

OPERATION PLAN

Division of Waste Management
Solid Waste Section

Date September 3, 2009 By AAP

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FOR

BISHOP ROAD TRANSFER STATION GREENSBORO, NORTH CAROLINA

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1.0 INTRODUCTION

1.1 PURPOSE

This Operation Plan has been developed for the Bishop Road Transfer Station located in Greensboro, North Carolina. This Operation Plan (plan) has been prepared in accordance with the North Carolina Solid Waste Rules 15A NCAC 13B .0402, Operational Requirements for Transfer Facilities.

The purpose of this plan is to provide the owner and operator with a manual that includes the necessary information and procedures to properly operate the transfer station in accordance with all-applicable rules and regulations. This manual serves as a guide to safely maintain and operate the transfer station. The plan addresses the following issues:

- Waste acceptance criteria;
- Facility operations;
- Erosion control requirements;
- Drainage control and water protection;
- Disease and vector control;
- Signs and safety requirements;
- Access and security requirements; and
- Facility inspections.

All personnel involved with the management or supervision of the facility operations will be required to review the plan, and to maintain the facility in conformance with all applicable requirements. A copy of this plan will be kept on file at the transfer station at all times.

1.2 FACILITY LOCATION

The Transfer Station is located in Greensboro, North Carolina at 2140 Bishop Road. The transfer station building occupies approximately 0.4 acres of the 13 acre parcel of property. Access to the facility is from a paved entrance drive from Bishop Road.

The depository of the facility operating record and all operational records shall be at the on-site office. The contact information for this office is:

Bishop Road Transfer Station
2140 Bishop Road
Greensboro, NC 27406-9565
Telephone (336) 297-4248

1.3 FACILITY DESCRIPTION

The transfer station consists of a pre-engineered metal building with a transfer trailer loading bay equipped with scales, and a separate scale with scalehouse. The facility entrance road and driveways are paved with asphaltic concrete or graded aggregate.

The transfer station building consists of a tipping floor with a below floor grade loading bay located on the north side of the building. Incoming waste collection vehicles dump municipal solid waste (MSW) directly onto the tipping floor of the facility. From the tipping floor, a front-end loader lifts the waste into open top trailers specifically designed for hauling MSW. These trailers are located seven feet below the tipping floor grade level in the loading bay.

The transfer station building has metal panel walls on three (3) sides with the front side open for incoming waste loads. In addition, the building has 10-foot high

concrete push walls adjacent to the exterior walls on the back and right side. Incoming waste vehicles will enter the building through the open front.

The washdown water storage and handling system includes a drain for collection of washdown water from the loading bay. This drain is located in the covered loading bay to promote stormwater / leachate separation. In addition to the drains, curbing has been installed at the entrance and exit of the loading bay to further segregate stormwater and leachate. The floor of the transfer station will be sloped to assure washdown water does not leave the building. Washdown water flows from the drain to a sump system and is then pumped to the Greensboro Sanitary Sewer System.

The transfer station building apron and loading bays have a concrete paved surface. All access roads have an asphalt paved surface or all-weather construction (crushed gravel). The scalehouse is equipped with an above-grade scale.

The owner of the transfer station is Republic Services of North Carolina, LLC (Republic), who is responsible for all transfer station operations. Republic owns and operates many solid waste facilities in North Carolina and will ensure all employees receive necessary training for waste inspections, operations, and clean up of the facility. Mr. Mark Bacon will manage this facility and may be contacted at the address listed below:

Mr. Mark Bacon
Republic Services of North Carolina
2875 Lowery Street
Winston Salem, NC 27101-6127
(336) 714-4300

Additional contact information includes:

	<u>Office</u>	<u>Cell</u>
Mark Bacon	(336) 714-4300	(336) 287-7845
James Torrey	(336) 299-0815	(336) 403-8016
Foy Fleming	(336) 299-0815	(336) 403-8421

The facility and the associated trucking operation is subcontracted to K.R. Drenth Trucking, Inc. 137205 Rostner Street, Crestwood, IL, 60445, (708) 388-2222. The local contact is Carl Rhodes, (708) 670-4854.

2.0 WASTE ACCEPTANCE CRITERIA

The facility will only receive solid wastes as defined in G.S. 130A - 290(4), (14), (15), and (35), except that no hazardous or liquid waste will be accepted at the facility. The transfer station accepts municipal solid waste (MSW) (i.e., residential, commercial, and industrial waste) and C&D materials. The current service area for this facility includes all North Carolina Counties that fall within a 50 mile radius of the political border of Guilford County. A list of these counties is included at the end of the Operation Plan. The facility is designed to transfer 600 - 1,500 tons per day of waste. The daily tonnage rate is subject to change due to fluctuations in the amount of waste delivered to the facility on any given day, and also due to seasonal fluctuations in the waste stream.

Incoming waste is primarily transported to the transfer station by private or public waste haulers. These vehicles (operated by private waste haulers) consist of rear, front, and side loader truck types. Commercial and industrial waste will also be transported to the facility by private or public waste haulers.

2.1 RECYCLABLE MATERIAL

Recyclable materials such as newspaper, plastics, glass and plastic bottles, wood pallets, etc. may be removed from the waste stream prior to entering the transfer station. Portions of dry recyclable material such as metals and cardboard may be separated for recycling at the transfer facility, however, no recyclables will be separated from putrescible garbage.

2.2 PROHIBITED WASTES

The transfer station will not accept barrels and drums unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained in them. No hazardous or liquid waste will be accepted at the transfer station. In addition, the transfer station will not accept asbestos material, infectious waste, medical waste, animal waste, animal carcasses, radioactive waste, lead acid batteries, or white goods. A report will be prepared for any attempted delivery of waste of which the transfer station is not permitted to receive, including waste from outside the permitted transfer station service area. The report will be forwarded to:

North Carolina Department of Environment & Natural Resources
(NC DENR)
Solid Waste Section
585 Waughtown Street
Winston-Salem, NC 27107
(336) 771-4600

3.0 TRANSFER STATION OPERATIONS

The transfer station will typically receive waste Monday through Saturday. The standard operating hours will be 4:00 a.m. to 7:00 p.m. Monday thru Saturday. The transfer station will typically be closed on Sundays and designated holidays; however, maintenance or improvement construction may be accomplished on these days. A sign will be posted at the entrance to the transfer station identifying the hours of operation.

Since the transfer station will be operated as a tipping floor facility, the only equipment required for safe and effective operation of the facility are rubber-tired front-end loaders, transfer trailer trucks, and the scales. However, additional equipment may be utilized to facilitate loading operations. The owner will provide properly trained personnel for daily operations of the transfer station and primary equipment, backup equipment, and equipment maintenance. Backup equipment and trucks for transferring and hauling waste will be available on-site and from local equipment rental companies.

Solid waste leaving the site will be transferred via transfer trailers to the Uwharrie Regional Landfill in Montgomery County, North Carolina. Alternate disposal sites for waste leaving the transfer station will be Charlotte Motor Speedway Landfill in Concord, North Carolina, East Carolina Regional Landfill in Windsor, North Carolina, Upper Piedmont Regional Landfill in Person County, North Carolina, or Foothills Regional Landfill in Caldwell County, North Carolina. These alternate sites can only be utilized if their approved service areas allow such disposal. In addition, other MSW Landfills with acceptable service areas may be utilized. NCDENR will be notified if final disposal sites change in the future.

3.1 PERSONNEL

The transfer station operations will be supervised by the site manager. A minimum of two (2) staff employees, a scalehouse operator, and heavy equipment operator are required for the daily operation of the transfer station. All employees will be

properly trained in safety procedures and the inspection of incoming wastes (see Section 3.3 - Inspection of Wastes). Transfer station employees will also direct and coordinate the movement of collection vehicles into and out of the transfer station.

3.2 TIPPING FLOOR OPERATIONS

Collection vehicles delivering residential, commercial, and industrial waste to the facility will enter the facility via the main gate where they will be required to be weighed on the inbound scales. Once vehicles have passed the scalehouse area, they will continue along the access road until reaching the transfer station. The transfer station building has existing 10-foot high concrete push walls along one side and the rear of the tipping floor, and a depressed loading bay, located along the left side of the tipping floor below the tipping floor elevation.

The transfer station attendant will direct vehicles, waiting to unload, to back into the facility through the west side of the building. Once there is sufficient room to maneuver on the concrete floor, the vehicles will back onto the tipping floor to an unloading area designated by the attendant. The facility has been designed so 2 - 4 vehicles can simultaneously dump waste to the tipping floor. When the vehicle is in position, the waste load will be discharged directly onto the tipping floor and the driver will be instructed to slowly move the vehicle away from the tipping floor, and exit the transfer station. The heavy equipment operator will continuously push dumped waste towards the north end of the tipping floor. The waste will be placed in the open-top transfer trailers located in the loading bay of the transfer station.

The lower loading bay area (below floor grade) has been designed to provide sufficient space for drivers to exit their vehicles and to walk to safety in the event of an emergency.

During times when several vehicles are at the transfer station, haulers will be instructed to wait at the truck staging area adjacent to the transfer area until there is sufficient room at the tipping floor within the transfer building. The size of the tipping floor will allow up to four (4) trucks to dump simultaneously.

The facility is designed so that washdown water can be collected by a drain located in the pit area on the lower level of the transfer station. Washdown water remaining on the tipping floor will be collected using absorbing agents and emptied into transfer trailers for disposal in an approved facility. Washdown water that reaches the loading bay will flow into the sump. From the sump washdown water will be pumped into the Greensboro Sanitary Sewer System.

The tipping floor will be cleared of all wastes at the end of each working day. No putrescible wastes or free liquids are allowed to remain on the transfer station tipping floor at the end of the working day, unless it is stored in containers designed for waste storage.

The specific minimum cleanup schedule for the facility is listed below:

- A. Clean all waste off tipping floor and from truck pitDaily
- B. Facility washdown with pressure washers including removal of excess dust and other debrisMonthly
- C. Police site for litter and debrisDaily

The facility shall maintain a record of all monthly clean-up activities in the facility operating record.

3.3 INSPECTION OF WASTES

Access to the transfer station is controlled by the scale operator located at the entrance to the facility. All waste entering the facility must pass the scalehouse prior to entering the tipping floor area. As waste is deposited onto the tipping floor, an employee who has received proper training, will conduct a visual inspection of the waste materials. Should unacceptable waste be found, the driver of the vehicle will be instructed to terminate unloading and the unacceptable waste material will be re-loaded into the vehicle for removal from the site. Waste collection agreements will be kept on file for each of the waste delivery accounts, allowing the transfer station operator to maintain accountability for the different haulers utilizing the facility.

Additionally, the facility shall randomly select one vehicle per week for random waste screening. The material from this load shall be spread, and a list of items in that load should be listed. This form shall be retained by the facility. Should a hauler consistently deliver unacceptable material, he will be denied further access to the transfer station, and the local office of NC DENR will be notified so that appropriate investigations can be conducted if necessary. In addition, all actions specified in Section 2.0 (WASTE ACCEPTANCE CRITERIA) will be strictly adhered to by the facility operator and its employees.

If hazardous or prohibited waste is detected after being dumped at the tipping floor, it shall be segregated with cones, ropes, roll-off boxes, sawhorses, or other type barricades to prevent its movement or being mixed in with other waste. If it cannot be segregated, the Transfer Station must be closed until the unacceptable material is removed.

If the material can be segregated and protected, the station can continue to operate. After segregation, a qualified contractor shall be called to remove the unacceptable material and properly dispose of same. The only exception will be when the material can be reloaded on the vehicle delivering the material.

Contractors who may be called include:

Republic's National Contracted vendor:
Emergency Response and Training Solutions (ERTS)
1-800-924-6804

Fenn-VAC, Inc.
141 Fennell Road
North Charleston, SC 29418
(843) 552-8306

Shamrock Environmental, Inc.
6106 Corporate Park Drive
Brown Summit, NC 27214
(800) 881-1098

The facility shall notify DENR and put a complete record of the event in the facility operating record.

3.4 TRAFFIC CONTROL

Access to the transfer station is controlled by the scalehouse operator. All vehicles arriving at the facility are directed to the tipping floor area by the scalehouse operator after their weight is recorded. The site attendant will direct the vehicle to the unloading area, as outlined in Section 3.2. The flow of traffic will be aided by directional signs.

3.5 HOUSEKEEPING AND LITTER CONTROL

All incoming waste vehicles are required to have their loads tarped upon arrival at the facility, or the load must be fully enclosed. Outbound transfer trailers are also required to tarp their loads. Throughout the day and at the end of each day, facility personnel will police the building and surrounding areas for any windblown litter. Since the transfer station is enclosed on three sides, wind blown litter should not be a major operational concern. Any wind blown litter discovered at the end of an operating day will be collected and stored in a transfer trailer vehicle, or an on-site trash bin for proper disposal.

3.6 NOISE CONTROL

Noise will be created at the facility resulting from of vehicular traffic and operation of the transfer station equipment. Noise from the collection and transfer vehicles, as well as the rubber-tired front-end loader servicing the transfer station, are all reduced by mufflers. Other noise generated within the building from waste handling is significantly abated by the structure that encloses the transfer station.

3.7 ODOR CONTROL

Odors are controlled by prompt unloading and transfer of all delivered wastes at the transfer station. Adequate fresh air exchange is ensured through the open front of the building and the openings in the loading bay. The only time waste is stored temporarily at the transfer station is when a transfer trailer is loaded at the end of the day and must wait until the landfill disposal site opens the following day, or at the end of a weekend or holiday. In such cases, the waste will be stored in covered transfer trailers or roll-off boxes.

The facility may utilize a mechanical odor control system if the above items fail to adequately control odors. However, under normal operating conditions, an odor control system is not required at the facility.

4.0 EROSION CONTROL REQUIREMENTS

Areas adjacent to the transfer station are graded away from the facility and drain via sheet run-off or through drainage ditches. Standard erosion and sedimentation control practices, such as vegetating exposed slopes and directing stormwater into ditches have been implemented at the site. Additional surface drainage dikes, berms, curbs, inlets, and other devices have been installed to assure leachate does not enter the storm drainage system. The facility has an approved erosion and sediment control plan.

5.0 DRAINAGE CONTROL AND WATER PROTECTION REQUIREMENTS

The transfer station will be operated to prevent storm water from coming in contact with waste, and to contain and properly dispose washdown water.

The tipping floor and transfer loading bay will be emptied at the end of each operating day. Any free liquid on the tipping floor will be collected using absorbing agents and properly disposed. Initial response to spills or other releases will be from the Sedgefield Volunteer Fire Department, backed up by the City of Greensboro Haz-Mat team.

Washdown water collected in the drain in the loading bay will be pumped into the Greensboro Sanitary Sewer System. Temporarily, washdown water may be stored in a tank for pump and haul to a POTW. The use of washdown water will be kept to the minimum necessary to maintain a clean facility.

6.0 DISEASE AND VECTOR CONTROL

The transfer station will provide effective vector control measures for the protection of human health and the environment. Disease vectors are defined as any rodent, flies, mosquitoes, or other animals, including insects, capable of transmitting disease to humans.

Control of disease vectors will be maintained by implementation of a daily cleaning program that involves removal of waste and wastewater from the facility operating areas. The removal of waste at the end of each operating day will protect against migration of vectors into and from the transfer station. The facility operator may also use insecticides or pest control professionals to accomplish these goals. Stagnant water will be prevented from occurring to control mosquito breeding. If problems controlling disease vectors occur, a pest control professional will be employed.

7.0 SIGN AND SAFETY REQUIREMENTS

7.1 SIGN REQUIREMENTS

The transfer station will post signs at the entrance indicating acceptable wastes, hours of operation, emergency contact information, and the permit number. Signs will be clearly posted stating that no hazardous or liquid waste can be received. Traffic signs and markers will be provided as necessary to promote an orderly traffic pattern to and from the unloading area, and to maintain efficient operating conditions.

A sign shall be installed and maintained at the entrance of the facility with the facility name and permit number. It shall also clearly state “No Hazardous or Liquid Waste Accepted”.

7.2 OPEN BURNING OF WASTE

Open burning of waste is prohibited at the transfer station.

7.3 FIRE PROTECTION EQUIPMENT

Fire suppression equipment will be provided to control accidental fires. The transfer station building will be equipped with an appropriate number of fire extinguishers to effectively control accidental fires. All personnel will be trained in effective fire-fighting procedures and in fire prevention. No flammable liquids will be stored in the building. In the case of a fire, the Sedgefield Fire Department will be alerted by calling 911. The fire department is located within 1 minute of the facility. On-site training and facility walk-through will be conducted with the fire department as needed.

7.4 NOTIFICATION OF FIRE

Fires that occur at the transfer station require verbal notice to the Solid Waste Section within 24 hours, and written notification shall be submitted within 15 days. Verbal and written notification will be submitted to:

North Carolina Department of Environment & Natural Resources
(NCDENR)
Solid Waste Section
585 Waughtown Street
Winston-Salem, NC 27107
(336) 771-4600

8.0 ACCESS AND SECURITY REQUIREMENTS

8.1 TRANSFER STATION ACCESS AND SECURITY

The transfer station must be secured by means of gates and fences. All vehicles delivering waste to the transfer station will enter and exit through the access control gate. Chain-link fencing surrounding the transfer station property prevents unauthorized vehicle access to the facility.

8.2 ATTENDANT

The transfer station will have a full-time scalehouse operator located in the scalehouse during operating hours. In addition, a transfer station attendant will be at the facility at all times during operating hours. Both the scalehouse operator and transfer station attendant will be responsible for verifying that all vehicles comply with the permitted operational requirements.

8.3 ACCESS ROAD

The access roads for the transfer station have been constructed of an all-weather surface (concrete, asphalt or graded aggregate) and will be maintained in good condition. Potholes, ruts, and debris on the paved surfaces will receive immediate attention in order to avoid damage to the vehicles. Access road shoulders will be regraded as necessary to maintain positive slope for adequate drainage. Since collection and transfer vehicles travel at low speeds on paved roads, dust generation is not anticipated to be a problem. Should dust control become necessary, a water truck will be utilized.

9.0 FACILITY INSPECTIONS

There will be regular inspections conducted at the transfer station. Inspections will be conducted by site personnel who are familiar with the operations of the facility. Items that will be inspected monthly will include, but not be limited to, the following:

1. Transfer trailers;
2. Push walls;
3. Fire extinguishers;
4. Electrical controls;
5. Trench drain, floor drains, and yard hydrant; and
6. Washdown water collection sump and pump.

Records of all facility inspections will be maintained in the scalehouse.

If unsatisfactory conditions are noted during the inspection, or by the transfer station personnel at any other time, the concerns shall be reported to the general manager. If a threat to safety or to the environment is identified, immediate action shall be taken to correct the situation. If necessary, operations at the transfer station will be suspended temporarily until the proper corrective actions have been taken.

In addition to these records, random inspection forms discussed in Section 3.3 shall be retained by the facility.

10.0 Approved Service Area

The following counties are included in the service area for the referenced facility. The service area is defined as all North Carolina counties that fall within a 50 mile radius of the political border of Guilford County.

Alamance	Montgomery
Cabarrus	Moore
Caswell	Orange
Chatham	Person
Davidson	Randolph
Davie	Rockingham
Durham	Rowan
Forsyth	Stanly
Greenville	Stokes
Guilford	Surry
Harnett	Wake
Iredell	Wilkes
Lee	Yadkin

APPENDIX A

- **Facility Plans**

APPENDIX B

- **Zoning Letter**

APPENDIX C

- **Load Inspection Form**