



Facility Permit No.: 4303-CDLF-1997
Permit to Construct - Phase IIIA
Harnett County - Anderson Creek Landfill Facilities
Date: June 05, 2015
DIN: 24432
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North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

SOLID WASTE MANAGEMENT FACILITY
Permit Nos. 4303-CDLF-1997

HARNETT COUNTY
is hereby issued a

PERMIT TO CONSTRUCT
4303-CDLF-1997 ANDERSON CREEK CDLF – PHASE IIIA

PERMIT TO OPERATE
NOT APPLICABLE

PERMIT FOR CLOSURE
NOT APPLICABLE

located on the Anderson Creek landfill property, 1086 Poplar Drive accessed via State Route 1146 (Taylor Road), in the Barbecue Township, north of the city of Spring Lake, Harnett 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.

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

**ATTACHMENT 1
 GENERAL PERMIT CONDITIONS/INFORMATION**

PART I: GENERAL FACILITY

Permit Type	Date Issued	DIN
Original issuance: Permit to Construct (PTC) – Phase I	December 11, 1996	20588
Permit to Operate (PTO) – Phase I	April 17, 1997	20589
Permit Amendment: PTC – Phase II	October 18, 2004	20590
PTO – Phase IIA	January 11, 2005	20591
PTO – Phase IIB	January 5, 2007	789
Permit Amendment: PTC – Additional 0.4- acre Lateral Expansion and PTO – Continued operation of existing Phases I & II	March 14, 2014	20702
Permit Modification: PTO – Continued operation of Phases I & II including the additional expansion area 0.5 acres.	November 17, 2014	22285
Permit Amendment: PTC – Phase IIIA	June 05, 2015	24432

PART II: LIST OF DOCUMENTS FOR APPROVED PLAN

The descriptions of previous/historical documents are found in the Permit to Operate issued January 5, 2007, DIN 789.

DOCUMENT ID NO.	DOCUMENT DESCRIPTION
6557	<i>Resolution – Anderson Creek Construction and Demolition Landfill. December 5, 2009.</i>
11314	<i>Leachate Management and Operation Plan for Temporary Pump and Haul Station (s), Anderson Creek Construction and Demolition Landfill. Prepared by Clayton Engineering. June 2010.</i>
18757	<i>Geological and Hydrologic Report for Construction and Demolition Phase III Landfill Expansion, Anderson Creek Landfill –NC SWS Permit # 43-03. Prepared by Clayton, Sr. P.E., Inc. March 20, 2013. Approved on July 31, 2013 (DIN 19384).</i>
19382	<i>Site Suitability Update & Permit to Construct Application – Anderson Creek Landfill Facility Construction and Demolition Landfill – Phase III. Prepared by Clayton, Sr. P.E., Inc. June 26, 2013. The Site Suitability Update including Phase III Design Hydrogeologic Report was approved on August 16, 2013 (DIN 19542). The engineering portions of the application were superseded by the PTC Application (DIN 24434).</i>
19493	<i>Landfill Gas Monitoring Plan, Harnett County Anderson Creek Landfill Facility. Prepared by: Smith Gardner, Inc. August 2013.</i>
19541	<i>Groundwater Monitoring Plan for Construction And Demolition Landfill</i>

	<i>Expansion – (Phase III) Anderson Creek Landfill. Prepared by Clayton, Sr. P.E., Inc. Revised August 2013.</i>
20704	<i>Permit Application, Harnett County Anderson Creek Landfill Facility C&D Landfill & Transfer Station Continued Operations. Prepared by Smith Gardner, Inc. January 15, 2014 and revised through March 07, 2014.</i>
22245	<i>Harnett County Anderson Creek CDLF (Permit NO. 43-03), Phases I & II Extension – Revised Final Cover Grading Plan. Prepared by Smith Gardner, Inc. November 4, 2014</i>
22287	<i>Construction Quality Assurance Report, Harnett County Anderson Creek C&D Landfill – Phases I & II Extension. Prepared by Smith Gardner, Inc. October, 2014 and revised through November 12, 2014.</i>
24434	<i>Permit to Construct Application, Harnett County Anderson Creek Landfill Facility C&D Landfill – Phase IIIA, Harnett County, North Carolina. Prepared by Smith Gardner, Inc. March 16, 2015 and revised through May 22, 2015.</i>

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Harnett County, N.C. Register of Deeds			
Book	Page	Property Owner	Acreage
621	166-167	The County of Harnett	58
879	316-317		77.96
880	48-49		85.3
932	630-631		2
Total Acreage is approximately 223.26 acres			

Deed book references are from Harnett County Register of Deeds website (<http://rod.harnett.org/>)

PART IV: GENERAL PERMIT CONDITIONS

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, 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 to Construct and a Permit to Operate. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit 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 to Construct and Operate (DIN 20720) for the Harnett County Anderson Creek C&DLF has been presented and recorded in the Harnett County Register of Deeds on April 14, 2014, Deed Book 3206, Pages 848-873 (DIN 22292).
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. Construction or 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 (NCGS 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 Attachment 1, Part II, "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. In accordance with NCGS 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 operator of the facility.
9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for sedimentation and erosion control and a General or Individual NPDES Stormwater Discharge Permit, if applicable. Issuance of this permit does not remove the permittee's

responsibilities for compliance with any other local, state or federal rule, regulation or statute.

- End of Section –

ATTACHMENT 2 CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY CONSTRUCTION CONDITIONS

1. This permit approves the new Facility Plan for the C&DLF as shown on drawing Sheet No. 2/Drawing No. S-1 (DIN 24434) that defines the comprehensive development of the C&DLF facility by three phases – Phases I, II, and III encompassing approximately 15-acre waste footprint in accordance with the Rule 15A NCAC 13B .0537 and the resolution passed by the Harnett County Commissioners on November 15, 2010 (DIN 19382).

2. The following table lists the dimensions and details for the C&DLF unit, both existing and planned. The approved gross capacity of 832,404 cubic yards is defined as the volume measured from the bottom of waste through the top of final cover. The maximum approved fill elevation for the C&DLF is shown on drawings Sheet No. 6A / Drawing No. S5A and Sheet No. 11 / Drawing No. EX1 (DIN24434).

C&DLF Phases	Acres	Gross Capacity (cubic yards)	Status
Phases I & II	7.5	477,217	Filled
		47,319	Active (remained capacity)
Phase IIIA	2.1	96,412	To be constructed
Phase IIIB	1.9	129,114	Not developed
Phase IIIC	1.9	32,887	Not developed
Phase IIID	1.6	49,455	Not developed
Total	15	832,404	

3. The permittee shall submit an amendment to this permit pursuant to the Rule 15A NCAC 13B .0533(a)(2) for development of any subsequent phased developments – Phases IIIB, IIIC, and IIID described in the approved Facility Plan and as shown on drawing Sheet No. 5/Drawing No. S4 (DIN 24434). The permit amendment application shall be subject to a permit fee according to NCGS 130A-295.8.

4. This permit does not approve the construct and develop the proposed C&DLF - Phases IIIE and Phases IV described in the Facility Plan and as shown on drawings Sheet No. 2/Drawing No. S1 and Sheet No. 11/Drawing No. EX1 (DIN 24434). Construction and operation of these proposed C&DLF shall satisfy the following Permit Conditions and the

rules and statutes in effect at the time of review of the request and shall be subject to a permit fee according to NCGS 130A-295.8.

- a. Pursuant to the Rule 15A NCAC 13B .0533(a)(3) the permittee shall submit the Section an substantial amendment application to this permit for development the proposed Phase IIIE (a vertical expansion over the approved Phases IIIA through IIID) for review and approval.
 - b. The permittee shall submit the Section the following documents for development the proposed Phase IV (a lateral expansion):
 - i. An substantial amendment application to this permit pursuant to the Rule 15A NCAC 13B .0533(a)(3), and
 - ii. A study of the environmental impacts of the proposed landfill developments according to NCGS 130A-295.6(a); this study must meet all requirements set forth in NCGS 113A-4.
5. The landfill is permitted to dispose C&D solid waste that meets the definition provided in Rule 15A NCAC 13B .0532(8) and to accept for disposal C&D solid waste in accordance with the Rules 15A NCAC 13B .0542 (c), (d), & (e) which is generated in Harnett County, except as otherwise prohibited by North Carolina General Statutes Article 9 of Chapter 130A and rules adopted by the Commission for Health Services.
 6. This facility shall conform to the specific conditions set forth in this permit and the provisions of the Rule 15A NCAC 13B .0534(b)(2).
 7. A copy this permit, the approved plans, and all pertinent records and reports shall be maintained at the facility according to Rule 15A NCAC 13B .0542(n).

FACILITY SPECIFIC CONSTRUCTION CONDITIONS

8. This Permit to Construct is issued for the Harnett County Anderson Creek C&DLF facility, under the criteria set forth in accordance with Rule 15A NCAC 13B .0533(a)(2), for allowing the permittee to construct Phase IIIA area. Construction and development of the Phase IIIA shall be in accordance with the Section approved plan (DIN 24434) and the requirements stipulated in Rules 15A NCAC 13B .0531 through .0547. The construction of Phase IIIA is permitted for approximately:
 - a. 2.1 acres as shown on the drawing Sheet No. 5/Drawing No. S4.
 - b. 96,412 cubic yards of gross capacity (from the bottom of waste through the top of final cover).

9. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit as per Rule 15A NCAC 13B .0534(b)(2)(H). If substantial construction does not begin within 18 months from the issuance date of this permit, then the permittee must obtain a permit modification from the Section prior to construction, comply with the conditions of the approval and submit a permit modification fee. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. A modification to the Permit to Construct for the facility will be required in accordance with rules in effect at the time of review of the request and shall be subject to a permit modification fee according to NCGS 130A-295.8.
10. Modifications or revisions of the approved documents or changes during construction of any landfill phase/cell require approval by the Section, may constitute a permit modification in accordance with Rule 15A NCAC 13B .0533(a)(4), and be subject to a permitting fee in accordance with NCGS 130A-295.8(b).
11. The permittee shall conduct a preconstruction meeting, on site, prior to initiating construction of the approved expansion area at the site and periodic construction progress meetings, as needed in accordance with the Rules 15A NCAC 13B .0541. The permittee shall notify the Section 10 days prior to said meeting.
12. The permittee shall implement the approved construction quality assurance (CQA) in accordance with the Rules 15A NCAC 13B .0540 & .0541 and the approved CQA Manual (DIN 24434).

EROSION AND SEDIMENT CONTROL REQUIREMENTS

13. Prior to construction of Phase IIIA, all sedimentation and erosion control activities shall be constructed and conformed to the requirements in the approved Erosion and Sediment Control Plan, the Sedimentation Pollution Control Law (15A NCAC 04), and/or any required NPDES permits. During the course of construction the approved expansion area, the permittee must implement, but not limited to, the following sedimentation and erosion control activities:
 - a. All sedimentation and erosion control activities shall be conducted by installing and maintaining adequate structures and measures to manage the run-on and run-off generated by the 24-hour, 25-year storm event, to prevent silt from leaving the site, and to prevent excessive on-site erosion.

- b. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&DLF development.
14. Modifications in sedimentation and erosion control activities must be approved by the NC Land Quality Section. Upon receiving the approval letter, the permittee shall notify the Section of any sedimentation and erosion control modifications.

GEOLOGIC, GROUND WATER AND MONITORING REQUIREMENTS

15. Prior to construction of the Phase IIIA, all piezometers, borings, and groundwater and landfill gas monitoring wells within the footprint must be properly abandoned by overdrilling first (exception of non-cased borings) and sealed with grout in accordance with 15A NCAC 2C .0113, entitled “Abandonment of Wells.”
16. In areas where soil is to be undercut, abandoned piezometers, groundwater and landfill gas monitoring wells and borings must not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
17. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Pursuant to Rule 15A NCAC 13B .0540(5) the geologist must submit to the Section Hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
18. A Licensed Geologist must supervise the installation of groundwater monitoring wells and landfill gas monitoring wells. Each groundwater monitoring well and landfill gas well must be surveyed for location and elevation. Each groundwater monitoring well and landfill gas monitoring well must have an identification plate permanently attached to the well in accordance with 15A NCAC 2C .0108(o).
19. Any modification to the approved water quality monitoring, sampling, landfill gas, and analysis plan must be submitted to the Section Hydrogeologist for review and approval.
20. Groundwater and landfill gas monitoring well construction and abandonment must meet the requirements of 15A NCAC 02C.
21. Within 30 days of completed construction of each new groundwater and landfill gas monitoring well, a well construction record, well schematic, boring log, field log and notes, and description of well development activities, certified by a Licensed Geologist,

must be submitted to the Section. Form GW-1(b) must be used for both groundwater and landfill gas wells. The submittal must also include a scaled topographic map, showing the location and identification of new, existing, and abandoned wells and piezometers.

22. Within thirty (30) days of the abandonment of any groundwater monitoring well or landfill gas monitoring well, the well abandonment record and any additional information included in the abandonment record must be certified by a Licensed Geologist, and submitted to the Section. Form GW-30 must be used for both groundwater and landfill gas wells.
23. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

PRE OPERATIONAL CONDITIONS

24. Prior to receiving waste at any unit of this facility, a Permit to Operate must be obtained from the Section in accordance with the Rules 15A NCAC 13B .0201(b) and (d)(2).
25. The following requirements shall be met prior to operating the new Phase IIIA approved to be constructed in this permit:
 - a. Site preparation must meet the requirements stated in Rule 15A NCAC 13B .0540 and the approved plans.
 - b. A written CQA and certification report including as-built drawings in accordance with the Rules 15A NCAC 13B.0541(c) & (d) and the approved CQA Manual (DIN 24434) shall be submitted to the Section for review and approval.
 - c. Prior to waste disposal in any new phase or cell, the permittee shall arrange for a site inspection and/or a pre-operative meeting by a representative(s) or regional environmental specialist of the Section for the purpose of demonstrating that the facility construction is consistent with approved plans and specifications.
 - d. Documentation of financial assurance mechanisms must be submitted to the Section for a review and approval. In accordance with Rule 15A NCAC 13B .0546 & .0547(2) and NCGS 130A 295.2(h1), the financial assurance amount must include costs for conducting closure and post-closure activities at the C&DLF - Phases I, II, & IIIA areas, approximately 9.6 acres, to receive the PTO and costs for potential assessment and corrective action
 - e. Ground water monitoring wells and/or landfill gas probes shall be installed, and surface water sampling locations shall be established. A baseline sampling event

for background water quality shall be completely performed in accordance with Rule 15A NCAC 13B. 0544(b)(1)(D). Well construction and abandonment records and sampling results shall be submitted to the Section Hydrogeologist for review and approval prior to issuing the Permit to Operate for the C&DLF.

- f. The permittee shall completely implement and install site access, security, signs, and safety requirements in accordance with Rule 15A NCAC 13B. 0542(j).
- g. The permittee shall completely construct and install all required and approved measures, devices, and structures to prevent soil erosion, control sedimentation, manage surface water drainage, and to protect surface waterbody in accordance with Rule 15A NCAC 13B. 0542(k) & (l) and the approved plan.
- h. The edge of the waste footprint must be physically identified with permanent physical markers, for both existing units and the new unit.

- End of Section-

ATTACHMENT 3 CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY

1. The Permit to Operate for the exiting C&DLF – Phases I & II shall expire **March 14, 2019**. Pursuant to Rule 15A NCAC 13B .0201(g), no later than **September 15, 2018**, the permittee must submit to the Section a written request for a permit review which must be prepared in accordance with NCGS 130A-295.8 and applicable North Carolina Solid Waste Management Rule and updated pertinent plans including, but not limited to, the facility operation and waste screening plans.
2. This permit approves the continued operation of the C&DLF – Phases I & II which encompasses approximately **7.5**-acre waste footprint, the onsite environmental management protection facilities as described in the approved plan (DIN 20704) and Permit Conditions in Attachment 3 of the Permit to Operate for the C&DLF – Phases I & II dated November 17, 2014 (DIN 22285). Operation of any C&D landfill future phases or cells requires written approval of the Section and must be constructed in accordance with applicable statutes and rules.
3. Modification or revision of the approved documents or changes in the facility operations require approval by the Section prior to implementation, and may constitute a permit modification and be subjected to a permit fee according to NCGS 130A-295.8.

4. At the time of issuance of this permit, no additional facility operation is approved.

- End of Permit Conditions -