

B&B CONCRETE PRODUCTS, INC.

1687 GEORGIA ROAD
FRANKLIN NC 28734

PH. 828-524-6483 FAX 828 524 5194

www.bbconcreteproducts.com



January 10, 2014

Ms. Donna Wilson
NC. Department of Environmental & Natural Resources
1646 Mail Service Center
Raleigh, NC 27699 1646

Dear Ms. Wilson:

APPROVED DOCUMENT
Division of Waste
Management
Solid Waste Section
Approved October 24, 2014
By D. Wilson
Facility ID 5705-COMPOST
Doc ID 21964 (permit)
Doc ID 21966 (applic)

B&B Concrete Products, Inc., owned and operated by Nelson Bates as per N.C. Administrative Code, Solid Waste Management Rules, Section .1400, by this letter requests a renewal of the permit (SWC-57-05) for a Type 3, small solid waste compost facility. The following information is provided as requested in section .1405 Application Requirements.

1. An aerial photograph is enclosed. The portion of Macon County where this facility is located is now zoned under the Town of Franklin's Extraterritorial Jurisdiction (ETJ).
2. A letter from the Town of Franklin concerning compliance with the current zoning is enclosed.
3. The site is not located in a 100-year flood plain.

The nearest property line is the southwest corner of the property and it is at least 100' from the facility.

The nearest residence not owned by the applicant is 250' feet to the south.

There are no wells within 100' feet of the facility.

The nearest perennial stream is the Cartoogechaye which is approximately ¼ mile away.

The facility is not located over a closed solid waste facility.

The facility is small enough that the fire department can access all parts of the facility.

The facility is designed to control the possibility of run-off entering ground or surface waters. Runoff from normal rainfall events is directed in a 1,000 gallon storage tank adjacent to the concrete pad. The concrete pad is at least 5 inches thick. The tank is pumped as needed and the liquid removed is used for moisture in the windrows (prior to PFRP) or transported to the Town of Franklin wastewater treatment facility.

4. The following wastes will be composted at the facility.

Grease trap pumpings	50 to 150 yds of solids per year
Domestic septage	10 to 20 yds of solids per year
Ground yard waste from the MC Landfill	200-300 yds per year
Ground pallets from the MC Landfill	
Saw dust from log home production business	
Source separated paper	

A concrete pad is used for this facility.

5. Site plan is attached.

6. (A) The person responsible for the operation of the facility is:
Nelson W. Bates, 1687 Georgia Road, Franklin, NC 28734

(B) Facility is operated by the owner and yard foreman. Each one will as necessary perform any of the duties required in the operation of the facility

- (C) Operation plan for the facility.

Grease trap pumpings and domestic septage are discharged into a permitted septage detention and treatment facility located adjacent to the compost pad. Every 6 weeks to 3 months, solids are removed from the large separated tank and moved by truck and backhoe to the compost pad. The solids are mixed with the bulking material on the compost pad using the backhoe. The blended materials are then shaped into windrows approximately 8 to 12' wide and 5 to 7' high. Domestic septage is screened and filtered through bulking material to remove the solids at the Septage Facility. The blended material is then mixed with the grease and bulking material in the windrows.

Windrows remain in place for 30 to 90 days depending on the need for space. Temperatures are maintained at or above 131 degrees for at least 15 days. Windrows are turned at least five times while the temperatures are above 131 degrees. Temperatures are monitored almost every workday with a three foot temperature probe.

Finished product is removed from the facility and stored off site.

(D) The facility is sheltered from high winds by surrounding topography and can be moistened if necessary to prevent blowing. Surface run-on is controlled and windrows will be turned more often to provide aeration if heavy rains cause wetness. Snow and freezing conditions have not hindered operation of the facility. All operations can be delayed for a few days if necessary to wait for snow to melt.

(E) Noise will be controlled by operating equipment only during regular working days. Odor will be controlled by covering windrows with bulking materials. Dust will be controlled by maintaining proper moisture levels. The facility is not located near a dense residential development.

(F) Finished product will be sold or given to the public. Finished product is removed from the facility by backhoe and dump truck. Un-useable compost will be re-blended and composted again or transported to the Macon County Landfill for disposal.

7. (A) Design capacity is approximately 500 yards per year. There is room for expansion noted on the site plan.
- (B) See attached.
- (C) No shredding is done at the facility. Mixing and proportioning are done with the backhoe bucket.
- (D) Process duration from blending until distribution is 60 days to 6 months.
- (E) Temperatures are measured almost every working day and are recorded 2 to 3 places in each windrow. Temperatures are taken from the center portion of the windrows.
- (F) Temperatures will be maintained at or above 131 F for at least 15 days and turned at least 5 times during that period to meet pathogen reduction and vector attraction requirements. Temperature reading will be maintained to demonstrate that temperatures requirements have been met.
- (G) Aeration will be through turning with a backhoe. The windrows can be turned 5 times per day if needed.
- (H) Run-on is controlled by the topography around the facility and the elevation of the pad. Runoff from normal rainfall events is directed into the tank next to the facility.

8. Label will indicate.
Compost meets class A standards of the NC Solid Waste Compost Rules.
Finished product is recommended for use as a mulch.
Application rates are ½ to 1 inch as a mulch. No restrictions unless dictated by the NC Solid Waste Rules. Do not recommend applying directly over vegetable plants immediately before harvest.
9. There is not manufactured Compost equipment at this facility.
10. Operation and Maintenance Manual is attached.

OPERATION AND MAINTENANCE INSTRUCTIONS

Grease trap pumpings or bulking agents that domestic septage has been filtered through are moved from the septage detention and treatment facility to the compost pad when ready to make windrows. A base of bulking material at least 12 inches thick with a berm of bulking material around it is laid out on the pad to begin forming the windrow. The grease trap pumpings are placed on the bulking material and the combination is mixed with the backhoe. After the material is well mixed, it is placed in a windrow with the backhoe. One backhoe bucket of grease is normally mixed with two buckets of bulking material.

Any foreign material found in the bulking material, septage or grease tank pumpings is removed during mixing. Foreign material is placed in a trash can for removal as necessary to the Macon County Landfill.

Windrows are formed eight to twelve feet wide at the bottom and five to seven feet high. The windrows run from the front of the pad to the back. The completed windrow should contain enough moisture that the blend will feel moist but water cannot be squeezed out of the blend.

Temperature recording normally begins the day after the windrow is formed. Readings are normally taken in the morning. A three foot temperature probe is used to monitor temperatures. The probe is kept in the B&B Concrete office, adjacent to the facility. Temperatures are normally checked in 2-4 places in the windrows depending on the length of the windrow. Temperatures are recorded and records are maintained in the office. The probe is normally inserted into the middle portion of the windrow.

The initial windrow turning normally occurs approximately two weeks after formation when the windrow temperature rises above 131F. Windrows may be turned sooner if temperatures do not rise. Windrows will be turned every 3 to 7 days while temperatures are above 131F. At least five turnings are made while the temperature is above 131F.

Curing is primarily allowed to occur in the windrows. Finished compost that has met the pathogen reduction and vector attraction reduction requirements and appears to be stable is moved to an off-site storage area. Some curing may occur at the storage area.

Samples of the compost are collected from each windrow and maintained until six months of windrow samples have been collected. The material is then sent to the NCDA Waste Analysis lab to be analyzed for metals, nutrients, soluble salts and carbon nitrogen ration. A separate sample is taken every six months from a finished windrow and sent to a private lab for analysis for fecal coliform. Sterile techniques are used when pathogen samples are taken. Samples are put in a cooler and transported directly to the lab.

Compost that does not meet the NC Solid Waste Compost Rule standards as class A will be re-composted or will be taken to the Macon County Landfill.

An annual report is submitted to the NC Division of Waste Management by August 1 of each year for the previous July 1 – June 30. The report will contain the information required in .1408 of the Solid Waste Compost Rules.

A front end loader is available for use if the backhoe is not available for turning or blending. All waste is brought to the facility by Company employees so non-conforming waste should not be a problem. Any foreign material will be removed before or after composting. Vectors and odors are controlled by covering the windrows with bulking material, as necessary. Fires can be controlled with equipment at the facility and by calling the local fire department.

An annual report will be prepared every year and submitted to the Solid Waste Section. The report will be submitted by August 1st of each year for the prior July 1st to June 30th period. Each annual report will include, at a minimum:

1. The facility name, address and permit number.
2. The total quantity in tons of waste received at the facility.
3. The total quantity in tons of waste processed into compost during the year.
4. The total quantity in tons and type of compost produced at the facility.

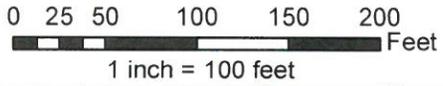
5. The total quantity of tons of compost removed from the facility by product classification.
6. Monthly temperature monitoring.
7. Results of testing for pathogens, metals and man made inerts.

Sincerely,
B&B CONCRETE PRODUCTS, INC.

Nelson W Bates

Nelson W. Bates, President
1687 Georgia Road
Franklin, NC 28734

wbv



MAP DATA FOR TAX MAPPING ONLY



Legend

- PARCELS_VIEW
- ParcelLines**
- BOUNDARYTYPE**
- Easement
- Leader-Line
- Lot-Line
- Parcel
- Parcel-Hook

BATES, NELSON WAYNE
6583790865
6.78 Ac
Q-14/16

BATES, GREG ALAN
6583795727
0.61 Ac
S-34/2170

BATES, NELSON W
6583699655
2.5 Ac
I-33/737

39 BLANTON RD

B AND B CONCRETE PRODUCTS INC
6583698577
2.7 Ac
M-11/268

B AND B CONCRETE PRODUCTS INC
6583698413
5 Ac
G-10/298

B AND B CONCRETE PRODUCTS INC
6583793374
1.16 Ac

1629 GEORGIA RD

1618 GEORGIA RD

1638 GEORGIA RD

KLATT, VIOLET TR
6583892523
34 Ac
J-23/21

1633 GEORGIA RD

B AND B CONCRETE PRODUCTS INC
6583791146
1.25 Ac
S-27/313

B AND B CONCRETE PRODUCTS INC
6583696271
4.05 Ac
V-31/42

1687 GEORGIA RD

61 BLANTON RD

BLANTON, JAMES CARL
6583781906
1.28 Ac

VANDERWOUDE, JAMES A
6583785737
4.39 Ac
K-25/91

30 BLANTON RD

TOWN OF FRANKLIN



Post Office Box 1479
Franklin, North Carolina 28744
(828) 524-2516

Mr. Warren J. Cabe
Manager
Town of Franklin
PO Box 1479
Franklin, NC 28744
January 10, 2014

To Whom It May Concern,

The Town of Franklin adopted a Unified Development Ordinance in October 2007 as a mechanism to deal with all land use decisions. The property located at 1687 Georgia Road currently occupied by B&B Concrete Products is classified by the zoning map as being located in a Commercial-2 or C-2 District. The Town of Franklin does allow light manufacturing to be located in a C-2 district. It is therefore my opinion that B&B Concrete Products located at 1687 Georgia Road is in compliance with current zoning regulations with the Town of Franklin at the present time.

If you have questions or need further information please feel free to contact my office at 828-524-2516.

Sincerely;

Warren J. Cabe

Cc: File