, operation procedures for coloring the chips or a contingency plan for dealing with a dye spill.
12. Examples of record keeping forms and an annual report should be included in the application. It should be noted that annual reports are due by August 1 for the previous July 1 through June 30.
13. The operation plan should outline how customers will be directed to the proper areas to unload in order to avoid problems such as the stumps on the east end of the pile of pallets.
14. A contingency plan is needed for periods when more waste is delivered to the facility than can be processed and hauled out.
15. The site plan submitted with the application is unacceptable for at least the following reasons:
  - The scale is not provided. The minimum scale is 1 inch = 100 feet.
  - Neither the ditch adjacent to Wilkes road nor the various drainage swales on the site are located on the plan.
  - Areas for equipment storage, battery and motor oil drop off and household waste drop off that are on the property between the demolition landfill and the exit road are not on the site plan.
  - The product screen is not located on the plan.
  - A pile of primarily stumps located at the east end of the facility (east of the pallets) is not located on the site plan.
  - The residential, commercial and overflow stockpile areas are separated on the site plan but in actuality run together on the site. These areas should be properly located on the site plan.
  - There is an area of concrete, dirt and some tires located east of the tire drop off area. This needs to be located on the site plan and addressed in the application or cleaned up.
  - An area of yard waste located south of the household drop off area needs to be cleaned up or located on the site plan and explained in the application.
  - The portion of the property located adjacent to NC-87 that appears to be too wet to use should be delineated on the site plan.

We will continue our review of the application for a permit for this facility when these issues have been addressed. If you have any questions concerning this review please feel free to contact me at 919-733-0692, ext. 253.

Sincerely,



Ted Lyon, Supervisor

Composting & Land Application Branch

Cc: Dennis Shackelford, Waste Management Specialist, Fayetteville Regional Office  
Jim Barber, Environmental Supervisor, Raleigh Central Office

H/Cla/T&P/AppRev/26-Cumberland/WilkesRdApp\_12-04

T & P / App rev / 26 - Cumberland (Wilkes Rd app - 12 mg)  
26-10 TP

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3. The existing erosion and runoff control plan is inadequate. The ditch adjacent to Wilkes Road appears to be flowing to the east, not to the sediment trap referred to in the application. There is no written documentation in the application of an approved erosion and runoff control plan for the entire facility from the Division of Land Quality. *Land Resource Land Quality Section*
4. The application does not indicate that all material will be maintained at least 50 feet from the property lines and 50 feet from the ditch adjacent to Wilkes Road.
5. The application did not include a legal description of the property or a copy of the deed.
6. There is no explanation of how trash delivered with the yardwaste will be managed. This would include plastic, metal and glass items delivered with loads that are usually too small to be noticed during receiving or unloading. *??*
7. The application does not indicate the length of time that each of the materials are anticipated to be on site prior to processing and removal to market or disposal.
8. Pile sizes of materials received and ground should be reduced to avoid the possibility of spontaneous combustion. *(received ground materials)*
9. The site plan did not indicate where wood chips are proposed to be colored or operation procedures for coloring the chips.
10. Examples of record keeping forms and an annual report should be included in the application. It should be noted that annual reports are due by August 1 for the previous July 1 through June 30.
11. The operation plan should outline how customers will be directed to the proper areas to unload in order to avoid problems such as the stumps on the east end of the pile of pallets. *currently located at one east end*

12. The site plan submitted with the application is unacceptable for at least the following reasons:

- The scale is not provided. The minimum scale is 1 inch = 100 feet.
- Neither the ditch adjacent to Wilkes road nor the various drainage swales on the site are located on the plan.
- Areas for equipment storage, battery and motor oil drop off and household waste drop off that are <sup>located / shown</sup> on the property between the demolition landfill and the exit road are not on the site plan.
- The product screen is not located on the plan.
- A pile of primarily stumps located at the east end of the facility (east of the pallets) is not located on the site plan.
- The residential, commercial and overflow stockpile areas are separated on the site plan but in actuality run together on the site. These areas should be properly located on the site plan.
- There is an area of concrete, dirt and some tires located east of the tire drop off area. This needs to be located on the site plan and addressed in the application or cleaned up.
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We will continue our review of the application for a<sup>?</sup>the permit for this facility when these issues have been addressed. If you have any questions concerning this review please feel free to contact me at 919-733-0692, ext. 253.

T1

Dennis Shackelford  
Jim Barbour

- A VICINITY MAP SHOULD BE PROVIDED
- A SEEDING SCHEDULE IS NEEDED TO INDICATE REVEGETATION METHODS
- A CONTINGENCY PLAN IS NEEDED IN THE EVENT MORE MATERIAL IS BEING BROUGHT IN THAN IS BEING PROCESSED AND HAULED OUT. ✓
- I DID NOT SEND A NOU AFTER OUR VISIT. I DID GIVE AN AUDIT REPORT WITH A SHORT DEADLINE FOR CORRECTION. I NEED TO REVISIT THE SITE THIS WEEK.

THANKS TED

Dave

TED

I HAD A FEW COMMENTS

#3 COMMENT THAT A SITE PLAN MAY BE NEEDED IF THE DISTURBANCE EXCEEDS ONE ACRE.

#6 WASTE, PLASTIC, PAPER ETC NEEDS TO BE IN APPROVED CANS.

#7 HOW LONG WOULD WE ALLOW THE MATERIAL TO JUST SIT, FOR EXAMPLE A TIME LIMIT ON MATERIAL DELIVERED TO SITE THAT IS TO BE PROCESSED. - 3 MONTHS?

#8 CAN WE REQUIRE A MAXIMUM SIZE OF PILES AND ALSO A SEPARATION BETWEEN PILES FOR FINE CONTROL

- THE PILES OF DEBRIS ARE IN THE PROCESS OF BEING CLEANED UP AND RETURNED TO THE PROCESSING AREA.

- THE DIRECTOR SAID HE WAS GOING TO RELOCATE THE TINES TO THE LANDFILL, SO THAT WOULD NOT BE NEEDED ON THE SITE PLAN.



5400 Glenwood Avenue, Suite 300  
Raleigh, North Carolina 27612  
tel: 919 787-5620  
fax: 919 781-5730

26-10 TP

July 19, 2004

Mr. Jim Barber, P.E.  
Solid Waste Section  
North Carolina Department of Environment and Natural Resources  
401 Oberlin Road, Suite 150  
Raleigh, North Carolina 27605-1350

Subject: Cumberland County, North Carolina  
Wilkes Road Yard Waste Facility  
Treatment and Processing Permit

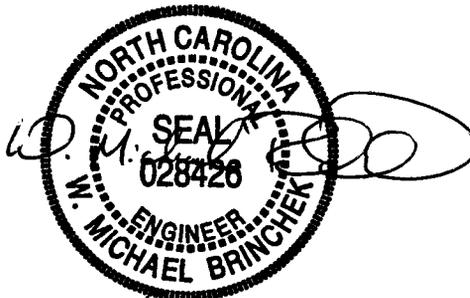
Dear Mr. Barber:

On behalf of Cumberland County, Camp Dresser & McKee (CDM) is pleased to submit two copies of the Wilkes Road Yard Waste Facility Treatment and Processing Permit Application for your review and approval. The enclosed permit application was prepared in accordance with the treatment and processing guidance document and the North Carolina Solid Waste Rules 15A NCAC 13B .0300.

If you have any questions regarding the contents of this document or need any additional information please do not hesitate to contact me at your earliest convenience.

Very truly yours,

W. Michael Brinckek, P.E.  
Camp Dresser & McKee



7/19/04

Enclosures

cc: B. Howard, Cumberland County  
D. Smith, Cumberland County  
M. Sanford, CDM

T. Yanoschak, CDM  
J. Wiseman, CDM



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*Appendix A Treatment and Processing Permit Guidance*

*Appendix B Permit No. 26-F*

*Appendix C Fire Marshall Certification*

# Section 1

## Introduction

### 1.1 Purpose

This plan has been prepared for the Cumberland County Yard Waste Facility Permit Amendment. The purpose of this plan is to provide Cumberland County with a manual that will serve as an operations guide for the Wilkes Road Yard Waste Facility. This operations plan has been prepared in accordance with the treatment and processing guidance document and the North Carolina Solid Waste Rules 15A NCAC 13B .0300. A copy of the guidance document is included as Appendix A. The North Carolina Solid Waste Rules 15A NCAC 13B .1400 were also referenced for general information. This plan addresses the following issues:

- Facility operations;
- Materials received and processed;
- Management of non-recyclable materials;
- Uses for recycled materials;
- Fire Marshall Certification;
- Equipment utilized to process and handle materials;
- Contingency plans; and
- Records indicating the inflow and outflow of material.

### 1.2 Facility Location

The Wilkes Road Yard Waste Facility (Facility) is located off Wilkes Road (S.R. 1007) west of the intersection of Wilkes Road and N.C. Highway 87. The facility is sited on approximately 51 acres of Cumberland County property. Figure 1-1 shows the general location of the facility.

### 1.3 Facility Description

The facility was permitted on July 1, 1986, by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (SWS) under Permit No. 26-F, as a Demolition Landfill. A copy of Permit No. 26-F is included as Appendix B. The 10 acre Demolition Landfill was temporarily capped using a 1-foot-thick compacted soil cover in August, 1992 by the County, for possible future materials mining. The current yard waste treatment and processing unit sited within the facility limits began operations on August 1, 1995 and is located adjacent to and east of the Demolition Landfill.

The treatment and processing unit includes the following:

- A scale house;
- Stockpile areas for residential yard waste, commercial land clearing and inert debris, wooden pallets discarded tires;
- Overflow stockpile area; and
- Landscape material processing area.

A site plan showing the approximate location of these components and the Demolition Landfill is included as Figure 1-2.

## **1.4 Service Area**

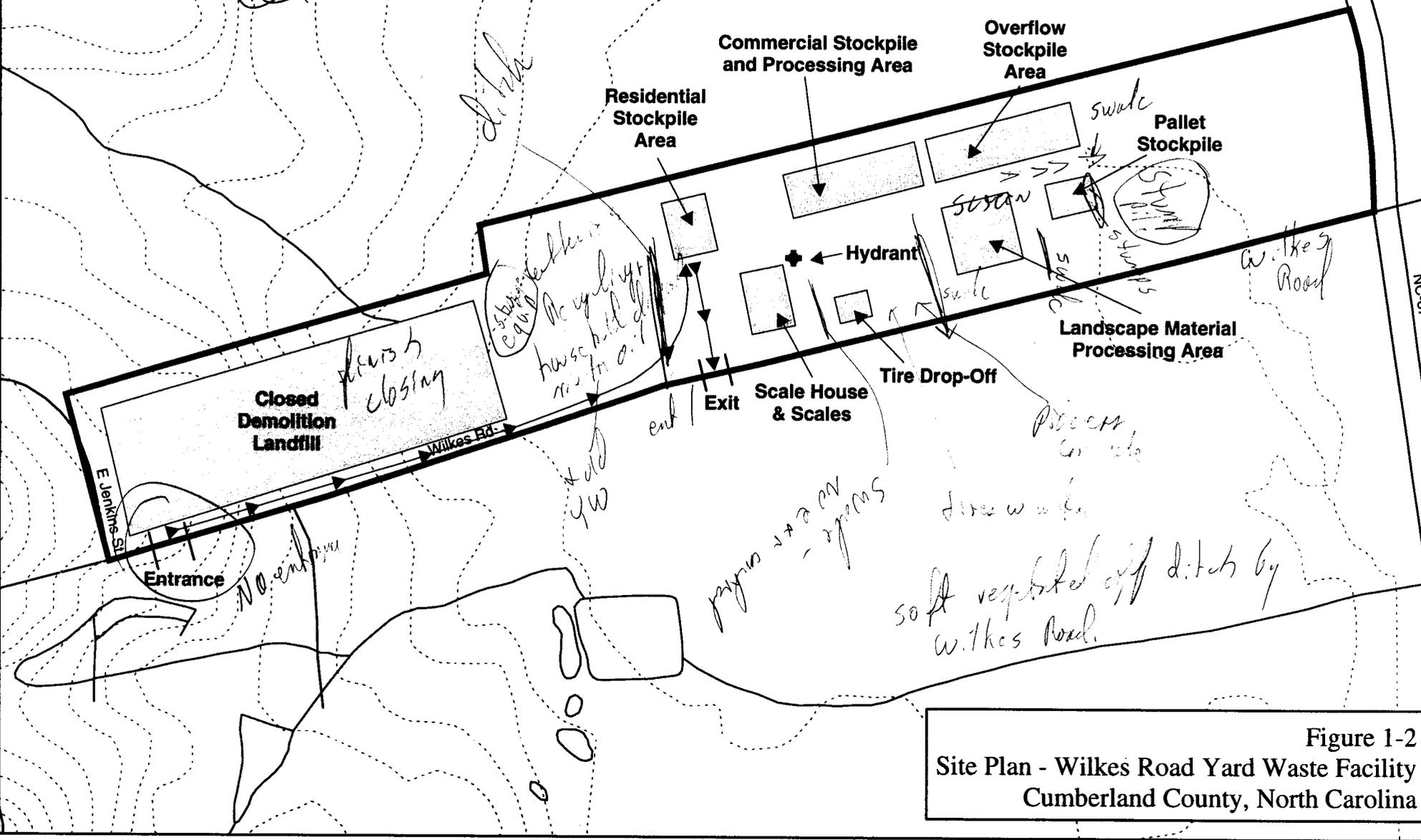
The facility currently serves all Cumberland County residents and commercial establishments. Cumberland County, approximately 658 square miles in size, includes the municipalities of Falcon, Fayetteville, Godwin, Hope Mills, Linden, Spring Lake, Stedman and Wade.



*Provide documentation listed in  
see w Sec Rules. ~~at~~*

**Legend**

- Existing Structures
- Streams
- Topography (5-ft)
- Roads
- Property Boundary
- Traffic Pattern



**Figure 1-2**  
**Site Plan - Wilkes Road Yard Waste Facility**  
**Cumberland County, North Carolina**

# Section 2

## Operations Plan

### 2.1 Facility Description

The Wilkes Road Yard Waste Facility (Facility) operates as a receiving, processing, and hauling facility for land clearing debris, yard waste, wooden pallets and discarded tires. This facility is owned by Cumberland County, North Carolina and operated by the Cumberland County Solid Waste Management Department. The facility is comprised of the following units: (1) a stockpile for commercial yard waste and land clearing debris (2) a residential stockpile for yard waste and debris, (3) a general storage area for discarded tires, (4) a stockpile area for wooden pallets, (5) an overflow storage area for raw yard waste and land clearing debris for emergency events, and (6) stockpile areas for processed waste materials.

### 2.2 Waste Acceptance and Processing Procedures

Commercial and residential haulers transporting raw waste materials enter the Facility off Wilkes Road and are directed to the weigh station. The weigh station attendant determines the weight of material to be unloaded and the associated costs to the hauler. The weigh station attendant also determines if the waste material is deemed "acceptable material" or "unacceptable material" for disposal. Haulers carrying materials that cannot be processed at the facility, "unacceptable material," are instructed to haul the material to the Ann Street Landfill for disposal. Discarded tires are only accepted from haulers showing proper permitting/identification.

Acceptable materials are received and unloaded at the appropriate stockpile. Raw materials are either processed or prepared for hauling. The raw land clearing debris and yard waste materials and wooden pallets are processed by the County personnel using a tub grinder. Discarded tires are temporarily stockpiled, but not processed at the facility. Under normal operating conditions, accepted waste materials are processed the same day this it is received by the facility.

Processed clearing debris and yard waste materials are stockpiled for either hauling or further processing as screened landscape material. Unscreened grinding materials, commonly referred to as "boiler material", are removed from the site by commercial users at no cost. Screened landscape material and grinding material from wooden pallets are sold to residential and commercial haulers. Stockpiled tires are removed from the site and processed by Central Carolina Tire.

#### 2.2.1 Estimated Quantities of Waste

The facility receives and processes on average approximately 70 to 80 tons of total waste per day, with a current capacity to receive and process approximately 150 tons per day. Approximately one ton of all incoming waste material per day is composed of wooden pallets. Discarded tires accounts for less than a ton of all incoming waste

material per day. The remaining material is commercial and residential land clearing debris and yard waste material.

In response to an emergency event, as described in Section 2.8, the facility is capable of processing and/or storing up to approximately 200 tons of materials per day.

### **2.2.2 Uses of Recycled Materials**

The recycled materials at the facility consist of screened and unscreened grinded material (mulch) from the land clearing debris, yard waste material and wood chips from the wooden pallets. Unscreened grinded materials from land clearing debris and yard waste materials are provided as "boiler fuel" to commercial haulers at no cost. Screened materials and wood chips are sold to commercial and residential haulers. The discarded tires are recycled at a later time offsite by Central Carolina Tire.

### **2.2.3 Management of Non- Recyclable Materials**

There are no non-recyclable materials generated by the facility except incidental trash. The incidental trash is disposed of in approved containers and hauled to the Ann Street Subtitle D Landfill.

## **2.3 Operating Hours**

The facility is open from 8:00 am to 4:00 pm Monday through Saturday, except on County holidays. Materials processing is generally conducted during hours of operation. In response to an emergency event as described in Section 2.8, the hours of operations remain the same, but materials processing may be extended to handle the additional materials until conditions return to normal.

## **2.4 Operating Equipment**

The facility utilizes the following equipment on a daily basis:

- 1 - Excavator
- 1 - Dozer
- 1 - Track Loader
- 1 - Wheel Loader (6 cylinder)
- 1 - Wheel Loader (3 cylinder)
- 1 - 5,000 Gallon Water Tanker
- 1 - Tub Grinder
- 1 - Power Screen

The County is also in the process of acquiring an additional tub grinder that will allow for increased processing capacity and color to be added to the wood chips produced.

## 2.5 Operating Personnel

The Facility currently utilizes a staff composed of 5 personnel. One employee operates the weigh station, while the other four employees are utilized in equipment operation and processing of the waste material.

## 2.6 Drainage Control

Surface water runoff shall be diverted from the operational areas. Excessive surface water creates difficulties for maneuvering equipment. Temporary diversion berms and drainage channels shall be employed to divert water from the operational areas as necessary. In addition, all operational areas shall be properly graded to prevent ponding of surface water and allow surface water runoff in a controlled manner. Grading will also be performed as required to deter ruts from occurring around stockpiles.

## 2.7 Erosion and Sedimentation Control

*hand graded by*  
Adequate sediment control measures shall be utilized to capture and control sediment prior to discharging off-site. Additionally, adequate erosion control measures shall be utilized to prevent excessive on-site erosion of slopes and roadways.

Surface water runoff passing through the operational areas shall be diverted to a sedimentation trap, located between the closed demolition landfill and yard waste area, by use of drainage channels and berms. The sedimentation trap was constructed in accordance with NCDENR guidance. The sedimentation trap has been constructed in a manner to control release of stormwater discharges without overloading downstream drainage features. Sediment accumulated within the trap shall be removed as necessary to provide proper function. The sediment trap shall be inspected weekly and after each significant rain event of 0.5 inches or greater.

## 2.8 Contingency Plans

At times when major occurrences or incidents happen outside the control of the facility personnel that drastically effect the operations of the facility, an operational contingency plan is enacted. Contingency Plans are necessary in the case of equipment failures, fire events, medical emergencies, or catastrophic events to maintain a minimal level of operational efficiency.

In the case of equipment failures, the County utilizes in-house maintenance personnel and local supplier representatives. If the maintenance of a piece of equipment requires a significant amount of time to resolve in the opinion of the personnel, then equipment can be utilized from the Ann Street Subtitle D Landfill to minimize downtime. If equipment failure ceases current operations, such as failure of the tub grinder, the County can utilize the overflow stockpile area until the equipment is

repaired. If additional equipment is required, equipment is borrowed from the Ann Street Subtitle D Landfill.

In the event of a fire the standard procedure is for facility personnel to immediately contact the Cumberland County Fire Department via the County's 911 calling system. Once the local fire department is contacted, facility personnel respond to the situation using the water tanker and onsite hydrant, until the fire department arrives.

When medical emergencies occur, local emergency medical personnel are contacted via the Cumberland County 911 calling system and other emergency contact numbers. The standard procedure is to notify immediately the proper agencies and authorities of medical emergencies at this facility. There are emergency supplies located in the onsite first aid kit that are used for immediate response to these types of emergencies until properly trained personnel arrive.

The County has operation plans in place to deal with catastrophic events that affect the increase of material disposed at the facility. For natural disasters, the County can accept up to 200 tons of acceptable waste material per day. Material not processed is temporarily placed in the overflow stockpile and is processed once operations return to normal.

In the event the of the site work area being damaged, the facility will remain in operation under a revised plan as follows. A staging area shall be created to facilitate the removal of debris and impediments from the normal work area to allow the facility personnel and equipment to eventually return to that area and resume daily activities as normal as possible.

## **2.9 Record Keeping**

The facility personnel complete material reports on daily basis to record the inflow and outflow of all materials that pass through the facility. An annual report is produced each year summarizing yearly quantities and activities and submitted to the North Carolina Department of Environment and Natural Resources (NCDENR).

## **2.10 Facility Access and Security**

### **2.10.1 Security**

Incoming raw waste material enters the facility through the entry point located near the rear of the facility. All vehicles disposing of waste at the facility enter and leave through the access control gates. All waste entering the landfill must be weighed at the scale where a full-time attendant verifies compliance with operation requirements. Unauthorized vehicle access is prevented by lockable gates at the entrance and exit and chain link fencing along the facility boundary.

### **2.10.2 Access Roads**

Facility access roads are composed of crushed stone paving and maintained in good condition.

### **2.10.3 Signage**

The State of North Carolina General Statutes state that a sign providing information on disposal procedures, operation hours, tipping fee, permit number, and other pertinent information shall be clearly posted at the site entrance. Additionally, signs shall be clearly posted stating that no hazardous or liquid waste can be received. A sign is provided that displays the facility's name and the hours of operations. The County also provides a handout to the citizens identifying all county-owned waste management sites and accepted wastes for each site. The County's website also displays information about the County's waste management sites and accepted waste materials.

### **2.11 Fire Marshall's Certification**

See appendix C for a copy of the Fire Marshall's Certification letter.

Appendix A  
Treatment and Processing  
Permit Guidance

## TREATMENT AND PROCESSING

Treatment and processing permits are issued by the Division of Waste Management, Solid Waste Section for facilities that receive wastes and treat or process those wastes for utilization by recycling, reclaiming, or for final disposal. Facilities that receive primarily organic wastes to be treated or processed for recycling or reuse in soil or plant related uses are normally permitted by the Composting and Land Application branch of the Solid Waste Section.

Facilities that receive wastes to be treated or processed for final disposal or uses that are not soil/plant related are normally permitted by the Permitting Branch of the Solid Waste Section. This would include facilities that receive inert debris or construction demolition waste and reuse a portion of the waste while disposing of the rest. Air curtain burners would be permitted by the Permitting Branch.

Requirements for Treatment and Processing Facilities that receive wastes to be treated for recycling or reuse in soil or plant related uses may be found in Section .0300 of the Solid Waste Management Rules and in this document. Included in this document are requirements for facility siting and operation and for permit applications. If part or all of the process results in heat being generated through biological means a permit to operate a compost facility will be required. Individuals wishing to compost should refer to the Solid Waste Compost Rules in Section .1400 of the Solid Waste Management Rules.

Technical assistance is also provided in this document on how to complete application requirements. Application requirements vary for these facilities based on what is being treated or processed and how it is being accomplished. Application forms are not used due to the variable requirements.

The following definitions will apply in this document.

"Land clearing waste" means solid waste which is generated solely from land clearing activities such as stumps, trees, limbs, brush, grass, and other naturally occurring vegetative material.

"High C: N ratio Yard trash" means solid waste resulting from landscaping and yard maintenance such as brush, tree limbs, and similar vegetative materials that has a C: N ratio higher than 75.

"Untreated and unpainted wood waste" means solid waste wood material that has not been glued, treated with preservatives, painted, stained, or varnished.

"Agricultural processing wastes" means materials that are derived from agricultural products that have been through a processing or receiving facility such as tobacco dust or cotton gin trash.

Treatment and processing at facilities that receive primarily organic wastes to be treated or processed for recycling or reuse in soil-plant related industries might include activities such as:

- Grinding or chipping land clearing debris, high carbon nitrogen yardwaste, and untreated and unpainted pallets or construction wood waste into mulch or boiler fuel. Certain treated wood wastes such as particleboard may also be ground or chipped into boiler fuel.
- Land clearing debris and high carbon nitrogen ratio yard waste may be piled up and allowed to decompose through natural means.

- Certain agricultural processing wastes such as tobacco dust and cotton gin trash, as well as approved coal or wood ash, untreated and unpainted wood fibers, and wall board could also be received at a treatment and processing facility for the manufacture of soil products.

Waste products other than land clearing debris and high C: N ratio yard waste will be considered for treatment and processing facilities on a case by case basis. A variety of tests may be required to determine the if a waste can be managed at a treatment and processing facility. Testing requirements may vary significantly, depending on the waste and its source. The minimum sampling requirement will be four waste analyses from the NC Department of Agriculture Lab.

All treatment and processing facilities are required to obtain a permit to construct and operate the facility unless all the following requirements are met.

- (1) Only land clearing debris, untreated and unpainted wood waste, and high C: N yard trash are managed at the facility.
- (2) The facility shall be less than 2 acres in size and shall not process or store more than 6000 cubic yards of material per three month period, or have on hand at any one time a combination of waste material and finished product that exceeds 6000 cubic yards.
- (3) The facility notifies the Division of Waste Management, Solid Waste Section annually of all activities and files an annual report with the Section.

Forms for Treatment and Processing notifications are available upon request. Treatment and processing notification sites are subject to all Federal, State, or Local laws, ordinances, rules, regulations, or orders, including but not limited to zoning restrictions, flood plain restrictions, wetland restrictions, sedimentation and erosion control requirements, and mining regulations.

Siting criteria for treatment and processing facilities are:

- (1) Facilities shall not be located in the 100-year floodplain.
- (2) Facilities or practices shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife.
- (3) Facilities or practices shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species as identified in 50 CFR Part 17 which is hereby incorporated by reference including any subsequent amendments and editions. This material is available for inspection at the Department of Environment, Health, and Natural Resources, Division of Solid Waste Management, 401 Oberlin Road, Raleigh, North Carolina 27605 where copies can be obtained at no cost.
- (4) A facility shall not be located where the permanent, seasonal or perched water table is located within 12 inches of the soil surface. Seasonal water table information shall be provided from hand auger borings, test pits or other suitable site specific methods that depicts seasonal groundwater depth at the site.
- (5) Facilities or practices shall not cause point or non-point source pollution of waters of the state that violates assigned water quality standards.
- (6) The facility shall meet the following minimum buffer requirements:
  - a) 100 feet from the waste boundary to all surface waters of the state as defined in G.S. 143-212 and all property lines.
  - b) 200 feet from the treatment and processing area to residential dwellings and commercial or public buildings.

- c) 100 feet from water supply wells.
  - d) Buffer requirements may be adjusted as necessary to insure adequate protection of public health and the environment. Buffer adjustments may vary with the method of treating or processing and the material being received at the facility.
  - e) Setbacks and seasonal water table separations may be increased if nitrogen containing, putrescible or pathogen containing wastes are managed at the facility.
- (7) The facility shall meet all requirements of any applicable zoning ordinance. In areas zoned for industrial uses horizontal setbacks may be reduced if local zoning setbacks are less and the reduction will not adversely affect the any part of the sedimentation and erosion control plan.

Operation requirements for treatment and processing facilities are:

- (1) Adequate erosion control measures, structures, or devices shall be utilized to control runoff and prevent silt or nutrients from leaving the site and to prevent excessive on site erosion. The site shall be managed in such a manner as to prevent standing water on the site to prevent the attraction of vectors.
- (2) Access roads shall be of all-weather construction and properly maintained.
- (3) A sign shall be posted at the facility entrance showing the contact name and phone number in case of an emergency.
- (4) The site shall be managed in such a manner as to avoid the attraction of vectors.
- (5) Record Keeping
- (6) An annual report shall be submitted to the Division of Waste Management, Solid Waste Section, by August 1<sup>st</sup> of each year for the previous July 1 through June 30.
- (7) Facilities that qualify as a notification site shall annually complete treatment and processing notification form. Notification forms will be provided by the Solid Waste Section upon request.

Facilities that are required to obtain a permit shall complete the requirements of Section .0300 of the Solid Waste Management Rules and provide the following information.

1. An aerial photograph, scale 1 inch is equal to 400 feet or less, showing the area for at least 1000 feet around the proposed facility
2. A vicinity map showing the location of the proposed facility.
3. Site Plan or scale drawing, 1 inch = 100 feet or less, showing the following items:
  - a. Property lines.
  - b. Existing topography.
  - c. Proposed grading with final grade, if the application is for a new facility.
  - d. Permanent and temporary sedimentation and erosion control structures.
  - e. The location of existing and proposed buildings, structures for storage of materials, monitoring or water supply wells, and utilities.
  - f. Existing surface water features (ditches, ponds, swamps, etc.)
  - g. Access control features (gates, fences, and earthen berms).
  - h. Existing and proposed roads and the anticipated traffic flow pattern.
  - i. 100 year flood plain (FEMA Flood Insurance Rate Map with site indicated on it).
  - j. Adjacent land uses, including other solid waste management activities.
  - k. Locations of stockpiles shown on the site plan, with proposed pile sizes, traffic lanes between piles, and types of material in each pile.
4. Facilities not previously permitted by the Division shall provide:
  - a. Sedimentation and Erosion control plan with approval letter from the Division of Land Quality or appropriate local government agency. If the application is for an existing facility a letter or recent inspection report should be included from the appropriate government agency indicating that the existing plan is adequate and that all related structures are in proper working order.
  - b. Letter from the appropriate agency that the proposed facility shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife.
  - c. Letter from the appropriate agency stating that the site is not located in a wetland.
5. Provide a legal description of the property and a copy of the deed for the property with metes and bounds.
7. If the property is owned by an individual(s)/corporation that is not the proposed operator, notarized and signed affidavits must be provided to the Solid Waste Section from the landowners of the site indicating that the property can be used for the proposed facility.
8. An operations Plan including:
  - a. A detailed narrative describing all the proposed operations that will take place at the facility including: receiving, processing, handling and storage of materials; anticipated

process time; length of time materials will remain on-site before and after processing; how the site will be maintained to prevent surface water from ponding and ruts from occurring around storage piles, etc.

- b. A list of materials proposed to be received.
- c. An estimate of how much of each type of material to be received will be processed per day or week.
- d. An explanation of how non-recyclable material will be managed at the site, an estimate of how much of that material will be managed, and the name and location of the facility where such material will ultimately be disposed.
- g. A list of all proposed uses of the recycled materials. Specific markets may be required with some materials.
- h. A letter from the local fire marshal/chief of the appropriate fire department that has jurisdiction over this facility that an incident at this facility will be responded to with the appropriate equipment.
- i. A list of all equipment to be utilized at the site for processing handling and loading of materials.
- j. If any of the information in this item is considered confidential, then documents shall be stamped as such and the Solid Waste Section will handle in accordance with applicable General Statutes.
- k. Contingency plans for equipment failure, fire or medical emergencies, and for poor product market conditions.
- l. Records indicating the inflow and out flow of material, in tons.

h:cla/treat&pr/tr&pr3

Appendix B  
Permit No. 26-F

PERMIT NO. 26-F

DATE ISSUED 7/1/85

STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES

P.O. Box 2091      Raleigh 27602

SOLID WASTE PERMIT

Cumberland County is hereby issued a permit to  
operate a Demolition Landfill  
located on Highway 87 and Wilkes Road,

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 on the below described property.

BEGINNING at a concrete monument in the western margin of N. C. 87 (150 foot wide right-of-way), said concrete monument being located at the northern end of a site easement at the intersection with the northern margin of Wilkes Road (60 foot wide right-of-way), and proceeding thence for a first call from the western margin of N. C. 87, South 27 degrees 21 minutes West 51.82 feet to a concrete monument located in the northern margin of Wilkes Road, the southern end of said site easement; thence along the northern margin of Wilkes Road, South 79 degrees 12 minutes West 1284.42 feet to a point approximately in the middle of N. C. S. R. 2211 (60 foot wide right-of-way) where it intersects Wilkes Road; thence continuing along the northern margin of Wilkes Road, South 79 degrees 06 minutes West 1041.10 feet to a point located approximately in the middle of N. C. S. R. 2302 (60 foot wide right-of-way) where it intersects the northern margin of Wilkes Road; thence continuing along the northern margin of Wilkes Road with the following calls and distances: South 79 degrees 22 minutes West 862.28 feet; South 78 degrees 15 minutes West 100.27 feet; South 77 degrees 24 minutes West 100.19 feet; thence South 76 degrees 15 minutes West 100.32 feet; thence South 74 degrees 59 minutes West 100.32 feet; thence South 74 degrees 41 minutes West 70.11 feet; thence South 74 degrees 46 minutes West 228.04 feet to a concrete monument; thence leaving Wilkes Road, North 10 degrees 54 minutes West 518.04 feet to a concrete monument located in the Carolina Tel. and Tel. and CP&L 100 foot wide easement; thence North 79 degrees 09 minutes East 1357.53 feet to a concrete monument; thence North 03 degrees 05 minutes East 145.64 feet to a concrete monument located in said 100 foot wide easement; thence North 79 degrees 32 minutes East 2388.49 feet to a concrete monument located in the western margin of N. C. 87; thence along the western margin of N. C. 87, South 24 degrees 29 minutes East 583.17 feet to the point and place of beginning and containing 50.57 acres, more or less.

*William L Meyer*  
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William L. Meyer, Head/  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

PERMIT NO. 26-F

DATE ISSUED 7/1/86

## SOLID WASTE PERMIT

### Property Description (continued)

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges, and duties may have been affected by the issuance thereof.
2. 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. After recordation, the certified copy shall be returned to the Solid and Hazardous Waste Management Branch and shall have indicated on it the page and book number, date of recordation and registrar's seal.
3. 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 for demolition waste, only.
4. The following requirements shall be met prior to receiving solid waste at the site:
  - a. Site preparation in accordance with operational plan.
  - b. Site inspection made by a representative of the Division of Health Services.
5. This solid waste disposal site is permitted to receive stumps, limbs, leaves, concrete, masonry, wood, uncontaminated earth, and demolition and construction wastes and other wastes that may be specifically approved by the Solid and Hazardous Waste Management Branch.
6. The operation of this facility shall conform to Rule .0507 of the Solid Waste Management Rules.
7. An erosion control plan is submitted and approved that complies with 15 NCAC 4 (Sedimentation Pollution Control Law).

Appendix C  
Fire Marshall Certification

JUN 30 2004

## Pearce's Mill Fire Department

2998-A Gillespie Street  
Fayetteville, NC. 28306  
(910) 425-5881

To whom it May Concern,

June 25, 2004

Wilkes Road Land Fill is in the Pearces Mill fire district. And the Pearces Mill Fire Department is able to get in the gates after hours. There are two hydrants, one is a 2-inch hydrant within the gates, and one is a 6-8 inch hydrant outside the gates. The Landfill has a 5,000 Gallon taker on site, an Excavator, and other equipment to fight fire with. If you have any questions, feel free to contact me at the number below.

Sincerely,



Tracy Smith  
Deputy Chief  
Pearces Mill Fire Department  
(910) 425-5881

Toward  
back since