



Waste Management  
ENVIRONMENTAL QUALITY

**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost	<input checked="" type="checkbox"/>	SLAS	<b>COUNTY: Davie</b> <b>PERMIT NO.: 3005-Compost</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

**Date of Site Inspection:** 8-16-16

**Date of Last Inspection:** Initial Inspection

**FACILITY NAME AND ADDRESS:**

Gallins Family Farm Compost Facility  
222 Rocky Dale Lane  
Mocksville, NC 27028

**GPS COORDINATES:** N: 35.97512 W: 80.54014

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Name: Peter M. Gallins, General Manager  
Telephone: 336-407-0961  
Email address: peter@gallins.com

**FACILITY CONTACT ADDRESS:**

Same as above

**PARTICIPANTS:**

Peter Gallins, General Manager  
Lyndsy Gallins, Contracts Manager  
Kim Sue, NCDEQ - Environmental Senior Specialist - Solid Waste Section  
Deb Aja, NCDEQ – Western District Supervisor – Solid Waste Section  
Susan Heim, NCDEQ - Environmental Senior Specialist - Solid Waste Section

**STATUS OF PERMIT:**

The Permit to Operate a Small Type 3 Solid Waste Compost Facility was issued on September 4, 2015 and shall expire on September 4, 2020.

**PURPOSE OF SITE VISIT:**

Comprehensive Inspection

**STATUS OF PAST NOTED VIOLATIONS:**

N/A

**OBSERVED VIOLATIONS:**

- 15A North Carolina Administrative Code 13B .0203(d) states:** *“By receiving solid waste at a permitted facility, the permittee(s) shall be considered to have accepted the conditions of the permit and shall comply with the conditions of the permit.”*

**General Permit Condition Number 5 of Permit to Operate 3005 -Compost states:** *“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.”*

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**The approved Gallins Family Farm Compost Facility application for a permit to operate a proposed small type 3 solid waste compost facility, dated September 4, 2015 (Attachment 1, DIN 22584, Page 12) states:** *“Leachate”, “GFF has constructed an impermeable concrete pad with concrete catch basin, all underneath a roof system. All wastewater leachate from composting activities on the concrete pad is redistributed onto actively composting windrows, any excess is sent to waste water treatment. Leachate is not added to piles after PFRP, eliminating the risk of inoculating pathogens. Leachate is collected in a 2,000-gallon holding tank under roof, on a concrete pad with secondary containment. Secondary containment storage capacity is 750-Gallons.*

*To maintain zero-discharge of leachate from the composting site a 250-foot vegetative filter strips consisting of fescue and orchard grass is down slope from the site. Storm water is controlled to flow away from composting activities and avoid interception with compost material. The storage area is prepared in such a manner that water does not collect around the base of the stored material.”*

**Item 4 of Attachment 3 of the “Permit to Operate” dated September 4, 2015 (DIN 22583) states:** *“An appropriate Division of Energy, Mineral and Land Resources permit for managing any stormwater 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.”*

During the inspection leachate was observed ponded on the ground next to the concrete pad. Gallins Family Farm Compost Facility is in violation of 15A NCAC 13B .0203(d) by not containing and managing leachate in accordance with the approved Permit to Operate and application. Please contact Tony Gallagher, Composting and Land Application Branch Supervisor to revise any operational changes regarding leachate management.

- 2. 15A North Carolina Administrative Code 13B .1406(4) states,** *“Leachate shall be contained on site treated to meet the standards of the off-site disposal method.”*

During the inspection leachate was observed ponded on the ground next to the concrete pad. Gallins Family Farm Compost Facility is in violation of 15A NCAC 13B .1406(4) in that leachate was not being treated on site to meet the off-site disposal method.

To achieve compliance with 15A NCAC 13B .0203(d) and .1406(4), maintain and operate the facility so that leachate is collected and contained as approved in the Permit to Operate. Grade around the concrete pad to allow stormwater to discharge into the vegetative filter consisting of fescue and orchard grass.

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Ponding leachate at the NW corner of concrete pad.

3. **15A North Carolina Administrative Code 13B .1406(8)(A) Operational Requirements for Solid Waste Compost Facilities states,** “Signs providing information on waste that can be received, dumping procedures, the hours during which the site is open for public use, the permit number and other pertinent information shall be posted at the site entrance”.

During the inspection it was observed proper signage was not posted on the property identifying permit number, prohibited materials and emergency contact information. Gallins Family Farm Compost Facility is in violation of 15A NCAC 13B .1406(8)(A) by not posting the required signage. Mr. Gallins has acquired a quote for proper signage. A proof of the signage was provided after the inspection. The Gallins stated that once the proof is approved the turnaround time for the sign is 3-4 days.

**Gallins Family Farm**



Type III Solid Waste Compost Facility  
Only Approved Organic Waste Received  
Permit #3005  
Peter Gallins: (336) 407-0961

Hours of Operation:  
Monday-Friday 8:00am - 4:00pm

**NO UNAUTHORIZED ACCESS**  
**NO: hazardous waste, asbestos containing waste, or medical waste**  
Fire-Police-Medical Emergency Dial 911

Sign Proof

4. **15A North Carolina Administrative Code 13B .1406(8)(C) Operational Requirements for Solid Waste Compost Facilities states,** “Signs shall be posted stating that no hazardous waste, asbestos containing waste, or medical waste can be received at the site”.

During the inspection it was observed proper signage is not posted on the property identifying permit number, prohibited materials and emergency contact information. Gallins Family Farm Compost Facility is in violation

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of 15A NCAC 13B .1406(8)(C) by not posting the required signage.

To achieve compliance with 15A North Carolina Administrative Code 13B .1406(8)(A) and 15A North Carolina Administrative Code 13B .1406 (8)(C), install the sign once delivered.

5. **15A North Carolina Administrative Code 13B .0203(d)** states, *“By receiving solid waste at a permitted facility, the permittee(s) shall be considered to have accepted the conditions of the permit and shall comply with the conditions of the permit.”*

**General Permit Condition Number 5 of Permit to Operate 3005 -Compost states:** *“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.”*

**The approved Gallins Family Farm Compost Facility application for a permit to operate a proposed small type 3 solid waste compost facility dated September 4, 2015 (Attachment 1, DIN 22584, Page 9) Site Security states:** *“Fences will be utilized to exclude pests, animals, and thieves”.*

At the time of the inspection no fences had been installed. Mr. Gallins stated that they have future plans to install fencing. To achieve compliance either update or revise the application to remove this requirement or installing fencing by November 30, 2016.

6. **15A North Carolina Administrative Code 13B .0203(d)** states, *“By receiving solid waste at a permitted facility, the permittee(s) shall be considered to have accepted the conditions of the permit and shall comply with the conditions of the permit.”*

**General Permit Condition Number 5 of Permit to Operate 3005 -Compost states:** *“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.”*

**The approved Gallins Family Farm Compost Facility application for a permit to operate a proposed small type 3 solid waste compost facility dated September 4, 2015 (Attachment 1, DIN 22584, Page 10) states:** *“Environmental (Vectors, Weather, Odors, Etc.)”, “GFF composting operation dedicated time and resources to minimize undesirable environmental conditions on site. Undesirable conditions include dust, vectors, and odors. In the event of dust problems, Gallins will wet roads, windrows, staging areas, trucks, and any other areas or equipment. Water is available on site and throughout the property. Pest related problems will be addressed by utilizing IPM, integrated pest management. IPM strategies include eliminating pests by preventing entry with fences and other means, eliminating food sources, and disrupting life cycles (insects) mechanically and effective chemical controls.*

**Item 10 of Attachment 3 of the “Permit to Operate” dated September 4, 2015 (DIN 22583) states:** *“The facility must be operated in a manner that reduces the potential for vector attraction.”*

During the inspection an abundance of vectors were observed consisting of various insects and birds attracted to the active windrows. By not managing vectors in accordance with the approved application Gallins Family Farm Compost Facility is in violation with 15A North Carolina Administrative Code 13B .0203(d).

To achieve compliance with 15A North Carolina Administrative Code 13B .0203(d), ensure that sufficient carbonaceous material is available on site for composting processes and utilize the approved IPM, integrated pest management plan as detailed in the approved “Operations Plan” dated September 4, 2015 (DIN 22584) page 10 Section “Environmental (Vectors, Weather, Odors, Etc.).

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The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may also be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**ADDITIONAL COMMENTS**

1. The facility is permitted as a small, Type 3 Solid Waste Compost Facility. The facility operated as a demonstration project prior to the issuance of the permit. This is the first inspection of the facility.
2. All access roads were in good operational condition.
3. The 100-foot buffer is being maintained between the onsite well and compost areas.
4. The facility is being operated and maintained with sufficient dust control measures to minimize airborne emissions to prevent dust from becoming a nuisance or safety hazard.
5. Two windrows were in process on the concrete pad during the inspection. Three windrows had met PFRP and were curing in the field. A pile of finished product was on the concrete pad for purpose of capping in-process windrows.
6. The two windrows in-process had visible waste and flies. Finished compost was placed on the tops of these windrows as a “cap” to control odors. During the inspection odors were not detected at the property boundary, however, odors were detected around the compost piles in process and the leachate containment system. To be effective in controlling odors and to assist in the control of flies the cap should be extended to one-third of the height of the windrows and should be at least 4” to 6” thick.
7. The windrows appeared to be maintained in accordance with the size requirements of less than 12-feet high and 16-feet wide. The finished product was less than 30-feet high and 50-feet wide.
8. A waste distribution letter was issued by Tony Gallagher, Composting and Land Application Branch Supervisor on January 12, 2012.
9. Records Reviewed:
  - The current permit and approved operations plan are readily available for review.
  - Man made inert tests were performed on 9-15-15, 3-5-16 and 8-1-16. Compost was screened to ¼” size and smaller which resulted in 1% man made inerts. Please insure composite samples are taken at a depth of two to six feet into the pile from the outside surface of the pile.
  - Temperature logs reviewed from 7-1-16 to 8-15-16. Temperatures appeared to be maintained at or above the required temperature. Ensure documentation of temperatures, moisture levels, and aeration intervals are maintained.
  - Volume records were reviewed. The facility is operating within the volume limit of 1000 cubic yards per quarter and less than 2,000 tons per year.
    - 1<sup>st</sup> Quarter – 509.4 cubic yards
    - 2<sup>nd</sup> Quarter – 575.6 cubic yards
    - FY 2015-2016 – 964.80 tons
  - The complaint investigation form was reviewed. Documentation was provided for an investigation on an odor complaint received on August 8, 2016. No mixing or turning actions were taking place at the facility. No odors were not detected at the complaint site. The temperature was 85 degrees with predominate NE wind 0-10 MPH. Mr. Gallins will ensure turning or mixing is not taking place when the wind direction is out of the NW.

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Please contact me if you have any questions or concerns regarding this inspection report.

Phone: (704) 235-2163

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Kim Sue  
Environmental Senior Specialist  
*Regional Representative*

<b>E-mailed on: Peter and Lyndsy Gallins on August 26, 2016 by: Kim Sue</b>	X	Email		Hand delivery		US Mail		Certified No. [ ]
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Copies:

Tony Gallagher, Composting & Land Application Branch Supervisor – Solid Waste Section  
Jason Watkins, Field Operations Branch Supervisor – Solid Waste Section  
Deb Aja, Western District Supervisor - Solid Waste Section  
Jessica Montie, Compliance Officer – Solid Waste Section  
Susan Heim, Environmental Senior Specialist – Solid Waste Section