



Fogleman & Fogleman Soils, Inc.
4005 Intermere Rd.
Durham, NC 27704
Phone # 919-682-0068 / 800-450-3827
Fax # 919-682-0662
LCID Landfill Permit # 32-F
Sand & Gravel Mine Permit #32-09

OPERATIONAL MANUAL

Table of Contents

- 1.0 Facility Operations
 - 1.1 Overview
 - 1.2 Contact Information
 - 1.2.1 Owner/Operator
 - 1.2.2 Call 911 in Emergency
 - 1.2.3 NCDENR
 - 1.3 Access Control
 - 1.3.1 Physical Restraints
 - 1.3.2 Security
 - 1.4 Signage
 - 1.5 Communications
 - 1.6 Fire and Safety
 - 1.6.1 Fire Control
 - 1.6.2 Safety Measures
 - 1.7 Severe Weather Conditions
 - 1.7.1 Ice/Snow Storms
 - 1.7.2 Heavy Rains
 - 1.7.3 Electrical Storms
 - 1.7.4 Violent Storms
 - 1.8 Equipment Requirements
 - 1.9 Utilities
 - 1.10 Record Keeping

APPROVED
 DIVISION OF WASTE MANAGEMENT
 SOLID WASTE SECTION
 DATE 19 DEC 2006 BY JONI WYCHE JONES
 PTO 32-F v. 2 ATTACH 1 PART IV DOC 1

Table of Contents-2

- 2.0 Waste Handling
 - 2.1 Overview
 - 2.2 Waste Screening
 - 2.3 Accepted/Prohibited Waste

- 3.0 Environmental /Surface Water
 - 3.1 Overview
 - 3.1.1 Erosion Control
 - 3.1.2 Storm water Control
 - 3.1.3 Dust Control
 - 3.1.4 Litter Control

- 4.0 Reclamation

Appendices: Fogleman and Fogleman Soils, Inc.

- A Durham County map
- B Permitted materials
- C Invoice/tickets
- D Fire occurrence
- E Liability insurance
- F US Army Corps letter
- G Storm water permit
- H Waste Industries invoice
- I Reclamation funds
- J Mining permit

Fogleman & Fogleman Soils, Inc.
(LCID Landfill Permit # 32-F)
(Sand & Gravel Mine Permit #32-09)

Operational Manual

1.1 Overview:

Fogleman & Fogleman Soils, Inc., hereafter referred to as Foglemans'. The objective of this facility is to mine, fill and reclaim. The achievable goal is to reclaim the mine as an LCID landfill, and then reclaim that landfill as the original pasture and forest land.

The information contained herein was prepared to provide Foglemans' landfill/mine personnel with a clear understanding of how the engineering design was developed to handle day to day facility operations within the NCDENR guidelines.

The site is located Four (4) miles Northeast of Durham, North Carolina, (Durham County) off Red Mill Road, at the intersection of I-85 North. Please see attached Durham County map, **Appendix A**

Incoming loads will be inspected prior to unloading. The Fogleman landfill unit will only accept for disposal the following according to LCID guidelines:

Inert Debris Waste: (Concrete, brick, concrete block, uncontaminated soils and rock, untreated and unpainted wood, etc)

Land Clearing Debris: as defined by G.S. 120A-290. Specifically, waste that is generated solely from land-clearing activities, such as stumps, trees, etc

Asphalt: in accordance with G.S. 130-294 (m)

Written instructions for acceptable waste are posted at the gate office, and mailed to all clients. Non-conforming waste will not be accepted, trucks will be directed to the city landfill. The gate attendant will conduct visual inspections. After passing the gate attendant, the load will be directed to the dumping area by the site attendant. **See appendix B**

The untreated, unpainted wood will be dumped at the top of the landfill to be freely distributed to members of the community for home heating use.

1.2 Contact Information:

1.2.1 Kent Fogleman

4005 Intermere Rd.

Durham, NC 27704

Ph# 919-682-0068 / 800-450-3827

Hm # 919-683-3256 / Cell # 919-795-4392

Fax # 919-682-0662

Hours of Operation - Monday – Friday 7am – 5 pm

1.2.2 Fire or Emergency

Call 911 in case of fire or accident emergency. This will alert the Durham County Sheriff's Department as well as Redwood Fire & Rescue Teams.

1.2.3 NC Department of Environment and Natural Resources:

Landfill:

NCDENR-Division of Waste Management

Solid Waste Section

401 Oberlin Rd. Suite 150

1646 Mail Service Center

Raleigh, NC 27669

Ph# 919- 508-8523

Mine:

NCDENR – Division of Land Resources

Land Quality Section

P.O. Box 27687

Raleigh, NC 27611-7687

Ph # 919-733-4574

Smoke or Fire:

NCDENR – Air Quality Control # 919-733-4574

1.3 Access Control:

1.3.1 Physical Restraints

The site will be accessed by the existing concrete entrance on Red Mill Road. There are posted signs marking the entrances which are securely locked by gates during non-operating hours. The roads have 5 MPH speed signs. Maintenance of the roads for all weather access will be accomplished by covering them with crushed rock and crushed asphalt. All trucks must stop at the gatehouse, where loads are inspected and they receive a ticket with fees according to the size of the truck. **See appendix C**

Locked control gates at the entrance/exit to Foglemans' facility are important for the following reasons:

- Unauthorized and illegal dumping of waste materials is prevented.
- Trespassing, and injury resulting therefrom, is discouraged.
- The risk of vandalism is greatly reduced.

Access to active areas of the landfill will be controlled by the combination of fences, gates and natural barriers, and strictly enforced during operating hours. A landfill attendant will be on duty at all times when the facility is open for public use to enforce access restrictions.

1.3.2 Security

Frequent inspections of gates, fences, berms will be performed by Fogleman personnel.

1.4 Signage:

A prominent sign(s) containing the information required by the NCDENR will be posted at the landfill entrance. They will provide information on operating hours, operating procedures, and acceptable wastes. Additional signage, 5MPH road signs are posted on roads and at the entrance and exit.

1.5 Communications:

Two way radio communications will be maintained between the active landfill/mine units and the landfill/mine gate house and office. The gate house and office have telephones in case of emergency and for the conducting of day-to-day business. Emergency telephone numbers are displayed in the gate house and office.

1.6 Fire and Safety:

1.6.1 Fire Control

No open burning is allowed in the landfill, but the possibility of fire within the landfill/mine, or a piece of equipment must be anticipated in the daily operation. Portable fire extinguishers will be operational on all heavy pieces of equipment at all times. For larger or more serious outbreaks, call 911, the local fire/rescue departments and Durham County Sheriff's Department will respond.

Fires within the landfill will be limited by the use of daily and intermediate soil coverage as a fire break and control of "hot" spots in the landfill. We have 8-10 acres of soil that is available for this use. We have had experience with a fire at our facility in 2001, although this fire happened during non-operational hours, and could not have been avoided; we have procedures in place to handle this situation. Landfill personnel at the gate house will turn away all trucks containing waste that is suspected to be hot. The facility will verbally notify NCDENR within 24 hours of discovery of a fire within any landfill disposal area. In addition, written documentation describing the fire, the actions carried out to extinguish the fire, and a strategy for preventing future occurrences will be provided to NCDENR within 15 days following any such occurrence. **See appendix D**

1.6.2 Safety

All aspects of the operation of the landfill facility were developed with the health and safety of the landfill's operating staff, customers, and neighbors in mind. The site safety officer, together with the facility's management will maintain a safety and emergency response program to remain consistent with National Solid Waste Management Association and Occupational Safety and Health Administration (OSHA) guidance. First aid kits and fire extinguishers are maintained on all pieces of equipment as well as in the office and gate house. Protective or enclosed cabs are also on all equipment.

1.7 Severe Weather Conditions:

Unusual weather conditions can directly affect the operation of the Foglemans' facility. Some of these weather conditions and recommended operational responses are as follows:

1.7.1 Ice Storms/ Snow Storms

An ice storm can make access to the landfill dangerous, prevent movement or placement of daily cover, and thus may require closure of the landfill until the ice is removed or has melted.

1.7.2 Heavy Rains

Exposed soil surfaces can create a muddy situation in some portions of the landfill during rainy periods. The control of the drainage and use of crushed stone or crushed asphalt on unpaved roads should provide all-weather access for the site and promote drainage.

1.7.3 Electrical Storms

The open area of a landfill is susceptible to the hazards of an electrical storm. If necessary, land filling activities will be temporarily suspended during such an event. To guarantee the safety of all field personnel, refuge will be taken in the on-site buildings or in rubber-tired vehicles.

1.7.4 Violent Storms

In the event of a hurricane, tornado, or severe winter storm warning issued by the National Weather Service, landfill operations may be temporarily suspended until the warning is lifted. Buildings and equipment will be properly secured.

1.8 Equipment Requirements:

Foglemans' will maintain on-site equipment required to perform the necessary landfill/mining activities. They will have enclosed or protective cabs. Periodic maintenance of all equipment, and minor/major repair work will be performed at designated maintenance zones outside the landfill. All pieces of equipment will have fire extinguishers and first aid kits.

1.9 Utilities:

Electrical power, water, telephone, and restrooms are provided at the landfill gate house and office.

1.10 Record Keeping:

Foglemans' shall maintain the following records in files at the landfill/mining office:

- A. Waste/Mining inspection records
- B. Daily truck size records
- C. Results of inspections, repairs, etc.
- D. Annual landfill/mining reports
- E. Financial insurance documentation (**See Appendix E**)

The operating record will be kept up to date by Foglemans'. It will be presented upon request to the NCDENR for inspection. A copy of this Operations Manual will be kept at the landfill and will be available for use by all employees at all times.

2.0 Waste Handling Operations:

2.1 Overview

This section describes the waste handling requirements. The person responsible for operations is:

Kent Fogleman
4005 Intermere Rd.
Durham, NC 27704
PH # 919-682-0068

Signs are posted at the gate entrances with name of owner/operator, phone number in case of emergency, and hours of operation.

This facility is reclaiming a mine site with waste according to LCID guidelines. After the reclamation is complete the land will be returned to original farm and forest land. A gate attendant will be on site during operational hours. The attendant will direct and visually inspect all incoming loads. All loads will be measured by truck size and these measurements will be recorded by the gate attendant on a 3-part ticket. The fees for truck sizes are posted for drivers and attendees information. All invoices/tickets have company names and are signed for by drivers. All vehicles are controlled by the gate/site attendants, and directional signs located within the facility. **See Appendix C** Again, any non-conforming waste will be turned away and directed to the Durham City Landfill.

2.2 Waste Screening

In order to assure that prohibited waste is not entering the landfill facility, screening polices have been implemented. Waste received at the gatehouse entrance, and the waste taken to the working face is inspected by trained personnel. These individuals have been instructed in how to spot indications of suspicious waste.

All vehicles must stop at the gate house located at the entrance to the facility. All waste transportation vehicles and their load are visually assessed by the attendant. The attendant may request from the driver of the vehicle a description of the waste he is carrying, to ensure that unacceptable waste is not allowed into the landfill. The attendant then writes a ticket/invoice with the company's name and size/cost of load. The driver signs the ticket and retains 1 part of the 3 part ticket. The remaining 2 parts are returned to Foglemans' office at the end of each day. **See Appendix C**

In the event any non-conforming waste is hidden and dumped in the landfill, the cost of the removal and disposing of any unacceptable waste will be charged to the owner of the vehicle involved. Any vehicle owner/operators who knowingly dump any unacceptable waste at the site may be barred from using the landfill.

2.3 Accepted/Prohibited Waste:

If unacceptable waste is found, the load will be turned away from the entrance. Upon discovery of any non-conforming waste the driver is notified by the gate attendant and the hauling company is notified by Foglemans' office, not to send any further debris of this nature. They are also faxed a copy of what is acceptable. **See Appendix B**

3.0 Environmental Management / Surface Water

3.1 The landfill is graded to eliminate water from ponding or collecting in any way.

3.1.1 Erosion control is provided primarily by 1.25 acres of settling ponds created for the mining activity. None of the land is in the 100 year flood plain, in a letter from the U.S. Army Corps of Engineers it is stated that the landfill does not impact jurisdictional waters or wetlands. **See Appendix F** The active area of operation in the landfill/mine will be maintained with the appropriate settling basins to control runoff. Erosion control shall be maintained as required, to guarantee proper functioning of the measures in place.

3.1.2 Storm water discharges have been addressed. The General permit # is NCG020000 and the Certificate of Coverage is #NCG020463. **See Appendix G** The dry creek bed is an unnamed tributary to Ellerbee Creek in the Neuse River basin.

3.1.3 The existing entrance from Red Mill Rd is constructed with a concrete roadway at the gate, followed by crushed asphalt and stone. Dust is controlled by watering the road with a 2000 gallon tanker truck.

3.1.4 Litter is collected daily in a receptacle provided by Foglemans' to discourage truck drivers from discarding their trash in the landfill. Other materials such as plastic, metal, paper, and trash (hidden under loads) are picked up and disposed of in these dumpsters from Waste Industries. **See Appendix H**

4.0 Reclamation:

Adequate soil cover shall be applied daily/monthly or when the active area reaches one acre in size. The interim soil cover shall be 1' thick. The mining area is being reclaimed as an LCID landfill. Once the landfill/mine is completed the original farm land will be reclaimed and returned to forest and pasture land. The sediment basins will be filled with landfill acceptable debris, covered with soil 2' thick, and regraded to the original contours. Eight to ten acres have been designated for this purpose. Vegetative covers, according to the approved NCDENR mining reclamation plan will then be planted within 2 years of the closure of the landfill/mine. All of these requirements have been established by NCDENR. See **Appendix I** for the Letter of credit (reclamation funds) and **Appendix J** for the NCDENR Reclamation Plan.

Appendices:

- A Durham County map
- B Permitted materials
- C Invoice/tickets
- D Fire occurrence
- E Liability insurance
- F US Army Corps letter
- G Storm water permit
- H Waste Industries invoice
- I Reclamation funds
- J Mining permit

**Fogleman & Fogleman Soils, Inc
4005 Intermere RD.
Durham, NC 27704
Ph # 919-682-0068/ 800-450-3827
Fax # 919-682-0662**

Just a friendly reminder

THIS LANDFILL IS PERMITTED TO RECEIVE ONLY:

STUMPS, LIMBS, LEAVES, UNPAINTED BRICK, UNPAINTED BLOCK, CONCRETE, UNPAINTED, UNTREATED WOOD, ASPHALT AS PER HB 1131 AND UNCONTAMINATED SOIL!

WE CANNOT ACCEPT ANY:

PLYWOOD, PRESSBOARD, SHINGLES, SHEETROCK, PAPER, PLASTIC, TRASH, METAL, WIRE, TIRES OR FURNITURE!

******If any of the above is brought in that we CANNOT accept it will be your physical and financial responsibility to remove it from our landfill! ******

Should you have a question regarding something that is not listed, please feel free to contact us.

Please respect our landfill and do not dump any personal trash (ex: cups, bags, food wrappers)

Thanking you in advance for your cooperation in keeping our landfill "clean"!

Sincerely,

Fogleman & Fogleman Soils Inc.