



North Carolina Department of Environmental Quality  
Division of Waste Management

Roy Cooper  
Governor

Michael S. Regan  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**SOLID WASTE MANAGEMENT FACILITY**

**DARE COUNTY**

is hereby issued a

**PERMIT APPROVAL TO CONSTRUCT**

Not Applicable

**PERMIT APPROVAL TO OPERATE**

2803-CDLF-1995, Dare County C&D Landfill - Phase V and Cells 1, 2, 3, and 4  
2805T-TRANSFER-, Dare County Transfer Station

**PERMIT FOR CLOSURE**

Not Applicable

located west of US Highway 264 approximately 2.4 miles south of the intersection of US Highway 64/264 in Dare County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deeds recorded for this property listed in Attachment 1, Part I of this permit.

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Edward F. Mussler, III, P.E.  
Permitting Branch Supervisor  
Solid Waste Section

**ATTACHMENT 1  
GENERAL PERMIT CONDITIONS INFORMATION**

**PERMIT APPROVAL TO OPERATE DATA TABLE**

Permit Number	Status	Issuance Date	Expiration Date
2803-CDLF-1995	Active	February 20, 2017	Life of Site
2805T-TRANSFER-	Active	February 20, 2017	Life of Site

DIN = Document Identification Number

**PART I: GENERAL FACILITY**

1. This permit is issued by the North Carolina Department of Environmental Quality, Division of Waste Management (Division), Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule (Rule) 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit Approval to Construct and a Permit Approval to Operate. The Permit Approval to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit Approval to Operate must be implemented in accordance with Attachment 3 of this permit.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. The permit for the Dare County Construction and Demolition Landfill (C&DLF) unit has been registered in the Dare County Register of Deeds; October 21, 1994, Deed Book 959, Pages 0214-0222 (DIN 16662).
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a sanitary landfill and a reference by book and page to the recordation of the permit.
5. By beginning construction or receiving waste at the facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (N.C.G.S. 130A-290, et seq.), the conditions contained in this permit, and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition. Failure to comply may result in compliance action or permit revocation.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in the “List of Documents for the

Approved Plan” which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.

8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules.
9. In accordance with N.C.G.S. 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or a change in the operator of the facility or parent company of the operator.
10. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee’s responsibilities for compliance with any other local, state or federal rule, regulation or statute.

#### **PROPERTIES APPROVED FOR THE SOLID WASTE MANAGEMENT FACILITY**

Dare County, N.C. Register of Deeds				
Book	Page	Grantee	Grantor	Acres
530	733 - 735	Dare County, North Carolina	The Prudential Insurance Company of America	836.2
Plat Cabinet C	Slide 32B	Survey		
Total Site Acreage: 836.2 acres				

Notes:

1. The waste footprint of the C&DLF unit encompasses approximately 64.9 acres of the 836.2-acre landfill property.
2. The transfer station resides on approximately 5 acres of the 836.2-acre landfill property.

#### **PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable.*

#### **PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

DARE COUNTY C&DLF, 2803-CDLF-1997

#### **Permitting History**

Permit Type	Date Issued	DIN
Original Issue Permit to Construct (PTC) and Permit to Operate (PTO) – Cells 1 & 2	September 7, 1994	24528

Permit Amendment (PTC) & (PTO) - Cell 1 (revised) & Cell 2	March 14, 1995	24529
Permit Amendment (PTO) – Cell 1	November 15, 1995	24530
Permit Modification (PTO) – Cell 2a	December 28, 1998	24531
Permit Amendment (PTO) – Cells 1 and 2	March 14, 2000	24532
Permit Amendment (PTC) – Cell 1	October 30, 2001	24533
Permit Modification (PTC) – Cells 1 and 2	June 24, 2002	24534
Permit Modification (PTO) – Cell 2	December 20, 2002	24535
Permit Modification (PTO) – Cells 1 and 2	June 27, 2003	24536
Permit Amendment (PTO) – Cells 1 and 2	May 5, 2005	24537
Permit Amendment (PTC) – Cell 3a	July 22, 2005	24538
Permit Modification (PTO) – Cell 3a	March 17, 2006	24539
Permit Modification (PTO) – Cell 3 Expansion	December 30, 2006	628
Permit Amendment (PTC) – Cell 4	March 10, 2010	9251
Permit Modification (PTO) – Cell 4	April 13, 2011	13484
Permit Substantial Amendment by Increasing Gross Capacity and Revising Facility Plan (PTC) – Phase V	August 28, 2015	24897
Life of Site – PTO – Phases V & Continued Operating Cells 1 through 4	February 20, 2017	27329

1. Dare County (the County) was approved to construct and operate the Dare County Construction and Demotion Debris Landfill (C&DLF) on September 7, 1994 under the Solid Waste Permit Number 2803-CDLF-1995. The C&DLF is incrementally developed according to the approved Facility Plan by five (5) Cells/Phases with a gross capacity of 1,571,800 cubic yards (CY). Each of the five cells/phases that are standalone and divided by a drainage lateral encompasses an 11.3-acre waste footprint. The total of the waste footprint is 56.5 acres.
2. On August 02, 2004 Dare County Board of Commissioners approved the expansion of the C&DLF by adopting a resolution (DIN 24526), which approved the increase of the C&DLF's gross capacity to 3,044,300 CY by allowing for an additional ten (10)-foot vertical expansion of each of the 5 Cells, up to 40 feet above mean sea level with the maximum 3 (horizontal) to 1 (vertical) side slopes. The approved vertical expansions would allow disposal of permitted wastes into the spaces (lateral drainages) located between the original approved five (5) landfill cells and increasing the waste boundary to approximately 64.9 acres.
3. In compliance with Rule 15A NCAC 13B .0537(c)(11) effective January 2007, the County conducted the public meeting on July 21, 2008 to officially adopt the Resolution.
4. The County submitted a permit application for a substantial amendment in March 2015 and requested from the NC Solid Waste Section an approval of the revised Facility Plan for the C&DLF consisting of nine (9)-phased developments encompassing the 64.9-acre waste footprint with new gross capacity of 3,044,300 CY.

5. Pursuant to N.C.G.S. 130A-294(a2), the Dare County C&DLF facility is issued a life-of-site permit.

#### List of Documents for the Approved Plan

DIN	DOCUMENT DESCRIPTION
628	<i>Facility Permit No 28-03, Part 2 – Permit to Operate.</i> December 18, 2006. Permit Modification: Cell 3 Expansion listed previous approved documents.
13454	<i>Dare County Construction and Demolition Debris Landfill Cell No. 4 Permit To Construct Application.</i> Prepared by Camp Dresser & McKee. Raleigh, NC. January 27, 2009; revised through March, 2010 (Doc ID 13476), which included the revised Operations Plan dated March 2011.
9831	<i>Dare County Construction and Demolition Debris Landfill Phase No. 4 Expansion, Erosion and Sediment Control Permit Application.</i> Prepared by: Camp Dresser & McKee (CDM). Raleigh, NC. December, 2009. Approved by: Division of Land Resources, Land Quality Section. February 18, 2010.
10403	<i>Dare County Construction and Demolition Debris Landfill Phase No. 4 Expansion Well Abandonment Records.</i> Submitted by: CDM. Raleigh, NC and prepared by Froehling & Robertson, Inc. April 2010.
12978	<i>Dare County Construction and Demolition Debris Landfill Phase No. 4 Expansion Groundwater and Landfill Gas Monitoring Well Installation and Initial Sampling Report.</i> Prepared by: CDM. Raleigh, NC. August 30, 2010.
13454	<i>Dare County Construction and Demolition Debris Landfill Cell No. 4 Permit To Construct Application.</i> Prepared by CDM. Raleigh, NC. January 27, 2009; revised through March, 2010 (DIN 13476), which included the revised Operations Plan dated March 2011.
13481	<i>Dare County Construction and Demolition Debris Landfill Cell No. 4 Construction Quality Assurance Report.</i> Prepared by CDM. Raleigh, NC. February 2011 and revised through March 2011.
24526	<i>Dare County C&amp;D Landfill Substantial Amendment and Phase V Permit To Construction Application.</i> Prepared by: CDM Smith. Raleigh, NC. March 13, 2015 and revised through May 19, 2015, including the Design Hydrogeological Report for Phase V, site-wide water quality monitoring plan and landfill gas plan were approved on May 21, 2015 (DIN 24494, 24492, & 24493, respectively).
27324	<i>Dare County C&amp;D Landfill, Phase V Expansion Construction Quality Assurance Report.</i> Prepared by: CDM Smith. Raleigh, NC. December 20, 2016 and revised through January 31, 2017.

#### Part IV INDUSTRIAL LANDFILL UNIT(S)

*Not Applicable.*

#### Part V LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

*Not Applicable.*

#### Part VI TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

DARE COUNTY TRANSFER STATION, 2805T-TRANSFER-

**Permitting History**

Permit Type	Date Issued	DIN
Permit to Construct and Operate	December 16, 2003	-
PTO Amendment	December 8, 2006	-
PTO Amendment	February 16, 2012	16096
Permit to Operate – Life of Site	February 20, 2017	27329

**List of Documents for the Approved Plan**

DIN	Document Description
-	<i>Transfer Station Application.</i> Included site plans, architectural plans and structural plans, engineering report, and draft operational plan. October 8, 2003. Received October 14, 2003.
-	Letter from Raymond Sturza. Addressed zoning aspects of the proposed transfer station. December 11, 2003.
-	Letter from NC DENR Division of Land Quality. Addressing approval of the proposed erosion and sedimentation control plan. October 8, 2003.
-	Permit No. 54-03 from the Coastal Resources Commission addressing NCGS 113A-118.
-	Letter from Robert Corbin, P.E., Heery International, P.C., Raleigh, NC. Certification letter, US 264 Solid Waste Transfer Station Phase 2. File 0527400-co. October 31, 2006.
-	<i>Operations Plan, County of Dare US264 solid Waste Transfer Station, Dare County, North Carolina.</i> Prepared for County of Dare by Heery International, P.C., Raleigh, NC. October 31, 2006.
16095	<i>Dare County Transfer Station, Permit Amendment Application (Permit No. 28-05T).</i> Prepared and submitted by CDM, Raleigh, NC, on behalf of Dare County. August 18, 2011. Revised through January 3, 2012.
27342	<i>Dare County MSW Transfer Station, Permit Renewal Application (Permit No. 28-05T).</i> Prepared and submitted by CDM Smith, Raleigh, NC, on behalf of Dare County. August 3, 2016.

**Part VII MISCELLANEOUS SOLID WASTE MANAGEMENT UNIT(S)**

*Not Applicable.*

*- End of Section –*

**ATTACHMENT 2**  
**CONDITIONS OF PERMIT APPROVAL TO CONSTRUCT**

**PART I: GENERAL FACILITY CONSTRUCTION CONDITIONS**

*Not Applicable.*

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable.*

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

1. Pursuant to N.C.G.S. 130A-295.8(b)(1), construction of any future phases or cells of the C&DLF unit – Phases VI, VII, VIII, and IX is considered as a “Major Permit Modification” and requires written approval of the Section. Application for Permit Approval to Construct must be prepared in accordance with applicable statutes and rules in effect on that date.
2. At the time of issuance of this permit, no additional construction of the future phases or cells of this C&DLF unit is approved.

**PART IV: INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable.*

**PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)**

*Not Applicable.*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

*Not Applicable.*

**PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**

*Not Applicable.*

*- End of Section -*

**ATTACHMENT 3**  
**CONDITIONS OF PERMIT APPROVAL TO OPERATE**

**PART I: GENERAL FACILITY OPERATION CONDITIONS**

1. Pursuant to N.C.G.S. 130A- 309.09A(g), the permittee must not knowingly dispose of or accepting for transfer for subsequent disposal of municipal solid waste, as defined in N.C.G.S. 130A-290(a)(18a), that is generated within the boundaries of a unit of local government that by ordinance:
  - a. Prohibits generators or collectors of solid waste from disposing of that type or form of solid waste.
  - b. Requires generators or collectors of solid waste to recycle that type or form of solid waste.

2. The facility must not accept the following wastes for disposal of or for transfer for subsequent disposal of at a permitted landfill, at a minimum: hazardous waste, yard trash, white goods, whole tires, recyclable rigid plastic bottles, wooden pallets, motor vehicle oil filters, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in N.C.G.S. 130A-309.10(f).
3. The facility operator must complete an approved operator training course in compliance with N.C.G.S. 130A-309.25.
  - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use.
  - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with N.C.G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
4. The permittee must develop and implement a training and screening program at the facility prepared in accordance with N.C.G.S. 130A-295.6(g) and the approved Operations Plans (DIN 24526 & 27342) for detecting and preventing excluded or unauthorized wastes from being accepted at the facility. At a minimum, the program must include:
  - a. Random inspections of incoming loads or other comparable procedures.
  - b. Records of any inspections.
  - c. Training of personnel to recognize hazardous, liquid, and other excluded waste types.
  - d. Development of a contingency plan to properly manage any identified hazardous, liquid, or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
5. The permittee must maintain records of the following. Scales must be used to weigh the amount of waste received. The daily reports are to be summarized into a monthly report for use in the required annual reports.
  - a. The amount of all accepted solid waste materials as (i) MSW (ii) C&D wastes, (iii) material used as alternate periodic cover, and (iv) recyclable material.
  - b. Daily records of waste received, and origins of the loads.
6. On or before August 1 annually, the permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.



- a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
  - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
    - i) On a monthly basis.
    - ii) By county, city or transfer station of origin.
    - iii) By specific waste type.
    - iv) By disposal location within the facility.
    - v) By diversion to alternative management facilities.
  - c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
  - d. The amount of waste, in tons from scale records, disposed in cells of the Dare County C&DLF unit from November 15, 1995 through the date of the annual volume survey must be included in the report.
  - e. The tons of waste recycled, recovered or diverted from disposal including a description of how and where the material was ultimately managed, as applicable, must be included in the report.
  - f. The completed report must be forwarded to the Regional Environmental Senior Specialist for the facility by the date due on the prescribed annual facility report form.
  - g. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Solid Waste Management Specialist by the date due on the prescribed annual facility report form.
7. Copies of this permit, the approved plans, and all records that are required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours according to rules and the approved plans (DIN 24526 & 27342).
  8. The facility must be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Section to prevent unauthorized entry.
  9. Signs must be posted at the entrance to the facility that state that no hazardous waste or liquid waste can be received at the facility; and provide information on dumping

procedures, the hours of operation, the permit number, contact name, telephone number, and other pertinent information. Traffic signs or markers must be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

10. Interior roadway must be of all-weather construction and maintained in good condition.
11. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act, N.C.G.S. 113A-50 et seq., and rules promulgated under 15A NCAC 4. All required sedimentation and erosion control measures for construction, operations, or practices during the service life of the facility must be installed, maintained, and operable to mitigate excessive on-site erosion, to prevent silt from leaving the area of the landfill unit, and not to cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 or the Clean Water Act, as amended.
12. Open burning of solid waste is prohibited. Fires must be reported to the Regional Solid Waste Management Specialist with 24 hours of the occurrence, followed by a written notification within 15 calendar days of the occurrence.
13. Financial assurance as required by N.C.G.S. 130A-295.2 must be continuously maintained for the duration of the service life of the facility and updated and submitted annually to the Section by the anniversary date of the issuance of this permit.

## **PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable.*

## **PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

DARE COUNTY C&DLF, 2803-CDLF-1997

1. This permit approval to operate is the life-of-site permit, as defined in N.C.G.S. 130A-294(a2), which approves the permittee to operate the new constructed Phases V and continue operating of Cells 1, 2, 3, and 4 of the C&DLF unit as well as the onsite environmental management protection facilities as described in the approved plan (DIN 24526 & 27324). Operation of C&DLF unit must comply with the specific conditions set forth in this permit, the approved Operations Plan (DIN 24526) and the provisions of the Rule 15A NCAC 13B .0542.
2. The C&DLF unit that encompasses 64.9-acre waste footprint and consists of nine (9)-phased developments – Phases I through IX has the approved total gross capacity of 3,044,300 cubic yards (CY) with a four (horizontal) to one (vertical) final side slope and the final grade of the cover system up to 40 feet above mean seal level as shown the drawing Sheet Nos LO-6 & LO-7 (DIN 24526). Total gross capacity is defined as the

volume measured from the bottom of waste through the top of final cover. Operation of any C&D landfill future phases or cells requires written approval of the Section after documentation has been submitted that the area has been constructed in accordance with applicable statutes and rules. The following table lists the dimensions and details for the C&DLF unit, both existing and planned.

C&DLF	Acres	Gross Capacity (CY)	Status
Phase I / Cell 1	11.3	249,800	Constructed and approved for operation in this permit
Phase II / Cell 2	11.3	249,800	
Phase III/ Cell 3	11.3	249,800	
Phase IV/ Cell 4	11.3	118,436	
		131,364	
Phase V	2.1	478,900	Construction and operation of the future phase(s) require approval
Phase VI	2.1	418,750	
Phase VII	2.1	418,750	
Phase VIII	11.3	249,800	
Phase IX	2.1	478,900	
Total	64.9	3,044,300	

Notes:

1. The C&DLF Phases I, II, III, IV, & VIII are standalone units and separated by lateral drainages.
2. The C&DLF Phases V, VI, VII & IX are infilled between the Phases I, II, III, IV, & VIII.
3. The C&DLF unit is permitted to receive and dispose of the following waste types which generated from the boundaries of Dare County, North Carolina which is consistent with the resolution passed by the Dare County Commissioners on August 2, 2004.
  - a. "Construction or demolition debris" as defined in N.C.G.S. 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
  - b. "Inert debris" as defined in N.C.G.S. 130A-290 (a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
  - c. "Land-clearing debris" as defined in N.C.G.S. 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, such as stumps and tree trunks.
  - d. "Asphalt" in accordance with N.C.G.S. 130-294(m).

4. Regulated-asbestos containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with 15A NCAC 13B .0542 (c).
5. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with the approval of the Section, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge must not be applied at greater than agronomic rates nor to a depth greater than six inches according to Rule 15A NCAC 13B .0542(d).
6. Those wastes listed in 15A NCAC 13B .0542 (e) must not be accepted for disposal at the landfill facility including, but not limited to, hazardous waste, municipal solid waste, liquid waste, commercial or industrial wastes, and yard trash.
7. Wooden pallets as defined in N.C.G.S. 130A-290(44a) are not approved for disposal except for those pallets generated in C&D activities.
8. The permittee must properly maintain permanent physical markers that accurately identify the edge of the approved waste footprint for all active, inactive, and closed disposal units at the landfill facility.
9. In accordance with N.C.G.S. 130A-295.6 this landfill may use alternative daily cover (ADC) if an ADC and pertinent applications have been previously approved at another sanitary landfill in North Carolina. The Section maintains a list of approved ADC and its appropriate use, which may be referred to, but is not required to be, in determining ADC types and uses.
10. The use of ADC that has not been approved for the facility or approved under N.C.G.S. 130A-295.6 must be demonstrated and approved prior to implementation by the Section. Requests for ADC approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover, developed according to Section guidelines. Plans that are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1.
11. The permittee must maintain records for all solid waste materials accepted and used as ADC. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Section upon request. The application of ADC materials in excess of normal application of daily cover of the material shall constitute disposal.

12. Closure and post-closure activities for any landfill unit at this facility must be conducted in accordance with the approved Closure and Post-Closure Plans (DIN 24526) and applicable Rule 15A NCAC 13B .0543.
13. Modification of the approved closure plan to construct an alternative cap system is allowed by Rule 15A NCAC 13B .0543; however, the modified closure plan must be submitted for approval at least ninety (90) days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the landfill unit in accordance with all rules in effect at that time. At a minimum, the plan must address the following:
  - a. Design of a final cover system in accordance with Rule 15A NCAC 13B .0543 or the solid waste management rules in effect at the time of closure.
  - b. Construction and maintenance/operation of the final cover system and erosion control structures.
  - c. Surface water, ground water, and explosive gas monitoring.

#### **Environmental Media Monitoring and Reporting Requirements**

14. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans (DIN 24492 & 24493).
15. The permittee must implement the following permit conditions:
  - a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any groundwater or landfill gas monitoring well.
  - b. Each groundwater and landfill gas monitoring well must be surveyed in accordance with Rule 15A NCAC 13B .0544(b)(1)(F).
  - c. Each groundwater and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
  - d. The permittee must maintain the following documentations in the facility operating record in accordance with Rule 15A NCAC 13B .0542(n):
    - i) The report for each monitoring event of groundwater, surface water, and landfill gas and pertinent analytical data.
    - ii) Documents of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well.

- e. A readily accessible, unobstructed path must be maintained so that groundwater and landfill gas monitoring wells, and surface water sampling locations are accessible using four-wheel drive vehicles.

**Water Quality Monitoring and Reporting Conditions**

- 16. Groundwater and surface water monitoring at this landfill facility must be conducted in compliance with Rules 15A NCAC 13B .0544 through 0545, & .0602, and the approved monitoring plan (DIN 24492). Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.
- 17. Groundwater quality is subject to 15A NCAC 2L – Groundwater Classifications Standards and the Groundwater Protection Standards (GPS) established under Rule 15A NCAC 13B .0545(b). Surface water is subject to 15A NCAC 2B – Surface Water and Wetlands Standards.
- 18. Unless otherwise specified by the Section, surface water locations and groundwater monitoring wells must be sampled at least semi-annually in accordance with applicable Rules, the approved monitoring plan (DIN 24492), and the current policies and guidelines of the Section in effect at the time of sampling.
- 19. Monitoring reports of the analytical results for groundwater and surface water sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic format (pdf) and in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain:
  - a. A potentiometric surface map for the current sampling event.
  - b. Analytical laboratory reports and summary tables.
  - c. A completed Solid Waste Environmental Monitoring Data Form.
  - d. Laboratory data submitted in accordance with the EDD Template.
- 20. The permittee must implement the following permit conditions:
  - a. For the C&DLF Unit. A baseline sampling event for background water quality shall be completely performed from each new installed groundwater monitoring well in accordance with 15A NCAC 13B. 0544(b)(1)(D).
  - b. The report including analytical data must meet the requirements stated in the Permit Condition No. 19 of Part I, Attachment 3 and be submitted to the Section for review.

### **Landfill Gas Monitoring, Management, and Reporting Conditions**

21. A landfill gas monitoring event must include monitoring for all explosive gases including monitoring hydrogen sulfide and must be conducted at the facility including interior monitoring of on-site buildings in accordance with the approved landfill gas monitoring plan (DIN 24493) and Rule 15A NCAC 13B .0544(d). Any proposed modification to an approved plan must be submitted to the Section Hydrogeologist and approved prior to implementation.
22. The permittee must sample landfill gas quarterly unless otherwise required for corrective action or specified by the Section.
23. The permittee is responsible to employ properly trained personnel to conduct gas monitoring.
24. Landfill gas monitoring reports must be placed to the facility's operating record, according to Rule 15A NCAC 13B .0542(n), within 7 days of the monitoring event, and must include a description of the monitoring method used, the sampling results of each well and onsite buildings in percent of the lower explosive limit (LEL), date of monitoring, weather conditions, calibration report, and signature of the sampling personnel.
25. If landfill gas monitoring reveals detections of methane greater than 25 percent of the LEL in onsite buildings, or detections of LEL at the compliance boundary, the permittee must comply with the requirements of Rule 15A NCAC 13B .0544(d).

### **Part IV INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable.*

### **Part V LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)**

*Not Applicable.*

### **Part VI TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

DARE COUNTY TRANSFER STATION, 2805T-TRANSFER-

1. This permit approval is for the life-of-site as defined in N.C.G.S. 130A-294(a2).
2. The waste collected at the transfer station must be transported to a sanitary landfill that is:
  - a. Permitted to receive the type of waste specified, and
  - b. Whose service area includes the origin of the waste.
3. The facility must not cause nuisance conditions.

- a. The tipping floor and transfer trailer loading area must be maintained in a clean, sanitary condition at all times and must be cleaned at least daily in accordance with the approved Operations Plan (DIN 27342).
  - b. Waste must only be deposited on a “tipping floor” or directly into a transfer container. Waste must not be stored on the “tipping floor” after operating hours.
  - c. Waste may be stored on-site, in vehicles or containers that are constructed, operated, and maintained to be leak resistant in order to prevent the creation a nuisance to the public health from the escape of solid, semi-solid, or liquid waste a maximum of 72 hours when the facility is closed during a weekend or holiday. Storage of the waste must not cause any nuisance, such as odor or attraction of vectors.
  - d. Effective vector control measures must be applied at all times to control any potential vectors including flies, rodents, insects, and other vermin.
  - e. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter.
    - i) Fugitive dust emissions are prohibited.
    - ii) Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.
4. All water that comes in contact with solid waste, including vehicle wash-down water, is leachate and must be captured and properly treated before release to the environment.
- a. The leachate control system, such as floor drains, leachate collection devices, sanitary sewer connections and leachate storage tanks, must be operational during facility operations.
  - b. The tipping floor must drain away from the building entrance and into the leachate collection system.

## **PART V: MISCELLANEOUS WASTE MANAGEMENT AREA SPECIFIC CONDITIONS**

### **General Conditions**

- 1. The landfill facility may accept “recovered material” or “recyclable material” as defined in N.C.G.S. 130A-294(a)(24) and (a)(26), respectively that are generated within the service areas and must be transferred to or disposed of at the facilities described in the approved plans (DIN 24526 & 27342).



2. Recovered or recyclable material must be temporarily stockpiled in the designated area as shown on drawing Sheet No. SD-1 and managed as a valuable commodity in a manner consistent with the desired use or end use. The permittee must operate and manage received recyclables or recovered material at this facility according to the requirements set forth in N.C.G.S. 130A-309.05(c)(1), (2), (3), & (4) and the approved plan (DIN 24526 & 27342).
3. Seventy-five percent (75%), by weight, of the recovered material stored at the facility at the beginning of a calendar year commencing January 1, must be removed from the facility through sale, use, or reuse by December 31 of the same year.
4. Wastes received and product temporarily stored at each unit shall be maintained in reasonably sized piles with adequate fire breaks and lanes which must be coordinated with the Fire Marshall having jurisdiction over the site.
5. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste is deemed to be leachate and shall be contained on-site or properly treated prior to discharge.
6. These areas shall be operated and maintained with sufficient dust control measures
  - a. To minimize airborne emissions and dust from becoming a nuisance or safety hazard.
  - b. To minimize odors or to prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
  - c. To apply effectively vector control measures as necessary to control flies, rodents, insects, and vermin.

#### **Operational Conditions – Scrap Tires**

7. This unit shall be operated and managed in accordance with all applicable statutes and Rule 15A NCAC 13B .1107, and the approved plans. Any revisions to the approved plan shall be approved by the Section, prior to implementation.
8. The unit is permitted to receive tires and scrap tires as defined in N.C.G.S. 130A-309.53(6) & (7) and temporary storing the used tires inside the transfer trailers which then are hauled to the Dare County Public Works Recycling Department followed by transferring to a permitted facility for processing and/or recycling.

#### **Operational Conditions – White Goods and Scrap Metal**

9. The unit is permitted to receive white goods as defined in N.C.G.S. Article 9, Chapter 130A-290(44) and must manage white goods according to all applicable statutes and rules of the State of North Carolina.
10. The unit must temporary store the white goods in the designated area as shown on Sheet No. SD-1. The permittee must manage white goods according to the approved plans. Any revisions to the approved plan shall be approved by the Section, prior to implementation.
11. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

**Operational Conditions – Beneficial Fill**

12. The unit is permitted to receive and temporally stockpile concrete and asphalt separating from the waste stream according to Rule 15A NCAC 13B .0562 and N.C.G.S 130A-309.09A(h) & 1300A-309B(a)(1).
13. The stockpiled material will be crushed as aggregates or fill material for the projects at the landfill facility or public work, as needed.

*- End of Section -*

**ATTACHMENT 4**

**CONDITIONS OF PERMIT FOR CLOSURE**

**PART I: GENERAL FACILITY**

*Not Applicable.*

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable.*

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

*Not Applicable.*

**PART IV: INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable.*

**PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)**

*Not Applicable.*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

*Not Applicable.*

**PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**

*Not Applicable.*

*- End of Permit Conditions -*