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Raleigh, North Carolina  
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| Backus     | 8/11/2016 | 26609  | 2805T-TRANSFER |



August 3, 2016

Ms. Patricia Backus, P.E.  
N.C. Division of Waste Management  
Solid Waste Section – Permitting Branch  
1646 Mail Service Center, Raleigh, NC 27699-1646

Subject: Dare County, North Carolina  
Dare County MSW Transfer Station  
Permit No. 28-05T  
Permit Renewal Application



Dear Ms. Backus:

On behalf of Dare County, CDM Smith Inc. is submitting two (2) copies and one electronic copy of the permit renewal application for the Dare County Transfer Station. The permit renewal application includes general facility information as well as a site and operations plan in accordance with 15A NCAC 13B .0401. In addition, the permit amendment includes the most current facility plan and the current deed to the property.

Per the Permit to Operate issued February 16, 2012 the permit expires on December 18, 2016. Please accept this submittal as required in the Permit to Operate.

If you have any questions or need any additional information, please contact me by email to [colonemf@cdmsmith.com](mailto:colonemf@cdmsmith.com) or by phone at (919) 325-3569.

Sincerely,

Mathew F. Colone, P.G.  
CDM Smith Inc.

cc: Edward Lee Mann, Dare County  
Clyde Gard, Dare County  
Kenton Yang, P.E., CDM Smith



**Dare County  
MSW Transfer Station  
Facility Permit No. 28-05T  
Permit Renewal Application**

**August 2016**



**CDM  
Smith**

# Dare County MSW Transfer Station

Permit Number 28-05T

Dare County, North Carolina



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## MSW Transfer Station Permit Renewal Application

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August 2016

NC Firm License No.: F-1255



Raleigh, North Carolina

# Table of Contents

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|   |            |
|---|------------|
| <b>1. Introduction.....</b>                     | <b>1-1</b> |
| 1.1 Purpose .....                               | 1-1        |
| 1.2 Facility Location .....                     | 1-1        |
| 1.3 Facility Description.....                   | 1-1        |
| 1.4 Contacts .....                              | 1-3        |
| <b>2. Waste Acceptance Criteria.....</b>        | <b>2-1</b> |
| 2.1 Recyclable Materials.....                   | 2-1        |
| 2.2 Prohibited Wastes .....                     | 2-2        |
| 2.3 Prohibited Wastes – Contingency Plan.....   | 2-2        |
| <b>3. Transfer Station Operations.....</b>      | <b>3-1</b> |
| 3.1 Hours of Operation.....                     | 3-1        |
| 3.2 Operating Equipment and Personnel.....      | 3-1        |
| 3.3 Operating Procedures.....                   | 3-2        |
| 3.4 Waste Screening Operations.....             | 3-2        |
| 3.5 Windblown Litter Control.....               | 3-2        |
| 3.6 Maintenance.....                            | 3-2        |
| <b>4. Erosion Control .....</b>                 | <b>4-1</b> |
| <b>5. Leachate and Stormwater Control .....</b> | <b>5-1</b> |
| 5.1 Leachate Control.....                       | 5-1        |
| 5.2 Wash Water Control .....                    | 5-1        |
| 5.3 Stormwater Control.....                     | 5-1        |
| <b>6. Disease and Vector Control.....</b>       | <b>6-1</b> |
| <b>7. Sign and Safety Requirements .....</b>    | <b>7-1</b> |
| 7.1 Sign Postings.....                          | 7-1        |
| 7.2 Open Burning of Waste .....                 | 7-1        |
| 7.3 Fire Control .....                          | 7-2        |
| 7.4 Inclement Weather.....                      | 7-2        |
| 7.5 Equipment Failure.....                      | 7-2        |
| <b>8. Access and Security Requirements.....</b> | <b>8-1</b> |
| 8.1 Transfer Station Access and Security.....   | 8-1        |
| 8.2 Attendant.....                              | 8-1        |
| 8.3 Access Road.....                            | 8-1        |
| <b>9. Record Keeping Requirements.....</b>      | <b>9-1</b> |
| 9.1 Record Requirements .....                   | 9-1        |
| 9.2 Operating Requirements .....                | 9-1        |

## Appendices

### Appendix A Property Deed

### Appendix B Facility Plan Sheet (SD-1)

# Section 1

## Introduction

### 1.1 Purpose

The purpose of this permit renewal is to provide general information, an operation plan and certifications for the Dare County Municipal Solid Waste (MSW) Transfer Station. This document provides general instruction for facility management and personnel to operate the facility in accordance with the Department of Environmental Quality (NCDEQ) Division of Waste Management – Solid Waste Section. This permit renewal has been prepared in accordance with the practices outlined in NCDEQ’s Application Guidance for a MSW Transfer Station and North Carolina Solid Waste Rules 15A NCAC 13B .0402, Operational Requirements for Transfer Facilities and consists of the following sections:

- Waste Acceptance Criteria;
- Facility Operations;
- Erosion Control;
- Wash Water and Stormwater Control;
- Disease and Vector Control;
- Sign and Safety Requirements; and
- Access and Security Requirements.
- Record Keeping Requirements.

### 1.2 Facility Location and Zoning

The Dare County Transfer Station is located on the west side of Highway 264 at 1603 Cub Road, Manns Harbor, Dare County, North Carolina (Northing 35.83498/Easting 75.82002) as shown on **Figure 1.1**. The 837.8 acre parcel has been owned by Dare County since September 15, 1987. The transfer station resides on approximately 5 acres of this property. A copy of the registered deed is provided in **Appendix A**. The site consists of a transfer station, maintenance building, scale house, C&D landfill, borrow pit, and gravel and asphalt access roads as shown on the Facility Plan sheet provided in **Appendix B**.

### 1.3 Facility Description

Operations at the Dare County Transfer Station began in December 2006 under Facility Permit No. 28-05T. Dare County contracts with Bowen Company, Inc. to operate the transfer station and to transport waste to the East Carolina Environmental Landfill (Permit No. 0803-MSWLF-1993) located in Bertie County.



Figure 1.1 - Location Map Dare County Transfer Station

Waste from residential, commercial, and industrial sources collected from routes in Dare, Hyde, and Tyrrell counties can be accepted at the station. The waste is transported to the transfer station by private haulers, County-owned collection vehicles and County residents. C&D waste collected in Tyrrell County can be comingled with MSW at the transfer station and disposed of at the East Carolina Environmental Landfill.

The transfer station processed approximately 52,815 tons of waste from July 1, 2015 through June 30, 2016. The total tonnage processed includes 52,815 tons of waste received from Dare County and 0 tons of waste from Hyde County. The station receives approximately 170 tons of waste per working day and processes an average of approximately 4,400 tons per month.

Vehicles entering the transfer station are directed by a station attendant. Waste is dumped onto the tipping floor and heavy equipment is used to push the waste through chutes where it is deposited into transfer trailers located in one of two loading bays on the lower level of the building.

## 1.4 Contacts

The primary contact for the transfer station is the Transfer Station Supervisor. Contact information for the Transfer Station Supervisor and Public Works Director are provided below:

- |   |                |
|---|----------------|
| <ul style="list-style-type: none"> <li>▪ Mr. Clyde Gard, Transfer Station Supervisor<br/>Dare County Public Works Department</li> </ul> | (252) 475-5880 |
| <ul style="list-style-type: none"> <li>▪ Mr. Edward Mann, Public Works Director<br/>Dare County Public Works Department</li> </ul>      | (252) 475-5888 |

The physical address for Mr. Gard and Mr. Mann is:

Dare County Public Works Department  
1018 Driftwood Drive  
Manteo, North Carolina 27954

The Transfer Station Operator is:

Bowen Company Inc.  
P.O. Box 394  
Belhaven, North Carolina 27810

Contacts for Bowen Company, Inc. are:

- |  |               |
|--|---------------|
| <ul style="list-style-type: none"> <li>▪ George Bowen</li> </ul> | (252)943-7098 |
| <ul style="list-style-type: none"> <li>▪ Stacey Bowen</li> </ul> | (252)943-8417 |

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## Section 2

### Waste Acceptance Criteria

The Dare County Transfer Station shall only accept solid waste as defined herein and only transfer waste as permitted for acceptance at the East Carolina Environmental Landfill in Bertie County.

#### 2.1 Recyclable Materials

Each load of waste is dumped onto the tipping floor and inspected for recyclable materials. Recyclable materials are separated and are not allowed to stay on the tipping floor for more than 48 hours or two business days. The following recyclables are extracted from the waste prior to loading it in transfer trailers for management:

- Tires;
- Concrete (including reinforced and unpainted concrete);
- Asphalt; and
- Metals (propane tanks, drums, white goods, and other).

Tires separated from the MSW are stockpiled adjacent to the transfer station building. Dare County personnel transport the tires to the Dare County Recycling Center located at 1018 Driftwood Drive, Manteo, North Carolina. The tires are picked up weekly at the recycling center by a private company and disposed of at a processing plant located in Waverly, Virginia.

Concrete and asphalt is separated from the MSW and temporarily stockpiled on the tipping floor. A front end loader or similar piece of equipment is used to transport the concrete and asphalt to a storage area located at the end of Cell 4 of the C&D landfill adjacent to Link Road. A private company is contracted to crush the concrete and asphalt as needed. The County uses the processed concrete and asphalt for roadway fill at the adjacent C&D landfill and for other projects throughout the County.

Metals are separated from the MSW and stockpiled on a gravel pad adjacent to the fenced perimeter of the transfer station. Metal recyclables include propane tanks, drums, white goods, and other similar type metals. Dare County employees inspect each propane tank that is collected for recycling to confirm the tank is empty. Following inspection, the tank valve is removed. Metal barrels and drums are only recycled if they are free of liquid and are perforated to ensure that no liquid or hazardous waste is contained therein. Recyclable metals are transported to the Dare County Recycling Center by Dare County employees, where the materials are separated and collected by private companies for recycling. White goods are collected by United Salvage & Auto, Inc. United Salvage & Auto, Inc. is responsible for the removal of Freon from white goods.

Stockpiled metals are not allowed to remain on site for more than 30 days prior to transporting them to the Dare County Recycling Center.

## 2.2 Prohibited Wastes

The following wastes are prohibited at the Dare County Transfer Station:

- Hazardous Waste;
- Containerized or Bulk Liquid Waste;
- Infectious Waste;
- Medical Waste;
- Animal Waste;
- Electronics;
- Animal Carcasses;
- Radioactive Waste;
- Land Clearing and Inert Debris (LCID);
- Wood Pallets; and
- Asbestos.

Wood pallets, LCID, and electronics are separated from MSW at the transfer station when spotted by transfer station personnel. Wood pallets and LCID waste are transported to the adjacent C&D landfill for disposal. Electronics are stockpiled adjacent to the transfer station building and are transported by Dare County personnel to the Dare County Recycling Center where a private company collects them for recycling.

Signs are posted at the facility entrance and at the perimeter entrance gate to the transfer station warning customers that hazardous waste is not accepted. A report identifying the waste type and hauler will be prepared for any attempted delivery of a prohibited waste. The report will be submitted to:

Mr. Ray Williams  
Environmental Senior Specialist  
North Carolina Department of Environmental Quality  
Washington Regional Office  
Solid Waste Section  
943 Washington Square Mall  
Washington, North Carolina 27889  
(252) 948-3955

## 2.3 Prohibited Wastes – Contingency Plan

Every effort will be made to preclude acceptance of prohibited wastes through education and inspection, but in the case of inadvertent receipt of these wastes, personnel will be available to

isolate the material; return the waste to the generator or removing it for appropriate disposal; and notification to the regulating authorities immediately. In the event hazardous materials are disposed, the initial response will be from the Dare County Haz-Mat team by calling 911.

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## Section 3

# Transfer Station Operations

### 3.1 Hours of Operation

The Dare County Transfer Station operating hours are Monday through Friday from 7:00 a.m. to 5:00 p.m. and Saturday from 7:00 a.m. to 12:00 p.m. The transfer station is closed on Sundays and on the following holidays:

- Thanksgiving Day,
- Christmas Day, and
- New Year's Day.

A sign is posted near the facility entrance identifying the hours of operation. The transfer station operating hours are subject to change and special circumstances may cause temporary closure. In the event of a hurricane, transfer station operations will cease to prepare for the impending storm.

### 3.2 Operating Equipment and Personnel

The transfer station utilizes the following equipment for operations:

- Weight Scales and Associated Software;
- Front End Loader;
- Two (2) Backhoes;
- Two (2) Yard Dogs (i.e. small tractor trailers used to position transfer trailers on site)
- Transport Tractor Trailers; and
- Four to eight (4-8) 48-foot Transfer Trailers.

All pertinent personnel operating the transfer station have completed a training course in compliance with G.S. 130A-309.25. A trained employee will be onsite during hours of operation to oversee facility operations. The number of personnel and their title used to operate the transfer station are:

| <u>Title</u>                | <u>Number of Personnel</u> |
|-----------------------------|----------------------------|
| Transfer Station Supervisor | 1                          |
| Transfer Station Attendant  | 1                          |
| Scale House Operator        | 1                          |
| Equipment Operators         | 6                          |

### 3.3 Operating Procedures

All vehicles delivering waste to the facility are directed to the scale house for weighing. Once vehicles are weighed they are directed west along Cub Road to the transfer station entrance on the left. Vehicles entering the transfer station follow the access road to the tipping building access apron. The tipping building apron provides access to the south side of the transfer station, which opens to the 14,000 square foot tipping floor.

The tipping building has 10-foot high push walls running along the interior walls and in the center that allow equipment operators to push waste to chutes feeding transfer trailers located in bays on the lower level of the building. The building is divided into two separate tipping areas that are used to process waste. The County may use one of the two tipping areas for MSW and the other for processing a different waste stream (e.g. LCID) should the County choose to modify its current waste acceptance policy. Approval will be obtained from the NCDEQ Solid Waste Section prior to implementing any changes to the current waste acceptance policy.

The transfer station operator will direct vehicles waiting to unload onto the tipping floor. Adequate area is available at the tipping building access apron for drivers to queue their vehicles into a backing maneuver. Transfer station personnel are on the tipping floor to guide each vehicle to a designated area for unloading. Each load of waste is inspected for recyclables and prohibited wastes. Prohibited wastes are outlined in Section 2.2. Inspected waste is directed to a chute using a front end loader or similar piece of equipment, where it is deposited into a transfer trailer.

### 3.4 Waste Screening Operations

Access to the transfer station is controlled at the scale house. All waste entering the station must pass the scale house before entering the tipping floor. Each load is subject to visual inspection for prohibited waste at the scale house. Loads are visually inspected by transfer station personnel as they are discharged onto the tipping floor. Should prohibited waste be identified, transfer station operations will be terminated; and material from the hauler will be reloaded onto the vehicle and removed from the facility as practicable. Reporting of the illicit event will be recorded and reported as defined in Section 2 of the Operation Plan.

### 3.5 Windblown Litter Control

All collection vehicles with waste are required to have their loads covered upon arrival at the scale house or fully enclosed to minimize windblown litter. Outbound transfer trailers are also required to cover their loads. The transfer station is enclosed on three sides, which minimizes windblown litter. Throughout the day and at the end of each day, the transfer station operator observes the area for windblown litter. Windblown litter discovered throughout the day is placed in on-site trash bins. Occasionally, Dare County uses inmates from the Tyrrell Prison Work Program to assist with the collection of windblown litter.

### 3.6 Maintenance

General facility maintenance is performed, as needed, outside of normal operating hours.

## Section 4

# Erosion Control

All unpaved areas are maintained to promote a healthy stand of vegetative cover to minimize erosion. Stormwater drainage and control is discussed in Section 5.

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## Section 5

# Leachate and Stormwater Control

### 5.1 Leachate Control

The transfer station wastewater collection system drains by gravity piping to a 2,000 gallon underground storage tank (UST) where small debris mixed with the leachate is separated by baffles, which are cleaned as necessary. The leachate then flows to a 500 gallon UST with a grinder pump installed to remove debris prior to being pumped to a 10,000 gallon above ground storage tank (AST). A tank high water level alarm (visible and audible) is automatically activated when the liquid volume in the AST reaches approximately 8,000 gallons. The tank alarm system is located in the office of the transfer station building. The AST is located inside a concrete containment wall to prevent leaks or overflows from discharging to the ground surface. The AST is inspected daily by Dare County personnel.

The County contracts with a licensed private disposal company to collect and transport the leachate to a treatment plant located in Elizabeth City, North Carolina. In general, the County schedules the wastewater to be collected when the liquid volume in the AST is at 5,000 gallons.

### 5.2 Wash Water Control

Water used for cleaning activities at the transfer station is pumped from a pond adjacent to the scale house. A transfer pump is located in a grassed area inside of the fenced perimeter of the transfer station.

The tipping floor and lower level loading bays are washed down periodically throughout the day and cleared of all waste at the end of each day for a final wash down. Wash down water used to clean the tipping floor is collected by trench drains located at the tipping floor entrance. Wash down water used to clean the transfer trailer loading bays is collected by a grated floor drain located near the middle of each bay and trench drains located at the entrance and exit of each bay. All wash water is conveyed to the transfer station wastewater collection system.

### 5.3 Stormwater Control

Site grading conveys stormwater away from the transfer station operations and into rip-rap protected grate drains located around the perimeter of the building. Roof drains also collect and convey stormwater from the covered transfer station into the perimeter drains. The perimeter storm drains are connected to piping that discharge into drainage ditches located adjacent to the fenced perimeter of the transfer station, which ultimately convey stormwater to adjacent canals. Cleanouts are installed along the stormwater piping to remove accumulated debris as necessary.

The stormwater conveyance system reduces the potential of waste coming into contact with stormwater and minimizes leachate generation. Incidental stormwater entering the transfer station is collected in the leachate collection system.

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## Section 6

### Disease and Vector Control

The Dare County Transfer Station provides 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 shall be maintained by implementation of a daily cleaning program, which involves removal of waste, leachate, and ponded water from the facility operating areas. The complete removal of waste at the end of each operating day will deter vectors from entering the transfer station. The transfer station shall utilize wash water to keep the tipping floor and loading bay areas clean and free from rodents, flies and other vectors. Ponded water shall be prevented to control mosquito breeding. The County will contract with a licensed exterminator as necessary to aid in the control of vectors. Additional operating procedures that minimize vectors include:

- Full or partially loaded transfer trailers are covered if left on site overnight;
- Transfer trailers are not parked overnight outside of the fenced perimeter;
- Full transfer trailers are not left on site for more than 48 hours; and
- Waste is not stored on the tipping floor after operating hours.

Six industrial ventilation fans are installed at the transfer station to reduce the nuisance odors and help mitigate vector problems.

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## Section 7

# Sign and Safety Requirements

### 7.1 Sign

Dare County has posted various signs at the facility entrance, scale house, and transfer station to inform and direct waste haulers. A general summary of the posted signs and their locations is provided below.

#### **Facility Entrance**

- No fire arms, drugs, or alcoholic beverages are permitted on the property
- Transfer station and C&D landfill permit numbers and hours of operation
- No hazardous waste or liquid waste accepted
- After hours emergency contact numbers

#### **Scale House**

- Transfer station and C&D landfill tipping fees
- Warning for all waste haulers to stop at the scale house
- Speed limit

#### **Transfer Station**

- Empty trailer parking
- No hazardous waste accepted (English and Spanish)
- Transfer station traffic direction
- Warning to not enter the transfer station until directed by the attendant
- Non-potable water
- Fire extinguisher
- Warning of open pit hazard
- Authorized personnel only

### 7.2 Open Burning of Waste

Open burning of waste is prohibited at the Dare County Transfer Station.

## 7.3 Fire Control

The transfer station is equipped with fire suppression equipment to control accidental fires. The building is equipped with 5 hose bibs for water supply access and 4 fire extinguishers. Four of the hose bibs are located at each corner of the building and one is located on the center of the north wall. Three of the fire extinguishers are located on the tipping floor and one is located in the office. In addition, each piece of equipment used at the transfer station is equipped with a fire extinguisher. Fire extinguishers are inspected monthly by Dare County personnel and yearly by a private company. Inspection dates are noted on each fire extinguisher.

By keeping the transfer station clean and providing visual inspections of all incoming loads, the potential for fires will be minimized. Burning loads will be extinguished before dumping, if possible. If burning materials are unloaded at the facility, the waste will be segregated from other incoming waste. In the event of a fire, the local fire department will be notified immediately by dialing 911. Firefighting services will be provided by the local Manns Harbor Volunteer Fire Department and by the Roanoke Island Fire Department. A mutual aid agreement is in place with other fire departments should the County require additional assistance.

Fires that occur at the Dare County Transfer Station require verbal notice to the NCDEQ Solid Waste Section within 24 hours and written notification shall be submitted within 15 days. Verbal and written notification shall be submitted to the Washington Regional Office:

North Carolina Department of Environmental Quality  
Washington Regional Office  
Solid Waste Section  
943 Washington Square Mall  
Washington, North Carolina 27889  
(252) 946-6481

## 7.4 Inclement Weather

Inclement weather will be considered on a case by case basis and if operations cannot be performed as required to safely transfer waste material, the facility will be closed. An emergency generator is located adjacent to the transfer station and is used during power outages.

## 7.5 Equipment Failure

Routine maintenance is performed on all equipment to minimize downtime. In the event of equipment failure, back-up equipment may be obtained from other facilities owned by the County or from a local rental company.

## Section 8

# Access and Security Requirements

### 8.1 Transfer Station Access and Security

The transfer station is secured by means of access gates and fences to prevent unauthorized entry. All vehicles delivering waste to the transfer station are required to enter and exit through access gates. In addition, an access gate is located near the scale house at the entrance to the property. The access gates are locked during non-business hours. Unauthorized vehicle and pedestrian access to the facility is prevented around the remaining portion of the transfer station building by a six-foot-high, barbed wire, chain link fence. Truck drivers picking-up transfer trailers are the only authorized personnel to be on the property during non-business hours.

### 8.2 Attendant

The Dare County Transfer Station has a full-time scale operator located in the scale house during operating hours. In addition, a transfer station attendant will be at the facility at all times during operating hours. Both the scale operator and transfer station attendant are responsible for verifying that all vehicles comply with the permitted operational requirements.

### 8.3 Access Road

The access road for the Dare County Transfer Station is constructed of asphalt and is maintained in good condition. Potholes and debris on the road shall receive immediate attention in order to avoid damage to vehicles.

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## Section 9

# Record Keeping Requirements

### 9.1 Record Requirements

The county shall record and retain at the facility or alternative location near the facility the following information as it becomes available:

- Records of random waste inspections, certifications of training, and training procedures;
- Amounts by weight of solid waste received at the transfer station, including county of generation;
- Wastewater disposal reports;
- Methane monitoring reports; and
- All audit records, compliance records and inspection reports.

### 9.2 Operating Requirements

The County shall maintain the following information on site at all times:

- A copy of the approved operation plan;
- A copy of the current Permit to Operate; and
- Facility Plan Drawing.

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# **Appendix A**

STATE OF NORTH CAROLINA  
DARE COUNTY  
SEP 21 '87  
Real Estate  
EXCISE TAX  
500.00

BK 53020783  
FILED  
'87 SEP 21 PM 4 48  
DORRIS A. FRY  
REGISTER OF DEEDS  
DARE COUNTY, N.C.

APPROVED

DARE COUNTY TAX COLLECTOR

NO. 5057-87

Transfer Tax \$5,000.00  
Excise Tax \$500.00

Tax Lot No. DARE COUNTY  
Verified by COUNTY  
by 5057-87  
Parcel Identifier No.  
County on the 19 day of

Mail after recording to GRANTEE c/o Dwight H. Wheelers, Attorney at Law, P. O. Box 500, Manteo, NC 27954.

This instrument was prepared by Ralph S. Wheatly, Regional Counsel, The Prudential Insurance Co. of America, Suite 300, 855 Ridge Lake Blvd., Memphis, TN 38119.

NORTH CAROLINA SPECIAL WARRANTY DEED

THIS DEED made this 15th day of September, 1987, by and between

GRANTOR  
THE PRUDENTIAL INSURANCE COMPANY OF AMERICA  
Suite 300, 855 Ridge Lake Boulevard  
Memphis, Tennessee 38119

GRANTEE  
COUNTY OF DARE, a body politic and corporate  
under the laws of the state of North Carolina  
P. O. Box 1000  
Manteo, North Carolina 27954

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of Croatan, Dare County, North Carolina and more particularly described as follows:

SEE EXHIBIT "A" ANNEXED HERETO AND BY REFERENCE INCORPORATE HEREIN WHICH EXHIBIT IS SIGNED AT THE BOTTOM FOR IDENTIFICATION BY ABNER M. BECK, VICE PRESIDENT OF GRANTOR.

The property hereinabove described was acquired by Grantor by instrument recorded in \_\_\_\_\_

A map showing the above described property is recorded in Plat Book \_\_\_\_\_ page \_\_\_\_\_

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor has done nothing to impair such title as Grantor received, and Grantor will warrant and defend the title against the lawful claims of all persons claiming by, under or through Grantor, except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

All matters of public record without reimposing the same.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA  
(Corporate Name)

By: Abner M. Beck  
Abner M. Beck  
Vice President

Attest: Ralph S. Wheatly  
Ralph S. Wheatly  
Assistant Secretary (Corporate Seal)

USE BLACK INK ONLY

SEAL - STAMP

USE BLACK INK ONLY

NORTH CAROLINA, \_\_\_\_\_ County.  
I, a Notary Public of the County and State aforesaid, certify that \_\_\_\_\_ Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument, Witness my hand and official stamp or seal, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
My commission expires: \_\_\_\_\_ Notary Public



TENNESSEE, Shelby \_\_\_\_\_ County.  
I, a Notary Public of the County and State aforesaid, certify that Ralph S. Wheatly personally came before me this day and acknowledged that he is Assistant Secretary of THE PRUDENTIAL INSURANCE COMPANY OF AMERICA, a New Jersey corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed by his Vice President, sealed with its corporate seal and attested by Ralph S. Wheatly as its Assistant Secretary.  
Witness my hand and official stamp or seal, this 15th day of September, 1987.  
My commission expires: July 3, 1990 Maudlyn L. Melby Notary Public

The foregoing Certificate(s) of Marilyn R. McVay a Notary Public of Shelby Co. Tenn

is/are certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the next page hereof.

By: Dorrie A. Fry REGISTER OF DEEDS FOR Dare COUNTY  
Mary B. Scarborough Deputy/Assistant-Register of Deeds.

EXHIBIT 5  
BK 530

All that certain piece or parcel of land lying and being in Croatan Township, Dare County, North Carolina, and described as follows:

BEGINNING at a stake or other marker lying in and on the West line of the right of way of U. S. Highway 264 and at a point thereon which lies North 34 deg. 40 min. 27 sec. East 102.95 feet from another concrete marker, said point of beginning also lying and being North 24 deg. 45 min. 56 sec. East 577.39 feet from a concrete marker identified as "Bridge 1974" (said marker lying at the following grid coordinates based on the North Carolina Grid System: North 776227.158, East 2944678.124), said point of beginning also lying South 76 deg. 38 min. 10 sec. West 60.55 feet from an existing concrete monument which itself lies on the same course and 44.14 feet from an existing P. K. nail in the centerline of the pavement of U. S. Highway 264 which said nail lies North 32 deg. 4 min. 29 sec. East 647.29 feet from the concrete marker identified as "Bridge 1974", proceeding thence from the point of beginning South 76 deg. 38 min. 10 sec. West along the South line of lands belonging to the United States Department of the Interior (U. S. Fish and Wildlife Service) 4,686.48 feet to an existing concrete monument, then cornering and running North 9 deg. 0 min. 23 sec. West 23.87 feet to a concrete monument, thence South 81 deg. 24 min. 20 sec. West 975.66 feet to a concrete monument, thence South 8 deg. 38 min. 54 sec. East 1,731.72 feet to a concrete monument, thence South 39 deg. 44 min. 25 sec. East 8,291.60 feet to a concrete monument, thence North 50 deg. 10 min. 9 sec. East 3,468.62 feet to a concrete monument which concrete monument lies on the same course 40 feet to another existing concrete monument and 30 feet beyond that to an existing P. K. nail on the centerline of the pavement of U. S. Highway 264, thence from the concrete monument on the edge of the right of way in a general Northwesterly, Northerly and Northeasterly direction following the curvature of the right of way U. S. Highway 264 to the point or place of beginning.

The aforesaid tract is identified on a plat prepared by Southern Surveying recorded in Plat Cabinet C at Slide 32B in the office of the Register of Deeds of Dare County, North Carolina.

All courses in this description are coordinated with the North Carolina Grid System as further shown on the aforesaid plat.

There is also conveyed hereby a right of access over and upon portions of the road shown on the aforesaid plat as "Bear Road".

Portions of the described properties are subject to existing land leases which terminate no later than December 31, 1987.

MARKED FOR IDENTIFICATION THIS 15th DAY OF September, 1987.

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA  
By: Abner M. Beck  
Abner M. Beck, Vice President



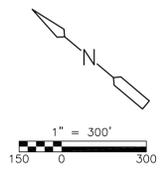
# **Appendix B**

PROPERTY OF  
US DEPT OF THE INTERIOR  
US FISH AND WILDLIFE SERVICE  
ATTN: MIKE BRYANT  
PO BOX 1969  
MANTEO, NC 27954

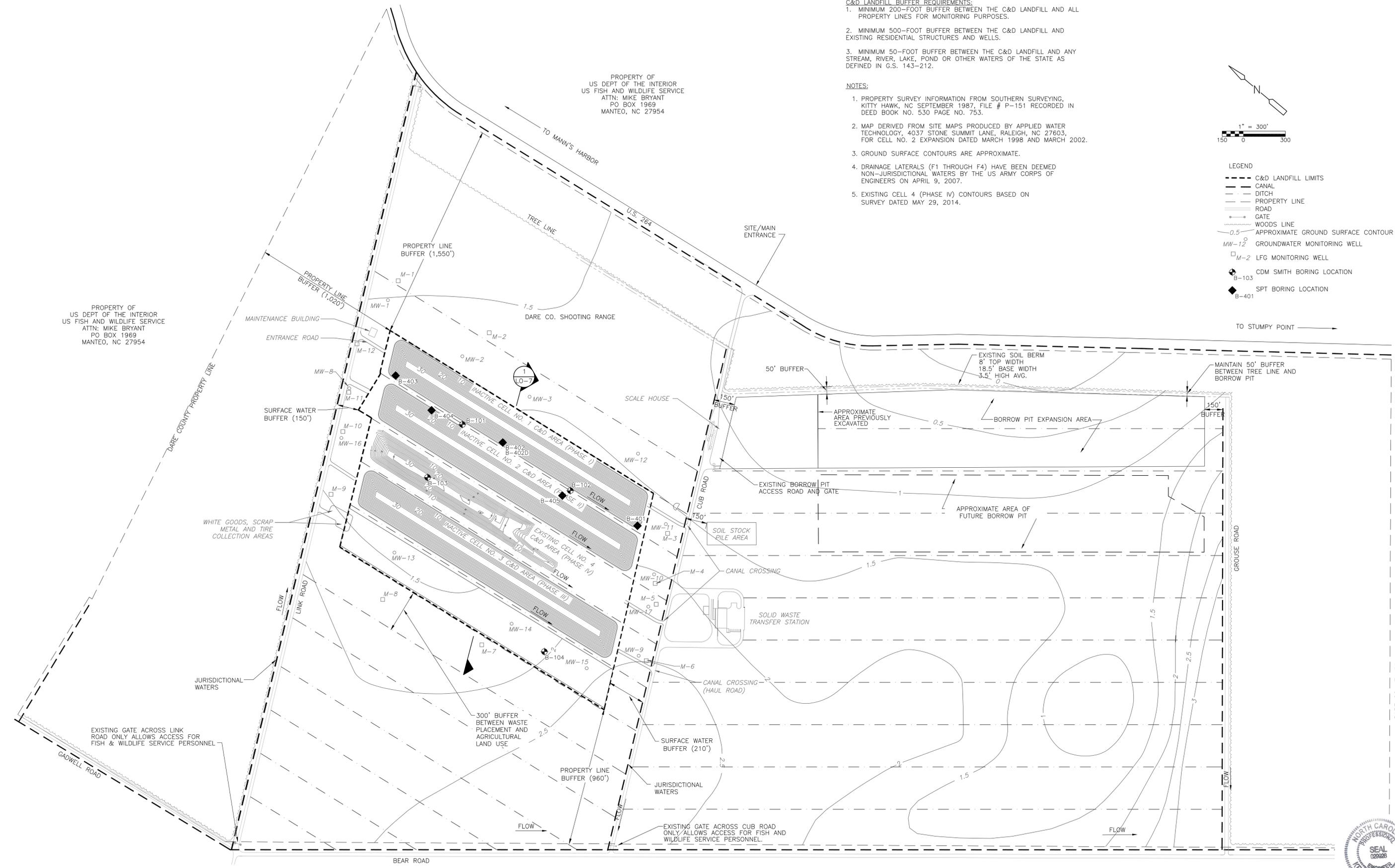
PROPERTY OF  
US DEPT OF THE INTERIOR  
US FISH AND WILDLIFE SERVICE  
ATTN: MIKE BRYANT  
PO BOX 1969  
MANTEO, NC 27954

- C&D LANDFILL BUFFER REQUIREMENTS:**
1. MINIMUM 200-FOOT BUFFER BETWEEN THE C&D LANDFILL AND ALL PROPERTY LINES FOR MONITORING PURPOSES.
  2. MINIMUM 500-FOOT BUFFER BETWEEN THE C&D LANDFILL AND EXISTING RESIDENTIAL STRUCTURES AND WELLS.
  3. MINIMUM 50-FOOT BUFFER BETWEEN THE C&D LANDFILL AND ANY STREAM, RIVER, LAKE, POND OR OTHER WATERS OF THE STATE AS DEFINED IN G.S. 143-212.

- NOTES:**
1. PROPERTY SURVEY INFORMATION FROM SOUTHERN SURVEYING, KITTY HAWK, NC SEPTEMBER 1987, FILE # P-151 RECORDED IN DEED BOOK NO. 530 PAGE NO. 753.
  2. MAP DERIVED FROM SITE MAPS PRODUCED BY APPLIED WATER TECHNOLOGY, 4037 STONE SUMMIT LANE, RALEIGH, NC 27603, FOR CELL NO. 2 EXPANSION DATED MARCH 1998 AND MARCH 2002.
  3. GROUND SURFACE CONTOURS ARE APPROXIMATE.
  4. DRAINAGE LATERALS (F1 THROUGH F4) HAVE BEEN DEEMED NON-JURISDICTIONAL WATERS BY THE US ARMY CORPS OF ENGINEERS ON APRIL 9, 2007.
  5. EXISTING CELL 4 (PHASE IV) CONTOURS BASED ON SURVEY DATED MAY 29, 2014.



- LEGEND**
- C&D LANDFILL LIMITS
  - CANAL
  - DITCH
  - PROPERTY LINE
  - ROAD
  - GATE
  - WOODS LINE
  - 0.5 APPROXIMATE GROUND SURFACE CONTOUR
  - MW-12 GROUNDWATER MONITORING WELL
  - M-2 LFG MONITORING WELL
  - ⊕ B-103 CDM SMITH BORING LOCATION
  - ◆ B-401 SPT BORING LOCATION



| REV. NO. | DATE | DRWN | CHKD | REMARKS |
|----------|------|------|------|---------|
|          |      |      |      |         |
|          |      |      |      |         |
|          |      |      |      |         |

DESIGNED BY: K. YANG  
DRAWN BY: M. BROKAW  
SHEET CHK'D BY: M. COLONE  
CROSS CHK'D BY: C. GABEL  
APPROVED BY: K. YANG  
DATE: APRIL 2015

Camp Dresser McKee & Smith  
5400 Glenwood Avenue, Suite 400  
Raleigh, NC 27612 | Tel: (919) 325-3500  
NC License No. F-1255

DARE COUNTY  
NORTH CAROLINA  
**CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL  
FACILITY PLAN SUBSTANTIAL AMENDMENT**

**EXISTING CONDITIONS**

PROJECT NO. 17952-94310  
FILE NAME: SD-1  
SHEET NO.  
**SD-1**



**CDM  
Smith**

[cdmsmith.com](http://cdmsmith.com)