



North Carolina Department of Environment and Natural Resources

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

**LARGE TYPE 3 SOLID WASTE COMPOST FACILITY**  
**Permit No. 2514-COMPOST-2014**

Craven Ag Services, Inc.  
is hereby issued a

**PERMIT TO CONSTRUCT AND OPERATE**  
**CRAVEN AG SERVICES COMPOST FACILITY**

Located at 5391 River Road, south of Vanceboro, Craven 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 No. 1 of this permit.

Michael Scott  
Section Chief  
Solid Waste Section

**ATTACHMENT 1**

**PART I: PERMITTING HISTORY**

<b>Permit Issuance</b>	<b>Date</b>	<b>Doc ID</b>
Permit to Construct and Operate	June 17, 2014	21127

- From 2005 to the present, Areas 1 and 2 (southern and western compost areas) of the property were permitted and used for land application of septage and grease, under Permit SLAS-25-09. A portion of the property east of Area 1 (southern area) continues to be permitted for land application.
- In June 2009, the permittee received approval to operate a compost demonstration on this property, under ID number SWCD-25-01. The compost demonstration area consisted of the 3 acre area closest to River Road. The permitted compost area in 2014 consists of 3 areas on the same property.

**PART II: LIST OF DOCUMENTS FOR APPROVED PLAN**

- Craven Ag Services Compost Facility, Application for Compost Facility Permit to Construct and Operate.* Prepared by: Dr. Robert Rubin and MacConnell & Associates. July 2011, revised through May 2014. Doc ID 21126.
- Craven Ag Services Compost Facility, Water Quality Monitoring Plan.* Prepared by CPEC Environmental, Inc. August 2013, revised through March 2014. Doc ID 20787.

**PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

<b>Craven County, N.C. Register of Deeds</b>		
<b>Book</b>	<b>Page</b>	<b>Grantee (sold to)</b>
2199	808	John W. and Jene H. Dunham
2199	803	Survey Plat
Total Site Acreage: 89 acres		

Note - Craven County Parcel ID No. 1-057-026. The actual composting area consists of 3 areas, with a total area of 9.5 acres.

**PART IV: GENERAL PERMIT CONDITIONS**

- This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In

accordance with North Carolina Solid Waste Management 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 shall be implemented in accordance with Attachment 2 of this permit. The Permit to Operate shall expire June 17, 2019. 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. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
4. Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of 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.
5. This permit is issued based on the documents submitted in support of the application for permitting the facility identified in Attachment 1, “List of Documents for Approved Plan,” which constitutes the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
6. 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 must 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.
7. 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 National Pollutant Discharge Elimination System (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

1. Construction of the compost facility must be conducted in accordance with the approved plans listed in Attachment 1, Part II (Document ID 21126 and 20787). Any revision or modification to these plans must be submitted to the Section for review and approval prior to implementation of the change, and may be subject to a permitting fee.
2. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit shall expire. 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. The permittee may re-apply for the Permit to Construct. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.
3. Ash storage areas must be maintained to limit stormwater run-on and run-off, to prevent ponding and to prevent ash from entering surface water.
4. The owner must conduct a preconstruction meeting onsite prior to initiating construction and notify the Section 10 days prior to the meeting.
5. An approval to operate by the Section is required prior to commencement of operations at the compost facility. The following requirements must be met prior to issuance of an approval to operate:
  - a. Construction must be completed in accordance with the approved plan. A construction quality assurance (CQA) report must be submitted for approval, that includes:
    - i) Documentation of construction and testing of the entire boundaries of Areas 1, 2, and 3, including photos. The report must document the field tests, including a sketch of sampling locations and a table listing the soil sampling locations, depths, and texture results, at a frequency of at least 10 per acre at varying depths down to 12 inches. Testing must include at least one lab sample from each of the three areas, as a composite sample of 20 subsamples per acre collected at varying depths down to 12 inches. The report must include notes of failed tests, steps taken to correct the failure, and repeat testing.
    - ii) Documentation of construction of the vegetated buffers around the three areas, including photos. The report must describe construction in

accordance with the Operations Guide (50 foot buffer surrounding the three areas are covered with at least one inch of compost, lightly disked, and planted with grass), and also the notes and tables on Drawing C102 (see Doc ID 21126, pdf pages 36 and 234).

- iii) Certification either by a North Carolina registered professional engineer, or by a North Carolina registered professional geologist, that the facility was constructed in accordance with the approved plan.
  - b. Boundary markers must be installed around the perimeter of the three areas, to mark the required setback to the property line, to the 100 year floodplain, and to the residence across the road (reference Drawing C-102). The distance between markers must be sufficient to allow for line of sight from one marker to the next.
  - c. Groundwater wells must be installed in accordance with the Water Quality Monitoring Plan (Doc ID 20787) and with 15A NCAC 2C. Well installation logs, Form GW-1, must be submitted to the Section. A licensed geologist must be present to supervise the installation of groundwater monitoring wells.
  - d. Each groundwater monitoring well must be surveyed for location and elevation, measured from a permanent USGS Survey benchmark of known elevation. Each groundwater monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
  - e. The initial baseline groundwater and surface water sampling event must be performed.
  - f. The temporary erosion control berms and straw waddles used in construction must be removed.
  - g. If there were any necessary construction changes to the site layout as shown in the approved plan, then one electronic copy (pdf) of the construction record (as-built) drawings must be submitted to the Section.
  - h. A site inspection must be made by a representative of the Section.
6. A representative of the Section shall notify the permittee by letter or e-mail when the pre-operative conditions have been met. The permittee may begin operation of the new facility at that time.

#### **EROSION AND SEDIMENTATION CONTROL REQUIREMENTS**

7. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.

8. Facility construction, operations or practices must not 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 of the Clean Water Act, as amended.
9. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The permittee must notify the Section of any sedimentation and erosion control plan modifications.

*- End of Section -*

### **ATTACHMENT 3 CONDITIONS OF OPERATING PERMIT**

1. The Permit to Operate shall expire June 17, 2019. Pursuant to 15A NCAC 13B .0201(g), no later than February 16, 2019, the permittee must submit a request to the Section for permit review and must update pertinent facility plans.
2. The facility must be adequately secured by means of gates, chains, berms, fences, or other measures approved by the Section to prevent unauthorized entry.
3. A sign must be maintained at the site entrance providing site information including the permit number, prohibited materials, and emergency contact information.
4. A responsible individual trained in facility operations must be onsite during all operating hours of the facility, in accordance with NCGS 130A-309.25.
5. Interior roadways must be of all-weather construction and maintained in good condition.
6. Boundary markers must be maintained around the perimeter of the three areas, to mark the required setbacks to the property line, to the 100 year floodplain, and to the residence across the road (reference Drawing C-102). The distance between markers must be sufficient to allow for line of sight from one marker to the next.
7. A 50 foot buffer must be maintained between the compost operation and wetlands.
8. Only materials specifically listed in the permit application may be managed at this facility (see Doc ID 21126, pdf pages 13 and 14). A permit modification is required for a request to receive additional feedstocks. Septage that is from commercial or industrial waste sources must be approved by the Section.
9. The total capacity of the site is 50,000 tons of materials received and composted per year. This tonnage limit includes the summation of all feedstocks, amendments, and recycled material utilized in the compost process. A permit modification is required for a request to increase capacity.

10. An appropriate Division of Water Resources (DWR) or Division of Energy, Mineral and Land Resources (DEMLR) permit for managing any stormwater and/or wastewater at the facility must be maintained as required. Any leachate generated at the facility and any runoff from the facility must be managed in such a manner that ground or surface water quality will not be adversely affected. The facility must be maintained to prevent the accumulation of stormwater and leachate on composting areas, storage areas, and roads.
11. Feedstocks must not be received that are in an anaerobic state.
12. Thermometers used for documenting composting temperatures must be calibrated annually. Documentation of calibration must be kept in the facility records.
13. In the event of a mechanical failure, the facility must immediately use its best effort to utilize substitute equipment for completion of the composting operation.
14. The odor management procedures must be followed to minimize odors at the facility boundary. Upon receipt of an odor complaint, the facility operator must investigate and take action as necessary to minimize the cause of the complaint. A copy of all written complaints regarding this facility must be maintained for the duration of the permit including the operator's actions taken to resolve the complaints.
15. The facility must be operated in a manner that reduces the potential for vector attraction.
16. The compost operation and the compost pad must be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard. Facility operation must meet Division of Air Quality Rules 15 NCAC 2D. Fugitive dust emissions from the facility that contribute to substantive complaints may subject the facility to the Division of Air Quality requirements as listed in 15A NCAC 2D .0540.
17. Trash and unacceptable wastes received at the site must be stored in containers and promptly removed from the site for proper disposal.
18. All compost produced at the facility must meet the requirements of Rule .1407 of the Solid Waste Compost Rules and the permit application.
19. Windrow dimensions for active composting must be limited to a maximum of 7 feet high and 15 feet wide, and at least 8 feet spacing between rows, unless otherwise approved by the Section. Stockpiling of all feedstocks and finished product must be limited to a maximum of 30-feet high and 50-feet wide.
20. Ash storage areas must be maintained to limit stormwater run-on and run-off, to prevent ponding and to prevent ash from entering surface water.

21. Each source of ash that is to be mixed with compost must be approved by the Section. Wood ash from Craven Wood Energy has been approved for mixing with the compost. All testing of the final compost must be after the ash, lime mud, and any other amendment has been added to the compost, as applicable.
22. Processing of materials, shredding, or grinding must not take place at the facility without a permit modification.
23. Testing of finished compost and reporting must be conducted in accordance with the requirements of Rule .1408 and the permit application. Compost process data must be maintained in writing as required to document temperatures, moisture levels, and aeration intervals. The sample collected for metals analysis is to be a composite sample from subsamples accumulated from each batch produced during the six month period, or 20,000 tons of compost produced, whichever comes first.
24. An annual report of facility activities for the fiscal year July 1 to June 30 must be submitted to the Section by August 1 of each year on forms provided by the Section. This report must include the amount of materials composted in tons.
25. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility, or another site approved by the Section, and made available to the Section upon request during normal business hours.
26. Facility construction, operations or practices must not 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 of the Clean Water Act, as amended.
27. Open burning of solid waste is prohibited. Fires must be reported to the regional environmental senior specialist with 24 hours of the occurrence, followed by a written report of the details of the fire within 10 days of the occurrence. All sides of storage and compost areas for flammable materials must be clear and driveable, to provide vehicular access in the event of a fire.

### **WATER QUALITY MONITORING**

28. Groundwater quality at this facility is subject to the classification, monitoring, and remedial action provisions of 15A NCAC 2L.
29. Ground water monitoring wells and surface water sampling locations must be established and monitored according to the specifications in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling, unless otherwise determined by the Section. Sampling shall be annual, unless otherwise specified by the Section. Any proposed modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.

30. Monitoring reports of the analytical results for surface water and groundwater monitoring 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 that also includes surface water sampling locations,
  - b. analytical laboratory reports and summary tables,
  - c. a completed Solid Waste Environment Monitoring Data Form, and
  - d. laboratory data submitted in accordance with the EDD Template.
31. A readily accessible unobstructed path must be maintained so that monitoring wells and surface water sampling locations are accessible using four-wheel drive vehicles.
32. Each groundwater monitoring well must be surveyed for location and elevation. Each groundwater monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
33. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each groundwater well and surface water location must be maintained in the onsite facility records. Records of all monitoring events and analytical data must be kept as part of the onsite facility records.

#### **OPERATION DURING CONSTRUCTION**

34. The permittee may continue to operate the existing compost operation on the northern area during construction of the new facility. The facility must be operated in accordance with the previously approved compost demonstration plans and approval letter.
35. Approval to operate the existing operation expires June 17, 2015, or when operational approval of the new facility is granted, whichever is sooner. If construction of the new facility is not completed within 18 months, the permittee must submit a request for reissuance of the Permit to Construct and Operate, which will require a permit modification. The facility design and Operation Plan shall be subject to and shall comply with the rules in effect at that time.