

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

**Municipal
Services**



**Engineering
Company, P.A.**

July 27, 2006

RECEIVED
N.C. Dept. of ENR

JUL 28 2006

Winston-Salem
Regional Office

Mr. Tim Jewett, Regional Engineer
NC DENR
Solid Waste Section
585 Waughtown Road
Winston-Salem, NC 27107

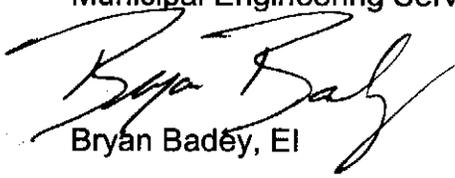
Re: Permit renewal for Alleghany County Transfer Station

Dear Mr. Jewett:

Please find enclosed two copies of the permit renewal including facility and operation plans for the above referenced transfer station. Attached to each copy is an aerial map showing existing conditions of the facility.

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

Sincerely yours,
Municipal Engineering Services Company, PA


Bryan Badéy, EI

Copy: Ed Mussler w/enclosures
Don Adams w/o enclosures

**Permit renewal for
Alleghany County Transfer Station Facility
Site and Operation Plan**

I. INTRODUCTION AND BACKGROUND

This operation plan has been created on behalf of the Alleghany County Transfer Station Facility (Permit 03-03T). 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 Alleghany County transfer station has its waste transported to BFI's Motor Speedway Landfill in Charlotte, NC by Hilco transport. This landfill is a lined waste management facility (Permit 13-04).

II. FACILITY LOCATION

The Alleghany County Transfer Station is located in Sparta, North Carolina. The facility, which is owned and operated by Alleghany County, is approximately 2 miles west of the intersection of US 21 and NC 18 in Sparta, NC on Osborne Road.

The physical address is as follows:

Alleghany County Transfer Station
419 Osborne Road
Sparta, NC 28675

The mailing address is as follows:

Alleghany County Transfer Station
P.O. Box 366
Sparta, NC 28675

III. FACILITY OWNER

The Transfer Station facilities are owned and operated by Alleghany County. The key personnel associated with operations are:

Don Adams, County Manager
P.O. Box 366
Sparta, NC 28675
PH: 336-372-4179

Larry Davis, Maintenance Supervisor
P.O. Box 366
Sparta, NC 28675
PH: 336-372-2010

IV. FACILITY DESCRIPTION

The main MSW transfer structure is a wood frame building constructed on a concrete slab, covered with ½" steel plates and block retaining wall. It is enclosed on three sides, keeping one open side for accessibility for incoming vehicles to the tipping floor. The tipping floor encompasses an area of approximately 1,824 square feet (48' x 38'). A transfer trailer is positioned in the loading bay under the tipping floor. Incoming loads are discarded onto the steel tipping floor where the waste is compacted into the trailer located on the lower level. Wastewater that is generated from normal activities and regular washing of the tipping floor is collected through drains in the lower level floor. These drains empty into a on site holding tank which is pumped out by 3RC, a licensed septage hauler and disposed in Winston Salem, NC. Any solid waste not removed from the transfer station is stored in an enclosed transfer trailer overnight.

V. SOURCE, TYPES, AND QUANTITIES OF WASTE

The source of municipal solid waste is from residential, commercial, and industrial facilities located within Alleghany County. The transfer station will be used solely for the handling and conveyance of municipal solid waste generated within Alleghany County. The facility will only accept solid waste as define in G.S. 130A-290(35). Any hazardous, liquid, or other prohibited material 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, 2005, through June 30, 2006, Alleghany County transfer station accepted 9,512 tons of MSW, which equates to approximately 793 tons per month. This rate is expected to remain relatively constant. Thus, a proportional increase in waste quantities should be expected as Alleghany County's population increases.

VI. OPERATION PLAN

A. General

The Alleghany County Transfer Station Facility is open Monday through Saturday from 7:00 AM until 6:45 PM. Closing at 6:45 P.M. everyday allows the employees to wash down the tipping floor each evening. The facility will be closed in the observance of the following holidays: Thanksgiving Day and Christmas Day.

Waste collection and transportation vehicles are weighed in at the scale house and again weighed upon departure. Signs are posted directing traffic to the proper areas for disposal of the respective material. MSW is unloaded onto the tipping floor, where it will be gathered and moved into the transfer trailer. The

operator, who is responsible for observing the contents of each load, will take action if unsuitable waste is received.

The following are other activities that occur at the transfer station facility:

- Used tires are stacked into a storage trailer. When the trailer is full, the County contacts a private contractor to haul the tires to U.S. Tire Co. in Concord, NC for disposal. The County received and disposed of approximately 17,315 tires last year.
- A recycling warehouse is on site and run by a private individual who leases the warehouse from the County at no charge. The recyclables are separated on site, bundled and stored in trailers until enough materials are ready for market.
- The County Transfer Station Facility accepts used oil from their residents. The operators pour the used oil into a storage container sitting above a concrete slab. When the storage container gets full the operators contact Necessary Oil Company, out of Bristol, TN. to collect the stored oil. The County collects approximately 375 gallons of used oil every year.
- Yard waste such as grass clipping, leaves, brush, pallets and other debris is disposed of in a designated area behind the white goods building. The County stores the yard waste on site until the fall, when the County grinds up the waste into mulch. In the winter and spring, the County offers the mulch to their residents at no charge.
- White goods are collected at the dedicated building within the transfer station facility. Any white goods, which contain Freon, are separated from the other metal material. A private contractor removes the Freon from the disposed appliances then paints a large "X" on the appliance so the county knows which appliances they can crush and have hauled off. A private contractor hauls the crushed white goods once a month, to Gordon's Iron & Metal in Statesville, NC. The county receives the proceeds from the sale of the metal. The county collects and recycles approximately 400 tons of white goods every year.
- The scale house is open during normal operating hours. Vehicles transporting MSW will be stopped and weighed before and after trips to the transfer station building.
- The facility receives concrete debris as well and is stored in a designated area.

- The county instructs their residents to dispose of lead batteries at an auto parts store equipped to handle them. The county has no household hazardous waste program.

B. Equipment

The equipment, which is used at the Transfer Station Facility, is owned and operated by Alleghany County. County personnel conduct preventive and other maintenance to ensure the equipment remains in good operational condition. The following equipment is used at the facility:

- 2 front end wheel loaders
- 1 front end track loader
- 7 open top transfer trailers
- 4 roll-off containers

The wheel loaders collect the waste from the facilities tipping floor. Based on the current waste volume rates, the transfer station can be managed with one wheel loader and a back up wheel loader, in case one breaks down and the track loader, which crushes the yard waste and white goods.

C. Personnel

The county employs 5 workers at the Transfer Station Facility. The county animal control officer helps at the facility on a daily basis. The employees rotate on a six-day on, six day off schedule. At all times during standard operating hours there are three employees working. All employees are routinely trained in safety issues such as recognizing and managing hazardous waste, fire prevention and firefighting, and other emergency and safety related topics. First aid supplies and fire extinguishers are provided at the facility. All employees are required to immediately report all work related injuries and illnesses. All staff members are 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 scale house and transfer station. Vehicles hauling MSW will back up to the transfer station and unload onto the tipping floor. A visual inspection is performed by the transfer station attendant to ensure only authorized waste is accepted. A wheel loader pushes the waste onto the transfer trailer. Once full, the trailer is transported by Hilco Transport, to BFI Motor Speedway Landfill in Charlotte, NC (permit #13-04). A standby empty transfer trailer replaces the departing trailer.

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

E. Wastewater Management

The tipping floor is cleaned daily by hosing it down and sweep it with a push broom. Wastewater generated at the facility, as a result of daily operations and cleanings is collected by drains in the lower level floor. These drains lead to a grease/oil separator prior to entering the on site 1,000 gallon holding tank. The holding tank is pumped out on a as needed basis and hauled by 3CR to their wastewater treatment plant.

F. Hazard and Nuisance Control

Hazard and nuisance control for the MSW transfer station facility is vital for proper management and efficient operations. The attributing factors to any waste transfer process include prohibited or unauthorized waste materials, fire, odors, disease, 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 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 facility will be trained to identify suspicious, hazardous and unacceptable waste based on visual and odor characteristics. The Maintenance Supervisor or any personnel trained to identify and manage hazardous and liquid waste will administer inspections.

Visual Inspections:

These shall include observations of each truckload at the scale, unloading their shipment onto the tipping floor and observations before pushing the waste into the trailer. The truck and driver will be detained if objectionable material is found during the unloading process.

Random Load Inspections:

These are performed to abide by the minimum requirement of 1% screening of waste. This percentage can be raised depending on 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 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, powder, smoke or vapors;
- Materials with bright or unusual colors;
- Regulated biochemical waste;
- Sludges, biomass, etc.; and,
- Waste banned from landfill disposal by North Carolina statute

Fire:

The MSW transfer station facility is 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 procedure and prevention. There shall be no smoking allowed on the tipping floor or in the recycling center. No flammable liquids stored in or around the MSW transfer station. A hose and water supply is located at the transfer station 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 fenced facility is used to prevent litter. Windblown material, if any, is picked up and discarded as needed.

Odors and Vectors:

Measures 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 are taken. The tipping floor area is empty and clean at the end of every working day.

Dust:

The access road to the transfer station is paved to help lessen the problems associated with dust. The facility itself is local in a rural area.

Noise:

The tract of land on which the transfer station facility is located has ample buffer to soften most noise pollution. Current levels are not expected to change.