Permit No.	Date	DIN
0202	**September 29, 2010**	**11674**

RECEIVED
September 20, 2010
Solid Waste Section
Asheville Regional Office

ALEXANDER COUNTY SOILD WASTE TRANSFER STATION
PERMIT # 02-02T
OPERATION PLAN

I. INTRODUCTION AND BACKGROUND

This operation plan has been created on behalf of the Alexander County Department of Solid Waste for the Solid Waste Handling and Transfer Facility (Permit 02-02T). 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 primary landfill for municipal solid waste disposal will be the Foothill Environmental Caldwell County Landfill, Permit # 14-03, located at 2800 Cheraw Rd, Lenoir, NC 28645, telephone (828) 757-0965.

Zoning approval was acquired when the MSW transfer facility was originally permitted in 1998 and is still in compliance with any local zoning ordinances.

II. FACILITY LOCATION

The Alexander County MSW Transfer Facility is located in Alexander County, North Carolina. The facility, which is owned and operated by Alexander County, is located approximately 7 miles southeast of Taylorsville, NC on Paynes Dairy Road.

The physical address is as follows:

Alexander County Landfill
2500 Paynes Dairy Road
Taylorsville, North Carolina 28681

The mailing address is as follows:

Alexander County Landfill
621 Liledoun Road
Taylorsville, NC 28681

III. FACILITY OWNER

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

Rick French
Alexander County Manager
621 Liledoun Road
Taylorsville, NC 28681
Telephone: (828) 632-9332
Fax: (828) 632-0059

Josh Mitchell, Solid Waste Director
621 Liledoun Road, Box 12
Taylorsville, NC 28681
Telephone: (828) 632-9467

IV. FACILITY DESCRIPTION

The main MSW transfer structure is a metal building constructed on a concrete slab and 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 5,625 square feet (75 feet by 75 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 tank which will be pumped out by a licensed septage hauler. 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 Alexander County. The MSW handling and transfer facility will be used solely for the handling and conveyance of municipal solid waste generated within Alexander 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.

Waste is delivered to Alexander County's Solid Waste Transfer Station in County, municipal, public and privately owned vehicles. Approximately 75 tons per day of waste are transferred through the facility, based on a five and a half day week. The design capacity for this station is 200-250 tons per day. The transfer rate is expected to remain

constant relative to population growth. Thus, a proportional increase in waste quantities should be expected as Alexander County's population increases.

VI. OPERATION PLAN

A. General

The Alexander County Transfer Station will be open Monday through Friday from 8:00 AM until 4:00 PM and on Saturday from 8:00 AM to 12:00 PM. The facility may be closed on major holidays, such as Easter or Christmas. The operating hours may change due to fluctuations in the waste stream or other unforeseen conditions.

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. A certified operator will be on site at all times, during operational hours. 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:

- Alexander County accepts used tires daily. Tires are stacked by the pubic into the storage trailer. Scrap tire forms are kept by the certified scale house operator.

- Recycling is available on site to process source separated recyclable materials for market. A special cardboard collection facility is also present.

- Used lead-acid batteries are collected in a designated location. These batteries are stored on a wooden pallet adjacent to the recycling warehouse. Batteries are removed monthly or as needed.

- Yard Waste such as grass clippings, leaves, brush, and other debris is disposed of in the permitted area. Pallets are placed into a pile separate from brush and yard waste and ground as needed

- Old scrap metal material and appliances are collected in an area designated for scrap metals. These materials are processed and removed 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 disposed of at the same time as the scrap metal.

- Televisions, monitors, computer equipment, and other misc. electronics are placed on pallets or in Gaylord boxes at the electronics recycling area.

- A 1000 gallon used oil collection tank is available for disposal of used motor oil. A 500 gallon tank is on site for the disposal of antifreeze. The tanks are collected regularly by Noble Oil Services, 5617 Clyde Rhyne Drive, Sanford, NC 27330, telephone 1-800-662-5394.

- 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. Scale House Contingency Plan

Alexander County has a contract with Charlotte Scale stating in case of scale malfunction, Charlotte Scale will be on site within three to four hours. The landfill will be closed until the malfunction is corrected. If a problem occurs due to electrical outage, the landfill gate will be closed until power is restored.

If Alexander County C&D Landfill and Alexander County Transfer Station cannot operate in a reasonable period of time, all solid waste haulers will be required to transport waste to Foothill Environmental Caldwell County Landfill, Permit #14-03, located at 2800 Cheraw Rd, Lenoir, NC 28645, Telephone # 828-757-0965.

C. Equipment

The equipment, which is used at the MSW Transfer Station, is owned and operated by Alexander 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:

- Backhoe
- Front End Loader
- Open Top Transfer Trailers
- Switch Tractor

Waste unloaded onto the tipping floor will be pushed with a backhoe or front end loader directly into the open top trailers. The operator will change the bucket for a weighted packer to compress and pack the load inside the trailers, located in the lower level of the transfer station. Based on the current waste volume rates, the transfer station can be managed with the current equipment; 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).

D. 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 over see 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.

E. Waste Transfer

All vehicles will be weighed at the scale by a licensed certified public weigh master, 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 stations loading bay and unload onto the tipping floor over the facility's dock. A visual inspection will then be performed by the transfer station attendant to ensure only authorized waste is accepted. Waste will be pushed and compacted into the open top transfer trailer through the loading bay. Once full, the transfer trailer will transport the waste to the Foothill Environmental Caldwell County Landfill near Lenoir, NC and an empty trailer will replace the departing trailers.

Outgoing trailers will be weighed at the scale house for bookkeeping purposes and to ensure no overloaded vehicles will enter NC 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.

F. Wastewater Management

The tipping floor will be cleaned daily by using a push broom. Wastewater generated as a result of daily operations and periodic cleaning of the facility will be collected by a 1500 gallon holding tank through drain in the lower loading bay. No runoff or point source discharge will be allowed. Miller Septic Tank Service (Permit # NC500320) will clean the settling pit; any material will be hauled to an appropriate disposal facility.

G. Waste Screening

Alexander County will check each load for unacceptable material found in the waste stream. Any unacceptable material found will be removed and held for proper disposal. Waste screening will be conducted on one percent of the commercial waste or at least one load per day. Loads will be checked at random. Waste screening report forms will be kept on file in the station office. Operators will be trained in waste screening by a qualified person.

H. 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 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
- Container 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

Posted signs will inform facility users of prohibited waste. If inadvertent receipt of these wastes occurs, personnel will be available to isolate the material, take the appropriate measures, including returning the waste to the generator or removing it for appropriate disposal, and notifying the regulatory authorities immediately.

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 procedure and fire prevention. No flammable liquids will be 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 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 workday.

Dust: The access roads and the areas adjacent to the MSW Transfer Station are paved to help lessen the problems associated with dust. A water truck will wet the area as needed.

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

VII. YARD WASTE OPERATION PLAN

Alexander County will collect yard waste particularly brush, leaves and grass clippings in a designated area near the transfer station. The material will be screened at the scale house to assure that only brush, leaves and grass clippings are being collected in this area.

The leaves and grass will be pushed into a static pile or window using the loader at the transfer station. This pile will be monitored for heat and when it is determined that the heat is too high, the pile will be turned using the same equipment at least once per year. The static pile will be allowed to compost and the resulting product be distributed to the public or be used by the County as a soil additive. There will be less than 6,000 cubic yards processed quarterly.

Brush is kept separate and ground as needed. The resulting mulch is given away to the public or used around county owned buildings.

Records will be kept at the landfill office showing the weight of the yard waste that has been collected.

In case of a fire, the local volunteer fire department can be called if the landfill staff feels they cannot extinguish any fire that may occur.

CONTINGENCY PLAN FOR MANAGING LIQUID AND HAZARDOUS WASTES AT THE ALEXANDER COUNTY TRANSFER STATION

NOTE: HAZARDOUS WASTE CONTACTS
S.T.A.T. INC. 828-396-2304 (DAY OR NIGHT)

Should a liquid or hazardous waste be found at the Alexander County Landfill, the following action will be taken:

1. Attempt to identify the source, generator and hauler.
2. The generator and/or hauler will be asked to remove the waste.
3. If transfer station staff fails to identify the responsible party, action will be taken by the staff to remove the waste for proper disposal.

For sewage and sludge management, staff will take the following action:

1. Attempt to identify the source, generator and hauler.
2. Determine the volume and tonnage of the material.
3. Contact the NC State Mooresville Solid Waste Regional Office.

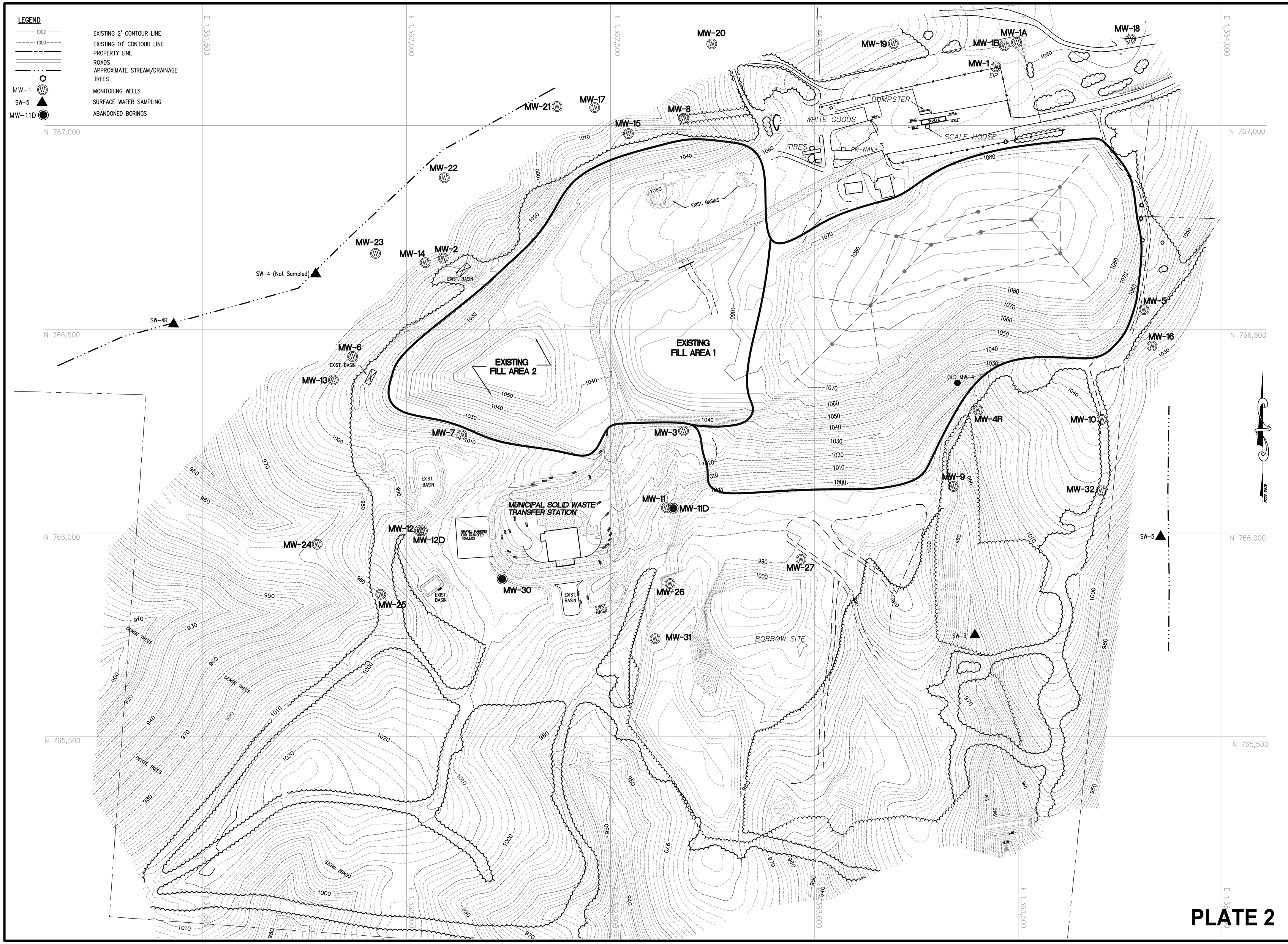

PLATE 2

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 346 BOONE, N.C. 28607 (828) 262-1767

CONSTRUCTION AND DEMOLITION LANDFILL FACILITY
ALEXANDER COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

FACILITY MAP

SCALE:	1" = 100'
DATE:	04/09/08
DRWN. BY:	L. HAMPTON
CHKD. BY:	E. CALDWELL
PROJECT NUMBER	G07060.0
DRAWING NO.	PLATE 2
SHEET NO.	1 OF 1

September 13, 2010

To Whom It May Concern:

Please allow this correspondence to serve as formal notification that the Alexander County Landfill, located at 2500 Paynes Dairy Road and identified by the Alexander County Tax Office as Tax I.D. Map F11-Lots 5, 5a, 5b, 11 and 11a, is in compliance with the Alexander County Zoning Ordinance at this time.

Should you have any questions, please feel free to contact me at 632-9332. Thank you.

Sincerely,

Sylvia L. Turnmire, AICP
Director of Planning & Development

cc: File

Alexander County Planning Department
621 Liledoun Road Taylorsville, North Carolina 28681
Phone: (828) 632-9332 Fax: (828) 632-0059