



July 17, 2009

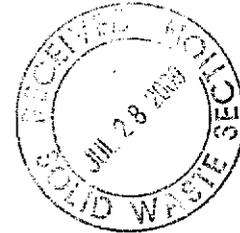
Mr. Ed Mussler  
State of North Carolina  
Department of Environment and Natural Resources  
Division of Waste Management  
1646 Mail Service Center  
Raleigh, NC 27699-1646

| Fac/Perm/Co ID # | Date    | Doc ID#  |
|------------------|---------|----------|
| 19-03T           | 7/28/09 | DIN 8086 |

**PALMETTO LANDFILL**

360 New Hope Rd.  
Wellford, SC 29385  
(864) 439-8426  
(864) 439-0097 Fax

RE: Waste Management of the Carolinas, Inc.  
Chatham County Transfer Station  
Permit # 19-03T Renewal Request



Dear Mr. Coffey:

Waste Management of the Carolinas, Inc. (WMC) has a Solid Waste Permit (No. 19-03T) to operate a transfer station off U.S. Highway 64, Siler City, North Carolina. This is a request for a permit renewal

If you have any questions please feel free to contact me at 864-439-8426.

Sincerely,

Mike Loyd  
Division Engineer  
WM of Carolinas, Inc.

CC: Kathy MacNish  
Jim Dail

*From everyday collection to environmental protection, Think Green® Think Waste Management.*

# **OPERATIONS PLAN**

**WASTE MANAGEMENT OF CAROLINAS, INC.  
CHATHAM COUNTY TRANSFER FACILITY  
PERMIT NO. 19-03T**



**JUNE 2009**

**Plan Prepared By:**

**Waste Management of Carolinas, Inc.  
360 New Hope Road  
Wellford, SC 29385  
(864) - 439-8426**

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**WASTE MANAGEMENT OF CAROLINAS  
CHATHAM COUNTY WASTE TRANSFER FACILITY  
OPERATIONS PLAN**

**SECTION 1. GENERAL INFORMATION**

**A. Facility Location and Description**

The transfer facility is located at 361 Waste Treatment Plant Road , Siler City, North Carolina in Chatham County, (see Figure 1). This property is approximately .27 miles South of Highway 64, and 16.6 miles east of the Randolph/Chatham County Line. The site is within the limits of the Town of Siler City.

The contact information for the facility is as follows:

Applicant-

**Kathy MacNish**

**Waste Management of Carolinas, Inc.**

**2720 Wilkins Drive**

**Sanford, North Carolina 27330**

**Tel # 919-777-5057**

**e-mail: [kmacnish@wm.com](mailto:kmacnish@wm.com)**

The person preparing this permit amendment is as follows:

**Mike Loyd, P.G.**

**Waste Management of Carolinas, Inc.**

**360 New Hope Road**

**Wellford, SC 29385**

**Tel# 864-439-8426**

**e-mail: [mloyd@wm.com](mailto:mloyd@wm.com)**

The land owner and operator of the facility is Waste Management of Carolinas, Inc., Permit fees and invoices should be sent to Kathy MacNish at the address referenced above.

The facility consists of a 4380 square foot covered transfer station, a concrete turn-around pad for collection vehicles, truck scales, site paving, and necessary utilities. (See Figure 2).

The transfer station is sited on a 7-acre tract of property. This tract is zoned by Chatham County to be Agricultural/Residential.

Domestic wastewater is discharged to the Siler City public owned treatment works (POTW). Wastewater from the tipping floor is disposed of via force main direct connect strategy.

## **SECTION 2 . OPERATIONS PLAN**

### **A. Description of Solid Waste**

The transfer station accepts municipal waste from residential, commercial, and industrial sources. No sludges, special waste, regulated medical waste, or hazardous waste are accepted at the transfer station. A sign posted at the entrance states that no hazardous or liquid waste will be received. Waste Management also conducts waste screenings to insure that non-regulated materials are not accepted at this facility. A copy of the Waste Screening Program is included as *Attachment No. 2* to this plan. All MSW and C and D wastes are combined together for disposal.

Municipal waste is consolidated at the transfer station for transport to and disposal at a permitted sanitary landfill. All of the waste is transported to the Sampson County Landfill (Permit # 82-01) in Roseboro, North Carolina or the Uwharrie Environmental Landfill (Permit# 62-04) in Troy, North Carolina. If Waste Management chooses to use a different landfill other than the ones listed, the landfill chosen will be a Subtitle D approved facility and a notification will be sent from Waste Management to the Solid Waste Section.

Waste Management may also pull corrugated material from corrugated rich loads and sell the material.

The transfer station exports approximately 105 tons of waste per day. The service areas include: Johnston, Cumberland, Sampson, Lee, Chatham, Moore, Harnett, Anson, Scotland, Richmond, and Wake Counties.

## **B. Transportation of Waste**

### Routine Operations

Collection vehicles, consisting of front load, rear load, sideload and roll-off trucks, transport waste to the transfer facility. The collection trucks are initially weighed after arriving at the facility. Refuse is consolidated on a tipping floor where it is pushed into open top trailers, and tamped down with a bucket loader.

The transfer vehicles typically consist of a tractor and a 50-foot aluminum body trailer. The transfer trailers are tarped before leaving the transfer station for over the road transport. The loading and transfer trucking operation is contracted out.

The site roads are all of paved all-weather construction which reduces dust emissions.

### Fire Prevention

All trucks will be visually inspected for smoke at the scale house and at the tipping floor for smoke. In the event of a fire in the transfer station from a hot load, the building will be evacuated and the scale house will be notified to call 911 and to prevent any other trucks from coming to the tipping area. An attempt will be made to push the load outside the building with the front end loader. Then trained personnel will use a water hose to extinguish the fire and/or allow it to burn itself out.

### Contingency Operations

In the event a loader breaks down, loaders can be easily rented as backup. If a transfer truck breaks down, the trucking contractor has sufficient numbers of replacement units so that no delays will result. In extreme situations, collection trucks could go directly to the landfill.

Natural light is sufficient for normal operations, therefore a loss of power will not affect transfer activities.

If unapproved wastes are identified, they are segregated from the tipping floor and disposed of in a proper fashion at an approved disposal facility.

No waste processing will be conducted at this facility.

### **C. Operational Procedures**

#### Hours of Operation

The transfer station operates on a schedule of 6 days per week for internal Waste Management trucks from 6:00 a.m. to 6:30 p.m. The transfer station will operate from 7:30 a.m. to 4:00 p.m. Monday through Friday for all other transfer trucks unless otherwise posted at the facility entrance. These operating hours may fluctuate based on the needs of the facility. The hours stated are for the receipt of waste; other activities pertaining to the transfer facility may be conducted beyond these hours.

A sign is posted at the entrance with the hours of operation, types of waste prohibited, permit number, and emergency contact information. Speed limit signs are posted in the facility and also directions to the tipping area.

#### Operator Responsibilities

An operator is always present at the transfer station during operating hours. The operator is responsible for the operations, maintenance, and general housekeeping of the facility. The operator directs all traffic into and out of the transfer station. The operator is also responsible for the movement of waste from the tipping floor into the trailers.

At the end of each operational day, the tipping floor is completely cleaned of all solid waste and washed down with a hose. The operator cleans the transfer tunnel of all debris, picks-up any wind blown debris, locks all operating equipment, closes and locks all doors to the transfer

station,, and locks the security gate at the entrance to the site. Gate house personnel will set the gate house security alarms

A trained and certified person is present at the facility during all hours of the operation.

#### Recordkeeping

All tonnage amounts are maintained by county of origin at the scale house and reported on an annual basis to the NCDENR.

Waste screening records, inspection records, training and permit documents are maintained at the facility.

#### Housekeeping/Vector Control Measures

No solid waste is stored at the site longer than 24 hours, with the exception of weekends and holidays. All extraneous solid waste is swept and removed from the tipping floor by broom and/or shovel during the operational day. Any extremely wet material is removed by washing down the area with water. This wastewater is collected by perimeter floor drains and disposed of via force main to the Town of Siler City sewer system. The water supply for the facility is from the Chatham County Water Distribution System

The tipping area is enclosed and the property is fenced to prevent wind blown litter from leaving the property. The waste is removed from the tipping floor daily preventing vectors from being attracted to.

#### **D. Safety Considerations**

The transfer station has emergency procedures posted at the facility. Fire extinguishers are placed strategically throughout the facility, as shown on the transfer station floor plan. Employees are trained in the use of these extinguishers. Brooms, shovels, and hoses are also available. Also present, are routine emergency equipment such as phones, radios, and first aid kits.

A sign indicating the facility permit number, and emergency contact and phone number is located at the entrance to the facility. The on-site emergency contact is Kathy MacNish and the emergency phone number is 919-842-7909.

The site is located approximately 2.0 miles from the Siler City Fire Department, which is the initial response location in the event of a fire. Units from other fire departments also respond to fire calls from this site. The Town of Siler City Police Department is located approximately 2.12 miles from the site. The site area is regularly patrolled by the Siler City Police.

The site is completely fenced and gated to control access when the facility is closed.

#### **E. Site Requirements and Features**

##### Erosion Control

The erosion control measures for the site include:

- All disturbed soil areas are vegetated
- Gravel filters around all storm water inlets

All site areas not paved or graveled have been planted with grass to prevent erosion of slopes and to reduce wind blown dust emissions.

##### Drainage Control

The concrete pad adjacent to the transfer station entrance is sloped away from the tipping floor to prevent the contact of storm water runoff with the solid waste.

**SECTION 3 . FINANCIAL ASSURANCE**

**A. Closure Cost Estimate**

A cost estimate to hire a third party to remove, cleanup haul and dispose of five days volume of waste is included as Attachment 2.

(End)

*Figure 1*

421

Jonathan Mansfield Station

64

© 2004 Google

Google

*Figure 2*

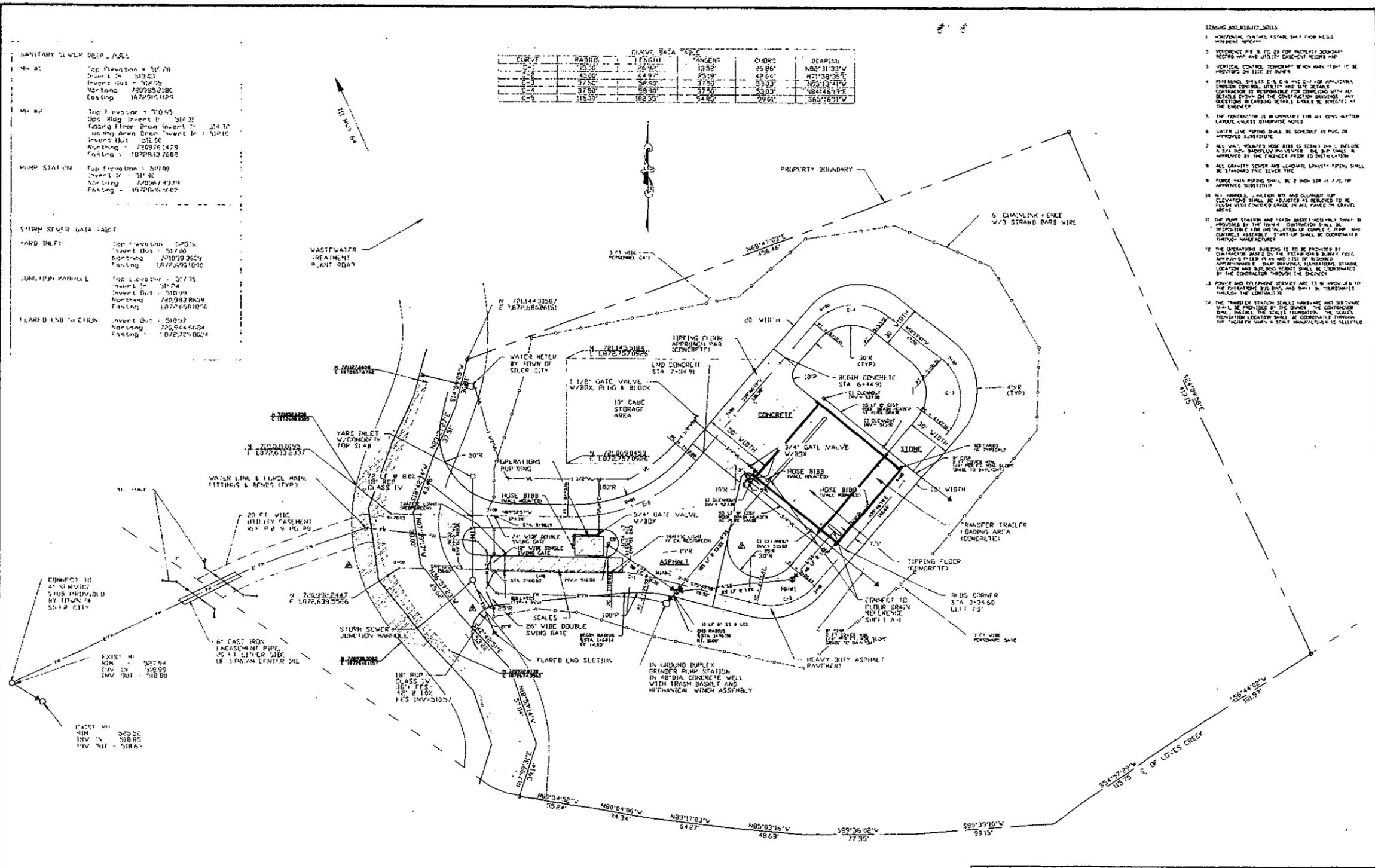
**SEWER DATA TABLE**

| LINE NO. | START | END   | DIAMETER | DEPTH | INVERT | OUTLET | REMARKS           |
|----------|-------|-------|----------|-------|--------|--------|-------------------|
| 1        | 10+00 | 10+50 | 18"      | 4.0'  | 100.00 | 100.50 | 18" DIA. 10' LONG |
| 2        | 10+50 | 11+00 | 18"      | 4.0'  | 100.50 | 101.00 | 18" DIA. 5' LONG  |
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**UTILITY DATA TABLE**

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- STAKING AND UTILITY NOTES**
- STAKING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, LATEST EDITION.
  - ALL UTILITIES SHALL BE LOCATED AND DEPTH DETERMINED PRIOR TO CONSTRUCTION.
  - ALL UTILITIES SHALL BE PROTECTED BY A 24" DIA. CONCRETE PIPE RING WITH 4" SAND FILL AND 18" GRAVEL SURROUND.
  - ALL UTILITIES SHALL BE DEPTH MARKED WITH 18" DIA. GALVANIZED IRON PIPE WITH 4" SAND FILL AND 18" GRAVEL SURROUND.
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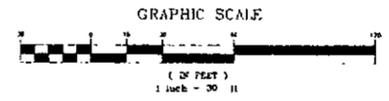


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**REVISIONS**

| NO. | REV. BY | DATE     | DESCRIPTION                       |
|-----|---------|----------|-----------------------------------|
| 1   | MEG     | 06/07/93 | REVISED ENTRANCE & TRAILER PAVING |
| 2   | MEG     | 06/07/93 | ADD UTILITY LINES AND RELATIONS   |

**ENGINEERS SEAL & SIGNATURE**

*Attachment No. 1*

**Waste Screening Program**

**Control Program for  
Unauthorized Waste**



*Chatham County Transfer Station  
361 Waste Treatment Plant Road  
Siler City, NC 24001*

October 22, 2003

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| LOAD REJECTION DOCUMENTATION FORM.....    | ATTACHMENT 3 |
| TRAINING RECORD - UNAUTHORIZED WASTE..... | ATTACHMENT 4 |

## **INTRODUCTION**

**The purpose of this program is to aid in the exclusion of hazardous waste, PCB containing waste and non-Waste Management (WMI) approved waste (hereafter referred to as unacceptable waste) by the performance of at least four (4) random inspections of vehicles containing solid waste from commercial entities each month.**

**These inspections will be completed in order to maintain compliance with the following:**

- 1. 40 CFR 258.20 (Procedures for excluding the receipt of hazardous waste.);**
- 2. Permit requirements;**
- 3. WMI policy and procedures**

## **INSPECTION PROCEDURES**

**The inspection shall consist of the following:**

- 1. Choosing a vehicle to inspect;**
- 2. Choosing a location for the inspection;**
- 3. Inspecting the load;**
- 4. Determining appropriate action if unacceptable waste is discovered.**

**1. CHOOSING A VEHICLE TO INSPECT**

On an inspection date, the supervisor/designee shall choose a commercial solid waste vehicle to inspect. The choice shall be made by the supervisor/designee (see Attachment 1).

**2. CHOOSING A LOCATION FOR THE INSPECTION**

The supervisor/designee shall choose a location on the tipping floor for the inspection near the loading area and away from areas where interference with operations may occur.

**3. INSPECTING THE LOAD**

Once the vehicle to be inspected arrives at the facility, the follow shall occur:

- The appropriate person (i.e. checker will notify the supervisor/designee of the arrival of the vehicle to be inspected;
- The driver of the vehicle to be inspected will be directed to the area of inspection, with further instruction from the supervisor/designee with a Random Inspection Report (RIR) (see Attachment 2);
- The driver of the vehicle to be inspected will be directed to the inspection location where he/she will dump the load from the vehicle and await further instruction;
- The load shall be inspected by a qualified inspector (a qualified inspector is one that has been properly trained to identify and properly handle unacceptable waste at the transfer station); the qualified inspector shall search for unacceptable waste and complete the RIR;
- If no unacceptable waste is discovered, the waste will be mixed with waste present in the transfer truck or mixed with other waste on the tipping floor prior to load, and the driver will be allowed to leave.

4. **APPROPRIATE ACTION FOR UNACCEPTABLE WASTE**

If unacceptable waste discovered in the load, the driver will be asked to retrieve the waste and a Load Rejection Documentation Form (LRF – Attachment 3) will be generated.

A copy of the LRF will be kept on the site for inspection, and can be viewed at any given time or opportunity of management.

The District Manager/designee will be notified of the rejection of the unacceptable waste, and the District Manager/designee will notify the appropriate agencies.

*In cases where a transporter or generator of unacceptable waste is unknown, the transfer station will be responsible for the management of said waste.*

*If a determination cannot be made by the qualified inspector, whether or not the waste is acceptable, the District Manager will make that determination based on a review of paperwork and/or questioning the transporter and/or generator and/or the Environmental Manager.*

**INSPECTION CRITERIA**

1. **VEHICLES TO INSPECT**

Front-end loaders, commercial rear-end loaders, and roll-offs are typical vehicles that will be inspected during the random inspection procedure.

2. **FREQUENCY OF INSPECTIONS**

No less than four (4) random inspections will occur monthly at the Chatham County Transfer Station (TFS).

3. **INSPECTION DATES**

At the beginning of each month, site personnel shall select four (4) calendar dates and times to do random inspections. These four (4) random inspection dates and times shall meet the following constraint:

- a. The dates selected shall be no closer than one (1) day apart and no further than ten (10) days apart;
- b. The supervisor/designee will insure that the same vehicle/driver is not inspected consecutively.

## **MANAGEMENT OF REGULATED WASTE**

**In cases where the management of an unacceptable waste is required by the TFS, the TFS will follow all Federal, State, Local, Permit and Policy requirements in the management and transportation of unacceptable waste.**

**Regulated waste (in this document) generally includes those wastes that are hazardous, infectious, contain PCB's and are special wastes.**

### **REGULATED WASTE CONTAINMENT, TRANSPORTATION AND DISPOSAL**

#### **1. Regulated Waste Containment**

**Regulated/hazardous waste (if managed by the TFS) will be contained on site in appropriately labeled containers for a period not to exceed 24 to 72 hours.**

**These containers will be stored in a contained area prior to shipment for treatment and/or disposal.**

#### **2. Regulated Waste Transportation**

**Regulated waste will be transported by a properly licensed waste hauler with proper insurance.**

#### **3. Regulated Waste Disposal**

**Regulated waste will be treated and/or disposed of in permitted waste treatment, storage and disposal facility.**

## TRAINING AND SAFETY

1. **TRAINING**

Training for random inspections will be conducted annually for personnel involved in the random inspection process. Training will be documented on Training Record – Unauthorized Waste (Attachment 4).

Some of the personnel involved in the random inspection process are as follows:

- a. District Manager;
- b. Transfer Station Operator;
- c. Gate Checkers;
- d. D. Equipment Operators.

2. **INSTRUCTION**

Each employee involved in the random inspection process shall be instructed in the recognition of unacceptable waste, unacceptable waste handling and the regulatory requirements associated with the recognition and handling of regulated waste.

3. **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

PPE will be utilized by the inspector during the random inspection.

At a minimum, the inspector shall wear the following PPE:

- a. Gloves;
- b. Protective (steel toe) boots;
- c. WMI supplied uniform.

Other PPE may be required depending upon the conditions of the inspection.

## UNACCEPTABLE WASTE TYPES

Below is an outline of some of the unacceptable waste types at the transfer station.

1. **Regulated Waste**
  - A. **Hazardous waste**
    - i. **Reactive waste**
      - a. **Reactive waste includes those wastes that react violently with air, water or acceptable waste types.**
    - ii. **Corrosive Waste**
      - a. **Corrosive waste is waste with high or low pH (i.e. 12.5 or above and 2.0 and below). Automobile batteries, lye, vinegar and bleach are corrosive waste types.**
    - iii. **Ignitable Waste**
      - a. **Ignitable waste is a waste with a low flash point and generally includes items like gasoline, lighter fluid and butane.**
    - iii. **Toxic Waste**
      - a. **Toxic waste is a waste that is basically dangerous to human health and the environment under certain circumstances. Herbicides, pesticides, lead and barium are typical toxic wastes.**
2. **PCB Waste**
  - A. **PCB waste was at one time used to cool transformers and can generally be found in old transformers.**
3. **CFC's**
  - A. **CFC's (i.e. freon) were once used as a coolant in air conditioners and refrigerators. CFC's can be found in old appliances and air conditioners.**
4. **Infectious waste**
  - A. **Waste is generally infectious if it has come into contact with human blood, fluid or disease carrying items. Infectious waste generally comes from hospitals and clinics.**
5. **Radioactive waste**
  - A. **Radioactive waste are difficult to detect because one cannot see or smell radioactive waste. Radioactive waste generally comes from hospitals and some mining sites.**

**2. Other Unacceptable Waste Types**

**A. Pressurized Containers**

- i. Pressurized containers are the containers that hold items like industrial oxygen, nitrogen and argon. These containers are acceptable as long as the valve has been removed and the container is at atmospheric pressure.**

**B. Non-WMI Approved Special Waste**

- i. Soils contaminated from the spills or leaking tanks of diesel, oil and petroleum products are considered petroleum contaminated soils and need WI approval prior to disposal at a WMI landfill.**
- ii. Wastewater treatment plant sludge is an example of a waste that requires WMI approval prior to disposal at a WMI landfill.**

**SUMMARY**

**Transfer station personnel currently check waste loads upon arrival and at the tipping floor. With the aid of this document and the continuing of the inspection procedures listed above, the Chatham County Transfer Station will continue to meet the regulations, permit requirements and policies.**

# **ATTACHMENT 1**



# **ATTACHMENT 2**

October 22, 2003

# Random Inspection Report

Date \_\_\_\_\_ Time in \_\_\_\_\_ Time Out \_\_\_\_\_

Inspector \_\_\_\_\_ Title \_\_\_\_\_

Transporter \_\_\_\_\_

Truck Type \_\_\_\_\_ Volume \_\_\_\_\_ Truck No. \_\_\_\_\_

Waste Description \_\_\_\_\_

Are any of the following present in the load?

|               | Yes   | No    | Yes             | No    |
|---------------|-------|-------|-----------------|-------|
| Liquids?      | _____ | _____ | Haz. Waste?     | _____ |
| Drums?        | _____ | _____ | Hospital Mat.?  | _____ |
| Transformers? | _____ | _____ | Oily Waste?     | _____ |
| Tires?        | _____ | _____ | Batteries?      | _____ |
| Sludges?      | _____ | _____ | Other, Explain? | _____ |
|               |       |       |                 | _____ |
|               |       |       |                 | _____ |
|               |       |       |                 | _____ |

Explain any YES answers \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Actions Taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ATTACHMENT 3**

## Load Rejection Documentation Form

Route Number/Manifest Number \_\_\_\_\_

Shipment Arrival Date \_\_\_\_\_

Inspector Name \_\_\_\_\_

Hauler Name \_\_\_\_\_

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**Discrepancy:**

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**Action Taken:**

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Accepted Date: \_\_\_\_\_ Signature \_\_\_\_\_

Rejected Date: \_\_\_\_\_ Signature \_\_\_\_\_

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**ATTACHMENT 4**

## Training Record – Unauthorized Waste

Training Date \_\_\_\_\_ Instructor \_\_\_\_\_

Description of training i.e. video, subjects covered, etc.

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### Employees Trained:

Print Name

Signature

|    |       |       |
|----|-------|-------|
| 1. | _____ | _____ |
| 2. | _____ | _____ |
| 3. | _____ | _____ |
| 4. | _____ | _____ |
| 5. | _____ | _____ |
| 6. | _____ | _____ |
| 7. | _____ | _____ |
| 8. | _____ | _____ |

*Attachment No. 2*

**Closure Cost Estimate**

**COST ESTIMATE WORK SHEET FOR CLOSURE OF CHATHAM  
TRANSFER STATION**

|   |                       |                    |
|---|-----------------------|--------------------|
| <b>1. General Conditions/ Mobilization/ Demobilization</b>  |                       |                    |
| - Backhoe and bulldozer                                     |                       | <b>\$5,000.00</b>  |
| <b>2. Transfer station cleaning (pressure wash)</b>         |                       |                    |
| - Labor; 80 hours @ 15.00/hour                              |                       | <b>\$1,200.00</b>  |
| - Cleaning Materials  |                       | <b>\$300.00</b>    |
| <b>3. Abandon 1 wastewater collection sumps</b>             |                       |                    |
| - Labor; 40 hours @ \$15.00/ hour                           |                       | <b>\$600.00</b>    |
| - Materials (Concrete, 4 cu. yds.)                          |                       | <b>\$180.00</b>    |
| - Equipment Rental  |                       | <b>\$250.00</b>    |
| <b>5. Signage (2 metal signs fixed to fence)</b>            |                       | <b>\$200.00</b>    |
| <b>6. Waste disposal (525 tons)</b>                         |                       |                    |
| - Mobilization/ demobilization of front end loader          |                       | <b>\$250.00</b>    |
| - Loading; Front end loader w/ operator (36 hrs @110.00/hr) |                       | <b>\$3,960.00</b>  |
| - Hauling; 525 tons 32 hours @ \$1500.00/ hr                |                       | <b>\$48,000.00</b> |
| - Disposal; 525 tons @ \$33.00/ ton                         |                       | <b>\$17,325.00</b> |
| <b>7. Leachate Disposal (Siler City. POTW)</b>              |                       |                    |
| a. 3,150 gallons generated from cleaning facility           |                       |                    |
| b. Wastewater disposal @.05/gallon                          |                       | <b>\$158.00</b>    |
|   | <b>Subtotal</b>       | <b>\$77,423.00</b> |
| <b>10 %</b>   | <b>Contingency</b>    | <b>\$7,742.00</b>  |
| <b>5%</b>   | <b>Administrative</b> | <b>\$4,258.00</b>  |
|   | <b>TOTAL</b>          | <b>\$89,423.00</b> |

- The total tonnage estimate is derived from averaging the last 52 weeks of tonnage input on a weekly basis.

There is 525 tons of waste in the transfer station to be disposed of after one week.

*Attachment No. 3*

**Signature Page**

Signature page of applicant .

Name of facility \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business or organization name

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