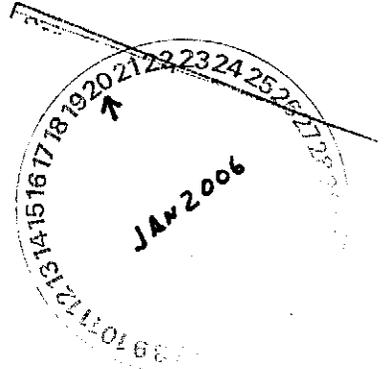


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P1158



OPERATION PLAN FOR THE DUPLIN COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION

APPROVED
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION
DATE 3-20-07 BY Jms
3103T PTO
DOC A1 PART B DOC #2

I. INTRODUCTION AND BACKGROUND

This operation plan has been created on behalf of the Duplin County Department of Solid Waste for the Solid Waste Handling and Transfer Facility (Permit 35-03T). Operations at this facility will be conducted in agreement with this plan, the North Carolina Waste Management Rules, and generally sound environmental and waste management practices.

The MSW transfer facility transports its waste to the Sampson County Disposal, Inc. Landfill in Roseboro, NC, which is a lined waste management facility (Permit number 82-02).

Zoning approval was acquired when the MSW transfer facility was originally permitted in 1993.

II. FACILITY LOCATION

The Duplin County MSW Transfer Facility is located near Rose Hill, North Carolina. The facility, which is owned and operated by the County of Duplin, is located approximately 4 miles northeast of Rose Hill, NC on Landfill Road (SR 1918).

The physical address is as follows:

Duplin County Transfer Station
325 Landfill Road
Rose Hill, North Carolina 28458

The mailing address is as follows:

Duplin County Transfer Station
PO Box 976
Kenansville, NC 28349

III. FACILITY OWNER

The facility is owned and operated by Duplin County. The key personnel associated with operations are:

Bee Barnett, Solid Waste Director
PO Box 976
Kenansville, NC 28349
Telephone (910) 289-3091

IV. FACILITY DESCRIPTION

The main MSW transfer structure is a metal building constructed on a concrete slab with retaining wall. It is enclosed on three sides, keeping one open facade that provides accessibility for incoming vehicles. One of the enclosed sides provides an entrance for service vehicles to the tipping floor. The tipping floor encompasses an area of approximately 10,000 square feet (100 feet by 100 feet). Transfer trailers are positioned in a loading bay under the tipping floor. Incoming loads are discarded onto the concrete tipping floor where they are compacted into the transfer trailer located on the lower level. Wastewater that is generated from normal activities and from regular washing of the tipping floors is collected through drains in the lower level floor. These drains empty into the on-site holding tanks which will be pumped out by a licensed septage hauler and disposed at Shamrock Environmental Corp., Brown's Summit, NC. Any solid waste not removed from the transfer station will be stored in an enclosed transfer trailer overnight.

V. SOURCE, TYPES, AND QUANTITIES OF WASTE

The source of municipal solid waste will be from residential, commercial, and industrial facilities located within Duplin County. The MSW handling and transfer facility will be used solely for the handling and conveyance of municipal solid waste generated within Duplin County. The Facility will only accept solid waste as defined in G.S. 130A – 290(35). Any hazardous, liquid, or other prohibited materials found in the waste stream shall be removed and held for proper disposal. The waste will be transferred to the site in publicly and privately owned vehicles of various types and sizes.

July 1, 2004, through June 30, 2005, 26,777 tons of MSW were accepted at the Duplin Transfer Station, which equates to approximately 2,231 tons per month. This rate is expected to remain relatively constant relative to population growth. Thus, a proportional increase in waste quantities should be expected as Duplin County's population increases.

VI. OPERATION PLAN

A. General

The Duplin County Transfer Station will be open Monday through Friday from 7:00 AM until 5:00 PM and on Saturday from 7:00 AM to 12:00 Noon. The facility will be closed in the observance of the following holidays: New Year's Day, Martin Luther King, Jr.'s Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Holidays, and Christmas Holidays.

Waste collection and transportation vehicles are weighed in at the scale house and again weighed upon departure. Signs will be posted directing traffic to the proper areas for disposal of the respective material. MSW will be unloaded onto the tipping floor, where it will be gathered and moved into the transfer trailer. The operator will keep a log of all the daily activities. The station operator, who is responsible for observing the contents of each load, will take action if unsuitable waste is received.

Other activities that occur at the transfer facility include:

- Duplin County accepts used tires daily. Tires are stacked by the public into the storage trailer. When the trailer is full, the County will contact Central Carolina Tire and have it switched out.
- A recycling warehouse is on site to process source separated recyclable materials for market.
- Used lead-acid batteries are collected in a designated location. These batteries are stored on a wooden pallet adjacent to the recycling warehouse. In general, the batteries are removed monthly.
- Yard Waste such as grass clippings, leaves, brush, and other debris (excluding pallets) is disposed of in the permitted area. Pallets are stacked into roll off containers. When full, the container is shipped to Parker Bark Co., Rose Hill, NC where the pallets are ground into mulch.
- Old metal materials and appliances are collected in an area designated for metals. These materials are generally processed and removed every two months or as needed.
- White Goods, which contain Freon, are collected by the facility and stored in one designated area in the metal storage area. The handling and disposal of these items are governed by 40 CFR 82 "Protection of Stratosphere Ozone". The discarded materials are removed every two weeks.
- The Scalehouse and Office are open during standard operating hours. Vehicles transporting MSW will stop at the scalehouse for weighing before and after trips to the transfer station.

B. Equipment

The equipment, which is used at the MSW Transfer Station, is owned and operated by Duplin County. County personnel will conduct preventive and other maintenance to ensure the equipment remains in good operational condition. The following equipment will be used at the transfer station:

- 1 CAT-924F Wheel Loader
- 5 Open-Top Transfer Trailers
- 3 Road Tractors
- 1 Yard Tractor
- 6 Roll-off Trucks
- 2 Pickup Trucks

A wheel loader will collect the waste from the facility's tipping floor. Then the waste is compressed and loaded into trailers located in the lower level of the transfer station. Based on the current waste volume rates, the transfer station can be managed with one wheel loader and the yard tractor. However, if the rates increase substantially, the

owner will rent another loader for the duration of the increased volume or until another loader is acquired (if high rates persist).

C. Personnel

County staff will be present at the scalehouse to weigh vehicles in and out. Staff will also be stationed at the transfer areas to oversee operations to ensure no hazardous or prohibited waste enters the transfer facility. All employees will be routinely trained in safety issues such as recognizing and managing hazardous waste, fire prevention and firefighting, and other emergency and safety related topics. A qualified person will conduct training. First aid supplies and training will be provided in the facility. All employees will be required to immediately report all work-related injuries and illnesses. All staff members will be provided with the necessary safety equipment including gloves, dust masks, safety shoes, earplugs, safety glasses and related protective items as needed.

D. Waste Transfer

All vehicles will be weighed at the scale and then proceed to the transfer station or appropriate location. A two-lane all-weather access road will be maintained between the scalehouse and other structures. Vehicles hauling MSW will back up to the transfer station's loading bay and unload onto the tipping floor over the facility's dock. The transfer station attendance will then perform a visual inspection to ensure only authorized waste is accepted. A wheel loader will then push and compact the waste onto the transfer trailer through the loading bay. Once full, the transfer trailer will transport the waste to the Sampson County Disposal, Inc. Landfill near Clinton, NC and an empty trailer will replace the departing trailers.

Outgoing trailers will then be weighed at the scale house for bookkeeping purposes and to ensure no overloaded vehicles will enter North Carolina roads. Weight records of MSW will be maintained at the facility and will be used in preparation for the annual reports submitted to NCDENR Division of Solid Waste.

E. Wastewater Management

The tipping floor will be cleaned daily by using a push broom. Wastewater generated as a result of daily operations along with the wastewater from periodic cleaning of the facility will be collected by a drain in the lower loading bay. These drains are then piped into a series of solids and grease/oil separators prior to entering the on-site holding tank. The holding tank will be pumped out monthly and hauled to Shamrock Environmental Corporation's Wastewater Treatment Plant.

F. Hazard and Nuisance Control

Hazard and nuisance control for a MSW transfer station is vital for proper management and efficient operation. The attributing factors to any waste transfer process include prohibited or unauthorized waste materials, fire, odors, disease, vectors, noise, dust, and

litter. The Material Screening process conforms to NCAC T15A.13B.0302 (2). Key elements of this plan consist of:

- a. Training of facility personnel to recognize regulated hazardous and unacceptable waste, including asbestos materials.
- b. Visual inspection of each load that comes into the facility, as well as random checks of loads.
- c. A contingency plan to correctly manage any proscribed waste.

Training of Facility personnel: Anyone working at the scale house and/or transfer station will be trained to identify suspicious, hazardous and unacceptable wastes based on visual and odor characteristics. The Operations Manager or any personnel trained to identify and manage hazardous and liquid wastes will administer inspections. Transfer station employees will be SWANA certified Transfer Station Operations Specialists.

Visual inspections: These shall include observations of each truckload at the scale, unloading their shipment onto a concrete pad, and observations before loading onto the processing area. The truck and driver will be detained if objectionable material is found during the unloading process.

Random load inspections: These will be performed to abide by the minimum requirement of 1% screening of waste. This percentage can be raised depending upon the type and nature of the incoming waste.

Methodology for choosing the loads to be examined will be based on:

- The probability that a load may contain proscribed waste based on type of business served or type of hauler involved.
- A random selection process that will ensure that any load can be checked.
- The ability to distinguish and check "suspicious" loads.

The shipment will be examined for prohibited and/or hazardous waste:

- Asbestos containing material
- Containers with hazardous labels or markings
- Containers with liquids, oils, paints, varnishes, etc.
- Drums or commercial sized containers
- Material with "chemical odors", dust, powders, smoke, or vapors
- Materials with bright or unusual colors
- Regulated biochemical waste
- Sludges, biomass, etc.
- Waste banned from landfill disposal by North Carolina Statute

Fire: The MSW transfer station and associated buildings will be equipped with fire extinguishers. Qualified personnel will conduct routine inspections of the fire prevention equipment. A qualified person will train all staff members in effective fire fighting procedures and fire prevention. There shall be no flammable liquids stored in or around the MSW Transfer Station. A hose and water supply will be provided inside the facility

for fire fighting measures, and in the case of a fire, the local Fire Department will be contacted by calling 911.

Litter: The implementation of covered transfer vehicles, staff supervision, and a fenced facility will be used to prevent litter. Windblown material, if any, will be picked up and discarded as needed.

Odors and Vectors: Measures to be taken to control odors and disease vectors include immediate removal of waste, invariable washing of the tipping floor, and covering of any partial loads which may remain outside overnight. If vectors are discovered, adequate extermination measures will be taken. The tipping area will be empty and clean at the end of each working day.

Dust: The access roads and the areas adjacent to the MSW Transfer Station are paved to help lessen the problems associated with dust.

Noise: The tract of land on which the MSW Transfer Facility is located has ample buffer to soften most noise pollution. Current levels are not expected to change.



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 12, 2005

Mr. Bee Barnett, Solid Waste Director
Solid Waste & Recycling Department
Duplin County
P.O. Box 976
Kenansville, North Carolina 28349

Subject: Duplin County Transfer Facility
Permit # **31-02T**
325 Landfill Road Rose Hill
Duplin County, North Carolina
Permit to Operate

Dear Mr. Barnett:

Enclosed is a new Permit to Operate for the referenced solid waste Transfer Facility and the accompanying conditions for the above referenced facility. This permit to operate is for one year while the new transfer station is completed (expires on December 12, 2006).

Please note Condition of Permit – Operations, No. 5, which describes the requirement to submit a progress report on the construction of a new transfer facility every 60 days. The first report is due the first week in January and every 60 days thereafter. Please review the conditions of the permit carefully and if you have any questions or comments please contact Ray Williams, Regional Waste Specialist, at (910) 796-7215 or myself at (704) 235-2163.

Sincerely,

John E. Murray
Regional Permitting Engineer
Solid Waste Section

cc: John Crowder
Ray Williams
Raleigh Central File - Duplin County (31-02T)
Wayne Sullivan, MESCO



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

Permit No: 3102T
Date of Original Issue (PTO): 09/20/1994
Date of Permit Renewal (PTO): December 12, 2005
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STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

1646 MAIL SERVICE CENTER; RALEIGH, N.C. 27699-1646

SOLID WASTE PERMIT

COUNTY OF DUPLIN
is hereby issued a PERMIT TO OPERATE a
TRANSFER FACILITY

Located at the Duplin County landfill, adjacent to S.R. 1918, in the Register Township, Kenansville, Duplin County, North Carolina in accordance with Article 9, Chapter 130A of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the construction plan submitted and the permit application narrative.

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

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-508-8400 \ FAX 919-733-4810 \ Internet <http://wastenotnc.org>

CONDITIONS OF PERMIT

OPERATION:

1. This facility is permitted to receive solid waste as defined in G.S. 130A-290 (35), except that hazardous and liquid wastes are prohibited from acceptance at this facility.
2. This facility may receive solid waste that is generated within the service area of Duplin County and all Municipalities in Duplin and shall dispose of said solid waste at the Sampson County Disposal, Inc. Landfill (Permit # 82-10 & 82-02) located on Highway 24, east of the Town of Roseboro, Sampson County, North Carolina.
3. This permit is for one year and is subject to review on or before 12 December 2006, in accordance with 15A NCAC 13B .0201(e). Modifications to the facility may be required in accordance with the rules in effect at the time of review.
4. This permit is for operation of the transfer facility in accordance with the approved plans. The North Carolina Solid Waste Section shall approve any revisions or modifications to these plans.
5. Operation of the facility shall occur in accordance with 15A NCAC 13B .0402, "Operational Requirements for Transfer Facilities", the approved operations plan prepared by Marlowe, Drietzler & Associates. Duplin County shall provide a written report every 60 days to their Regional Waste Specialist stating the progress and steps taken to construct a new transfer station. The first report is to be submitted the first week in January and another every 60 days thereafter.
6. The owner or operator of a municipal solid waste management facility shall not knowingly dispose of, or accept for disposal, any type or form of municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 1. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
 2. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
7. On or before August 1 of each year, the Duplin County shall report the tons of waste received at this facility and disposed of in a landfill, incinerated or converted to fuel to the Solid Waste Section, on forms prescribed by the Section. The reporting period shall be for the previous year, beginning July 1 and ending on June 30. This report shall include the following information:

1. The amount of waste received and land filled in tons, compiled on a monthly basis by county, city or transfer station of origin and by specific waste type if diverted to separate disposal facilities or units within a permitted facility.
2. The completed report shall be forwarded to the Regional Waste Management Specialist for the facility. A copy of the completed report shall be forwarded to the County Manager of each county from which waste was received.
8. Waste shall not be stored on the "tipping floor" after operating hours and shall be removed from the tipping floor daily. Waste can be stored in transfer trailers, in the facility with covers in place, after operating hours, but no longer than 48 hours.
9. The "tipping floor" and "transfer trailer loading area" shall be maintained in a sanitary, clean condition after operating hours in accordance with the approved Operational Plan and shall be cleaned at least daily.
10. Leachate holding tank(s) and containment area shall be operated and maintained to provide a minimum of two feet of freeboard from the top of the existing containment wall. Accidental discharges of leachate from the containment area, during the pumping of leachate to tanker trucks, shall be recorded, submitted to the Regional Waste Specialist within seven days, and the area shall be managed and disposed of at Shamrock Environmental Corp., Browns Summit, NC.

ATTACHMENTS
Duplin County Transfer Station
List of Documents for the Approved Plan

1. Transfer Station Approved Permit Application dated April 2000 and received 24 April 2000 that included the Facility Plan.
2. Letter dated 18 April 2000 from David A. Holmes, addressing zoning of the proposed facility (include in the permit application).
3. Letter dated 2 March 1987 (included with the permit application) from Land Resources, approving the Erosion and Sedimentation Plan for the transfer station project.
4. Response letter dated 25 April 2000 from Harrison Lanier addressing items listed in SWS letter dated 6 April 2000.
5. Letter dated June 2005 requesting renewal of Duplin County's transfer station.

This permit is for the operation of transfer station and related infrastructure at the Duplin County Transfer Facility in accordance with the plans in the permit submittal document dated April 2000 and received on 24 April 2000. The N.C. Solid Waste Section shall approve any revisions or modifications to these plans.