

FACILITY COMPLIANCE INSPECTION REPORT
Department of Environmental Quality
Division of Waste Management - Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost	X	SLAS	COUNTY: Chatham PERMIT NO.: 19-05 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Site Inspection: January 26, 2016

Date of Last Inspection: January 12, 2015

FACILITY NAME AND ADDRESS:

Brooks Compost Facility – Large Type 3 Solid Waste Compost Facility
 1195 Beal Road
 Goldston, NC 27252

GPS COORDINATES: N: 35.54431 E: -79.36780

FACILITY CONTACT NAME AND PHONE NUMBER:

Amy Brooks, Assistant Site Manager - Brooks Contractor, Inc.
 w. 919-837-5914
 f. 919-837-5097
 c. 919-842-6063
amy@brookscontractor.com
www.brookscontractor.com

FACILITY CONTACT ADDRESS:

Brooks Contractor, Inc.
 Amy Brooks, Assistant Site Manager
 1195 Beal Road
 Goldston, NC 27252

PARTICIPANTS

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)
 Amy Brooks, Assistant Site Manager - Brooks Contractor, Inc.
 Alan Brooks, Site Manager - Brooks Contractor, Inc.

STATUS OF PERMIT:

Permit To Operate (PTO) issued August 20, 2015
 PTO expiration date January 22, 2020

PURPOSE OF SITE VISIT:

Comprehensive Inspection

STATUS OF PAST NOTED VIOLATIONS

None

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OBSERVED VIOLATIONS

None

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

On January 26, 2016, John Patrone met with Amy Brooks and Alan Brooks to conduct a comprehensive inspection of the Brooks Compost Facility – Large Type 3 Solid Waste Compost Facility on Beal Road in Goldston, Chatham County.

1. The facility is a Large Type 3 Solid Waste Compost (SWC) Facility. It produces compost from eggshell/hatchery waste, food waste (pre-consumer and post-consumer), yard waste (primarily leaves), wood mulch, animal bedding, grease trap waste, etc. (see facility operations & maintenance manual, page 6) and additional materials approved by the Solid Waste Section (SWS).
2. Material is received from counties within North Carolina.
3. The facility permit, site plan, and operations plan were discussed.
4. The facility is in operation Monday through Friday 7:00 am to 5:00 pm and Saturday 8:00 am to 12:00 pm (March through November).
5. The compost produced is primarily sold to construction and landscape contractors, farmers, and landscape supply businesses.
6. Compost may be mixed with sand, pine bark fines, PermaTill, or per custom blend formula.
7. Liquid material is dumped into a mixing and bulking pit.
8. Solids with a high concentration of liquids are placed on an adjacent concrete pad to drain. Bulking material is added.
9. When liquid material is mixed with absorbent materials, in the mixing and bulking pit, they are placed onto the concrete pad to drain.
10. The concrete pad contains leachate drain grates. Leachate can be directed to the mixing and bulking pit or to two 3,500 gallon concrete storage tanks.
11. The concrete storage tanks are used to settle-out sludge and particulate material. A 20,000 gallon steel storage tank is used to store leachate that has drained from the concrete tanks. The leachate is pumped-out and used to irrigate active windrows.
12. Food waste is placed on the concrete pad upon receipt. It is mixed with bulking materials and placed in windrows.
13. Eggshell/hatchery waste is placed in windrows upon receipt. It is mixed with bulking materials as the windrow is constructed. A layer of uncured compost is placed atop the windrow.
14. Active windrows are organized into separate operational areas: eggshell/hatchery waste and food waste.
15. The facility commonly uses leaves, cardboard, mulch, and yard waste as bulking material.
16. The facility receives leaves during the leaf collection season from the Town of Cary and the Town of Siler City.
17. Active windrows appeared to be within required dimensions. Eggshell/hatchery waste windrows are commonly 350 feet long and food waste windrows 200 feet long.
18. During the inspection the facility had 38 active windrows.
19. The facility uses a windrow-turning machine to turn the active windrows. Windrows are constructed with a front end loader.
20. Active windrows are commonly maintained for 2 to 5 months during which time process to further reduce pathogens (PFRP) is met. The windrows meeting PFRP are combined into a curing pile. Material is generally cured for an additional 4 to 12 months.

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21. The facility maintains three curing piles/areas.
22. Cured compost is screened prior to sale – as needed.
23. Stockpiled cured compost is limited to a height of 60 feet.
24. The facility stated that a vehicle scale test was conducted by the North Carolina Department of Agriculture & Consumer Services in January 2016.
25. A vehicle scale test was conducted by Central Carolina Scale, Inc. on January 16, 2016. Zero error is noted. The facility stated that the scale is tested three or four times a year.
26. The facility annual report (FAR) dated July 27, 2015 was received by the SWS. Material received for July 2014 through June 2015 is 57,230.65 tons. The amount of compost created is 31,547 tons, the amount sold/given-away is 30,529 tons, and the amount stockpiled on site is 1,018 tons.
27. The facility maintains records of the quantity, type, and source of material received for processing. The amount of material received from July 2015 through January 26, 2016 is 36,791.2 tons. The amount of compost sold/given-away from July 2015 through January 26, 2016 is 9,194.2 tons. The amount of cured compost on site as of January 2016 is ~ 75,851 tons. The amount of leaves stockpiled on site as of January 26, 2016 is 5,575.86 tons.
28. The facility produces Grade A compost and offers an information pamphlet for customers and maintains a website containing user information.
29. The facility has three temperature probes. Temperature probe calibration records for 2015 were verified.
30. The facility uses Green Mountain Technologies, Inc. windrow manager software. The program allows the facility to electronically maintain active windrow data.
31. Windrow records were verified. Records for temperature, turning intervals, moisture level, bulk density, and C:N calculation are maintained. Records were observed for windrows finished on July 8, 2015 (food waste), July 20, 2015 (food waste), November 26, 2015 (eggshell/hatchery waste), and January 18, 2016 (eggshell/hatchery waste).
32. Windrow moisture level is measured by hand per the method outlined in the facility operations & maintenance manual on page 13.
33. Records document that the facility turns windrows at least five times during the high temperature period.
34. Compost analysis records were verified for nutrients, concentration of metals, manmade inerts, fecal coliform, and salmonella for samples taken September 17, 2015, identified as: BR-1 and BR-1ENOP. The samples were analyzed by Soil Control Lab, Watsonville, CA. Ms. Brooks stated that additional compost analysis will be conducted in February and May/June 2016.
35. Additional nutrient sample analysis is routinely conducted by the North Carolina Department of Agriculture & Consumer Services – Agronomic Services Division.
36. The facility has a water truck for dust control and one for windrow irrigation.
37. There was no odor detected at the facility boundary.
38. The facility has not received an odor complaint. Mr. Brooks stated that eggshell/hatchery waste is incorporated into windrows upon receipt, covered with a layer of compost, and commonly turned when winds are favorable.
39. The facility has a clay-lined stormwater pond. Stormwater is pumped-out for use in the active windrow process and for the irrigation of a nearby 20 acre field [when the irrigation system is constructed]. The facility does not discharge stormwater from the containment pond.
40. Mr. Brooks stated that the stormwater pond freeboard is ~ 8 feet.
41. Ensure the two stormwater pond sediment basins are cleaned-out.
42. The facility has been issued a Division of Water Resources Land Application (Irrigation) of Industrial By Product Compost Leachate and Stormwater Runoff permit, No. WQ0036333, issued: 11/17/14 - expiration: 09/30/18. Ms. Brooks stated that the irrigation system is expected to be constructed during the summer of 2016.
43. An emergency at the facility can be addressed by the Goldston Fire Department.
44. Fire lanes are maintained.
45. The facility is secured by a metal gate with lock (the Brooks' residence is located at the entrance drive to the facility). Facility personnel are on site during operating hours.
46. Access roads are of all-weather construction.
47. The facility has proper signage.

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48. The PTO expiration date is January 22, 2020

49. The PTO renewal application shall be submitted to the SWS by September 22, 2019.

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

Phone: 336-776-9673

John Patrone, Environmental Senior Specialist
 Division of Waste Management, NCDEQ

Sent on: <u>January 28, 2016</u>	X	Email		Hand delivery		US Mail		Certified No. []
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Electronic Copies: Deb Aja, Western District Supervisor - SWS
 Jessica Montie, Compliance Officer – SWS
 Tony Gallagher, Composting & Land Application Branch Head - SWS
 Michelle Sclafani, Environmental Technician – SWS
 Alan Brooks, Brooks Contractor, Inc. (c. 919-842-0010, alan@brookscontractor.com)

Digital pictures taken January 26, 2016
 by John Patrone, DWM-SWS

Mixing and bulking pit



Food waste mixed with bulking material on concrete pad



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Eggshell/hatchery waste windrows



Food waste windrows



Stormwater pond



Compost curing pile - representative

