



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

August 19, 2009

Mr. David Newsome  
D & D Septic, LLC  
441 Buck Newsome Rd  
Fremont, North Carolina 27830

Re: SWCD-98-01

Dear Mr. Newsome:

The Division of Waste Management, Solid Waste Section, has reviewed your request for an extension of D & D Septic, LLCs approval of a Solid Waste Pilot Composting Project. Your request is considered approved in accordance with the N.C. Solid Waste Management Rules, 15A NCAC 13B .1409 and subject to the following conditions:

1. All original permit conditions remain in effect.
2. The demonstration approval shall expire February 5, 2010 and all operations shall cease after that date unless a permit to operate a solid waste management facility has been obtained.
3. Should you choose to apply for a permit to operate this facility the application should be submitted at least 90 days prior to this approval expiring.

Mr. Ben Barnes, Environmental Senior Specialist, will be responsible for oversight and inspection of the facility and activities. Mr. Barnes can be contacted at (919) 621-3680. If you have any questions please feel free to contact me at 919-508-8508.

Sincerely,

Michael E. Scott, Environmental Supervisor.  
Composting & Land Application Branch

cc: Ben Barnes, Environmental Senior Specialist  
Central File

h:\cla\compost\Demo\98-Wilson\Newsome-ext0809.doc



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August 19, 2009

Mr. David Newsome  
D & D Septic, LLC  
441 Buck Newsome Rd  
Fremont, North Carolina 27830

Re: SWCD-98-01

Dear Mr. Newsome:

The Division of Waste Management, Solid Waste Section, has reviewed the results of the tests conducted on the compost produced at your compost demonstration project in Wilson County. The test results meet the minimum requirements for pathogens, regulated metals and man made inerts in the Solid Waste Compost Rules. The compost is therefore approved for distribution.

This approval is ongoing as long as the required tests are conducted every 6 months or 20,000 tons, the results are acceptable and are submitted to the Division in a timely manner. In addition, operational records must be maintained and be available to Division staff during inspections.

If you have any questions please feel free to contact me at 919-508-8508.

Sincerely,

Michael E. Scott, Environmental Supervisor  
Composting & Land Application Branch

cc: Ben Barnes, Environmental Senior Specialist  
Central File

<h:\cia\compost\Distribu\98-Wilson\Newsome-distrappr0809.doc>

June 29, 2009

David L. Newsome of  
D+D Septic, LLC (STDF permit  
# 98-08) is requesting a  
12 month extension on the  
composting facility. The reason  
being is that he is still working  
on composting with different  
types of bulking materials.  
Also, he is working on perfecting  
the right formula to use with  
these materials.

Thank You -



David L. Newsome  
D+D Septic, LLC  
441 Buck Newsome Rd  
Fremont, NC 27830  
919-242-3751

Cell# 252-206-6802

6-29-09 - David L. Newsome



# Waste Analysis Report

Grower: **Newsome Brothers Farm**  
 Attn: David Newsome  
 441 Buck Newsome Rd.  
 Fremont, NC 27830

Copies To:

Farm:

**Wayne County**

12/11/2008

Sample Information		Laboratory Results (parts per million unless otherwise noted)																			
Sample ID: DD-A1	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	C							
	Total	13636	2654	769	10612	553	1518	1944	76.4	228	152	8.71		216945							
Waste Code: IOC	-NH4 -NO3	Na	Ni	Cd	Pb	Al	Se	Li	pH	SS	C:N	DM%	CCE%	ALE(tons)							
Description: Indust.-Other (Compost)	OR-N Urea	162	7.69	1.10	5.73				6.75	43	15.91	47.49									
<b>Recommendations:</b>		<b>Nutrients Available for First Crop</b>										<b>Other Elements</b>									
Application Method		N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		3.9	3.5	0.70	6.1	0.32	0.86	1.1	0.04	0.13	0.09	T			0.15	0.01	T	0.01			
Soil Incorp		5.2	4.3	0.79	7.6	0.39	1.1	1.4	0.05	0.16	0.11	0.01			0.15	0.01	T	0.01			

Completed: 12/10/2008

Nitrogen is very high in relation to carbon (Low C:N Ratio). If the waste product is to be used as a raw material in composting, blend it with another material with a high C:N ratio. The C:N ratio should be 20-30 for ideal composting conditions.

Soluble salt level is low. The compost can be used as a landscape soil or potting media without blending other materials to lower soluble salts. Additional fertilizer may be needed to supply required nutrients. Take a matching soil sample of the compost to further evaluate nutrient availability and pH.

Compost pH is higher than ideal for plant production. If the compost will be used as a landscape or potting soil, blend other materials or add elemental sulfur to decrease pH to the desired range. As a general rule, add 0.25 lb. of elemental sulfur per cu. yd. of soil to lower pH 0.5-1.0 unit. One month after treatment, take a soil sample to determine if pH is within the desired range.

Sample Information		Laboratory Results (parts per million unless otherwise noted)																			
Sample ID: DD-A2	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	C							
	Total	10677	1976	466	8721	400	1294	1840	57.3	207	135	8.85		248654							
Waste Code: IOC	-NH4 -NO3	Na	Ni	Cd	Pb	Al	Se	Li	pH	SS	C:N	DM%	CCE%	ALE(tons)							
Description: Indust.-Other (Compost)	OR-N Urea	96.6	14.0	1.06	4.50				6.37	70	23.29	47.45									
<b>Recommendations:</b>		<b>Nutrients Available for First Crop</b>										<b>Other Elements</b>									
Application Method		N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		3.0	2.6	0.42	5.0	0.23	0.74	1.1	0.03	0.12	0.08	0.01			0.09	0.01	T	T			
Soil Incorp		4.1	3.2	0.48	6.2	0.28	0.92	1.3	0.04	0.15	0.10	0.01			0.09	0.01	T	T			

The waste product has an ideal C:N ratio of 20-30 for optimum composting. No additional blending is necessary.

Soluble salt level indicates nutrient availability is likely adequate but not excessive. The material can likely be used as a landscape soil or potting media without blending other materials. Take a matching soil sample to further evaluate pH and nutrient availability.

Sample Information	Laboratory Results (parts per million unless otherwise noted)																			
Sample ID:	<i>N</i>	<i>P</i>	<i>K</i>	<i>Ca</i>	<i>Mg</i>	<i>S</i>	<i>Fe</i>	<i>Mn</i>	<i>Zn</i>	<i>Cu</i>	<i>B</i>	<i>Mo</i>	<i>Cl</i>	<i>C</i>						
DD-B1	Total	11941	2234	678	10768	380	1537	1869	47.6	185	111	7.87		226293						
Waste Code:	<i>IN-N</i>																			
IOC	-NH4																			
Description:	-NO3	<i>Na</i>	<i>Ni</i>	<i>Cd</i>	<i>Pb</i>	<i>Al</i>	<i>Se</i>	<i>Li</i>	<i>pH</i>	<i>SS</i>	<i>C:N</i>	<i>DM%</i>	<i>CCE%</i>	<i>ALE(tons)</i>						
Indust.-Other (Compost)	OR-N	175	7.76	1.07	4.84				5.81	73	18.95	51.09								
	<i>Urea</i>																			
Recommendations:	Nutrients Available for First Crop										Other Elements									
Application Method	<i>N</i>	<i>P2O5</i>	<i>K2O</i>	<i>Ca</i>	<i>Mg</i>	<i>S</i>	<i>Fe</i>	<i>Mn</i>	<i>Zn</i>	<i>Cu</i>	<i>B</i>	<i>Mo</i>	<i>Cl</i>	<i>Na</i>	<i>Ni</i>	<i>Cd</i>	<i>Pb</i>	<i>Al</i>	<i>Se</i>	<i>Li</i>
Broadcast	3.7	3.1	0.66	6.6	0.23	0.94	1.2	0.03	0.11	0.07	T			0.18	0.01	T	T			
Soil Incorp	4.9	3.9	0.75	8.3	0.29	1.2	1.4	0.04	0.14	0.09	0.01			0.18	0.01	T	T			

Nitrogen is very high in relation to carbon (Low C:N Ratio). If the waste product is to be used as a raw material in composting, blend it with another material with a high C:N ratio. The C:N ratio should be 20-30 for ideal composting conditions.

Soluble salt level indicates nutrient availability is likely adequate but not excessive. The material can likely be used as a landscape soil or potting media without blending other materials. Take a matching soil sample to further evaluate pH and nutrient availability.

Compost:

Foreign matter identified,  
separated & weighed.

less than 0.420%

Date: 1-2-09

Signature: David L. Neumann


**Microbac Laboratories, Inc.**

**SOUTHERN TESTING & RESEARCH DIVISION**  
**3809 AIRPORT DRIVE, NW**  
**WILSON, NC 27896-8649**  
**(252) 237-4175 (252) 237-9341 (fax)**  
**www.southerntesting.com**

**REPORT of ANALYSIS**

SAMPLE No.: T8803-001 / AB88065  
 Date Reported: Monday, December 08, 2008

DAVID NEWSOME  
 D&D SEPTIC LLC  
 441 BUCK NEWSOME RD  
 FREMONT NC 27830

Phone / Fax: 252-206-6802/919-242-4268  
 P O:

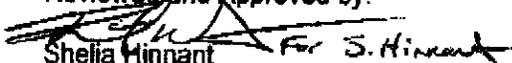
Client Sample Marks: A-1/A-2/A-3 COMPOST

Sample Collection Date:	12/2/2008	12:10:00 PM	Matrix:	SL
Lab Submittal Date:	12/2/2008	1:00:00 PM	Classification:	E

CAT No.	ANALYSES	METHOD	ANALYZED	by	PQL	RESULT	UNIT
EB-007-01	Fecal Coliform (MPN) sw	SM 9221E	12/2/2008	JBD	1	480	MPN/g
EW-040-12-G	SOLIDS: TOTAL (%)	SM 2540B	12/3/2008	AJF	0.004	49.6	%

Sample Comments:

Reviewed and Approved by:

  
 Shelia Hinnant

For S. Hinnant  
 Manager, Analytical Sciences Department



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

February 5, 2008

Mr. David Newsome  
D & D Septic, LLC  
441 Buck Newsome Rd  
Fremont, NC 27830

Dear Mr. Newsome:

The Division of Waste Management, Solid Waste Section, has reviewed your request for approval of a Solid Waste Pilot Composting Approval on Pelt Rd in Wilson County. The site is on the same tract of land as Septage Detention and Treatment Facility, permit number 98-08. Your request is considered approved in accordance with the N.C. Solid Waste Management Rules, 15A NCAC 13B .1409 and subject to the following conditions:

- (1) The approval period is from receipt of this letter to February 5, 2009. If an extension is needed it must be requested by January 1, 2009 with a justification for the extension.
- (2) A full Solid Waste Compost facility permit will not be issued for this facility without approval from the appropriate local zoning officials or a letter indicating that the property is not zoned. Any local zoning approvals necessary for the demonstration approval are the responsibility of the applicant. A letter is on file from the Wilson County Planning Department stating that since the finished compost will be for agricultural purposes this will be a permitted use within the A-R zone. The letter also states that a Special Use Permit must be applied for if D & D Septic, LLC begins to sell the compost.
- (3) Composting at this site shall be limited to the materials specified in the application.
- (4) The site shall be prepared to control run-off and run-on. Best management practices shall be utilized for this purpose. All run-off from the site and any leachate generated shall be managed to prevent any impact to ground or surface waters. A full Solid Waste Compost facility permit will not be issued for this facility until storm water and leachate from the site are managed according to the Division of Water Quality's standards.
- (5) This approval is subject to immediate revocation if activities on site result in a direct or potential threat to the public health or the environment or if significant odor problems are created. The Division of Waste Management reserves the right to apply any other requirements of 15A NCAC 13B Section .1400 as the Division deems necessary during the above approval period.
- (6) Operation of the facility and compost monitoring activities shall be in accordance with the approved application and Section .1406 of the Solid Waste Management Rules. Records of temperatures shall be maintained to show pathogen reduction and vector attraction reduction requirements have been met and shall be available to representatives of the Section upon request.

- (7) Compost testing, frequency of testing, and reporting of test results shall be in accordance with the approved application and Section .1408 of the Solid Waste Management Rules. Classification and distribution of compost shall be in accordance with Section .1407 of the Solid Waste Management Rules.
- (8) **All compost shall be tested and the results approved by the Solid Waste Section prior to removal from the facility for any use.**
- (9) **Compost may not be land applied on the existing adjacent septage land application site, permit # SLAS-98-08 without approval from the Solid Waste Section. Septage from the existing land application site shall not be land applied within the designated boundaries of the compost facility.**
- (10) Any changes or additions to this facility, subsequent to receipt of this letter shall be approved prior to the start of construction.
- (11) This approval is not transferable.
- (12) Composting may not begin until a pre-operation meeting has been held at the facility to review facility boundaries and operation. Facility boundaries will need to be marked during that visit.
- (13) Ms. Mary Whaley, Regional Environmental Senior Specialist, will be responsible for oversight and inspection of the facility and related activities. Ms. Whaley can be contacted at (919) 693-5023.

If you have questions concerning this approval please contact Michael Scott, Composting and Land Application Branch Supervisor at (919) 508-8508.

Sincerely,  


Paul S. Crissman, Section Chief  
Solid Waste Section

cc: Mary Whaley, Environmental Senior Specialist  
Central File

<h:cla/compost/demo/approval/98-Wilson/Newsomedemoapprov-02-08-08>

# Request for Compost Demonstration Permit for 1 Year

1. Site Owner: David L Newsome- owner & operator of D&D Septic, LLC  
441 Buck Newsome Road  
Fremont, NC 27830  
(919) 242-3751  
(252) 206-6802 cell

Land Owner: Newsome Brothers Farms, LLC  
477 Buck Newsome Road  
Fremont, NC 27830  
(919) 242-4263



2. Location: State Road #1632  
Take 58 E from Wilson to 222W. Right on Pelt Road. Site is approx. 2.5 miles on right. Stantonsburg, NC Wilson County
3. Ingredients:
- A) Yard waste
  - B) Dewatered domestic septage and grease trap pumping
  - C) Clean unpainted and untreated wood
  - D) Pre and post consumer food waste
  - E) Food processing waste
  - F) Inorganic N may be added if need for proper C:N
  - G) Wood chips
  - G) Land clearing debris
  - H) Poultry litter
  - I) Tobacco dust
  - J) Produce waste
4. Schedule:  
Request a twelve month approval to work with compost process to get proper mixture and procedures.
5. Methodology: Windrows:  
Primary compost method will be windrows. Individual windrows will be 10-15 ft wide and 6-10 ft high. Windrows will not exceed 100 ft in length.  
Wastes will be premixed on a clay or concrete pad prior to putting into a windrow or layer waste into windrows to determine the most efficient process for our operation. Windrows will be covered with finished compost or mulch as necessary to control odor. Windrows will be laid out on adequate slope to prevent water from collecting at the base.

A rotating drum or bins may be tested during the demonstration period.

**6. Aeration:**

Aeration will be provided by turning windrows with a rubber tired front end, <sup>ath-y,</sup> loader, skid steer or a dozer with turning blade. After initial heating of compost, windrows will be turned every 3-5 days, until pathogen reduction requirements have been met. Windrows will maintain above 131 degrees for 15 consecutive days, and during the period the windrows are above 131 degrees, they will be turned at least 5 times.

After pathogen reduction requirements have been met, windrows will be turned as often as needed, to maintain oxygen and moisture levels. Each step will be documented and kept for reference to accomplish proper mixture. Compost will be turned as needed to add oxygen and keep temperature to at least 131 degrees.

**7. Blending:**

Blending will be done by mixing 2 yard waste to 1 domestic septic and grease trap waste on top and blending with a tractor.

**8. Monitoring:**

Temperatures will be measured at least 3-4 times per week ( Monday-Wednesday-Friday) until pathogen reduction requirements are met. Windrows will be monitored every 25 ft and at varying depths. Moisture will be checked by hand method- by squeezing compost and checking water dripping out or to dry by compost falling apart.

**9. Leachate:**

Material will be mixed in proper proportions so that water does not run out. Areas down slope from the compost area are vegetated with a 85 - 90 % cover of fescue or some type of cover crop.

**10. On-Site Storage:**

Storage of grease trap and septic pumping are stored at a permitted storage facility- License # 98-08

Yard waste will be stored adjacent to the windrow area. This area has a clay subsoil and adequate depth to seasonal wetness.

**11. Product testing:**

Product will be tested prior to distribution for fecal coliform bacteria, man made inert, required regulated metals. An NCDA Waste analysis will be used for metal levels. Man made inert will be done by taking a 5 gallon bucket sample of compost and weighing it. Then sift through a ¼ inch screen and weighing trash. Trash weight must weigh less than 6% of total product weight. Fecal coli form analysis will be conducted by a private lab. Sterile techniques will be used in taking these samples.

12. Record Keeping:

Records will be kept of all temperature readings and when each windrow is turned. Records will show that each windrow maintained a temperature of a least 131 degrees for at least 15 consecutive days and that each windrows was turned at least 5 times while above 131 degrees. Each windrow will have its own identification number. Records will be kept of the type and quantity of all materials in each windrow, in pounds. (yard waste averages 400lb. per yard)

13. Product use:

Product will be sold or given away for Horticulture and/or Agriculture use.

D&D Septic, LLC

*David L. Newsome* 3-22-07

David L. Newsome  
Owner

Item 12 continued:

Records will include:

- 1) The quantity, type and source of waste received.
- 2) The quantity and type of waste processed into compost.
- 3) The quantity and type of compost produced by product classification.
- 4) The quantity and type of compost removed for use or disposal, by product classification, and the market or permitted disposal facility.
- 5) Numbers will be reported in tons.

*David L Newome*  
 3-31-07



98-004 ywn

Landowners Authorization Letter

I hereby certify that the undersigned limited liability company, Newsome Brothers Farms, owns Farm number 5419, Tract number 188, on State road number 1632, in Wilson County.

Newsome Brothers Farms agrees to allow, D & D Septic, LLC, to use said land for a septage treatment facility and compost operation.

Newsome Brothers Farms owners understand that D & D Septic site operators will follow all NC Solid Waste Composting Guidelines on said property site.

Date: 3-22-07

Newsome Brothers Farms  
477 Buck Newsome Road  
Fremont, NC 27830  
(919) 242-4263

*Paul Newsome*  
Signature (Authorized Member )

PAUL NEWSOME VICE  
Print Name and Title PRESIDENT

Certification:

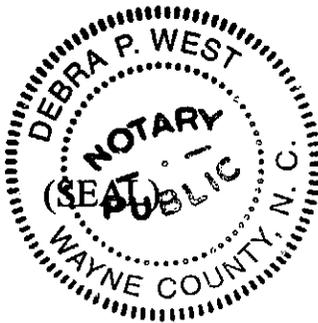
To the best of my knowledge and belief, I certify the information provided in this notification is true, accurate and complete.

Name of Authorized Agent

Signature *David L Newsome*

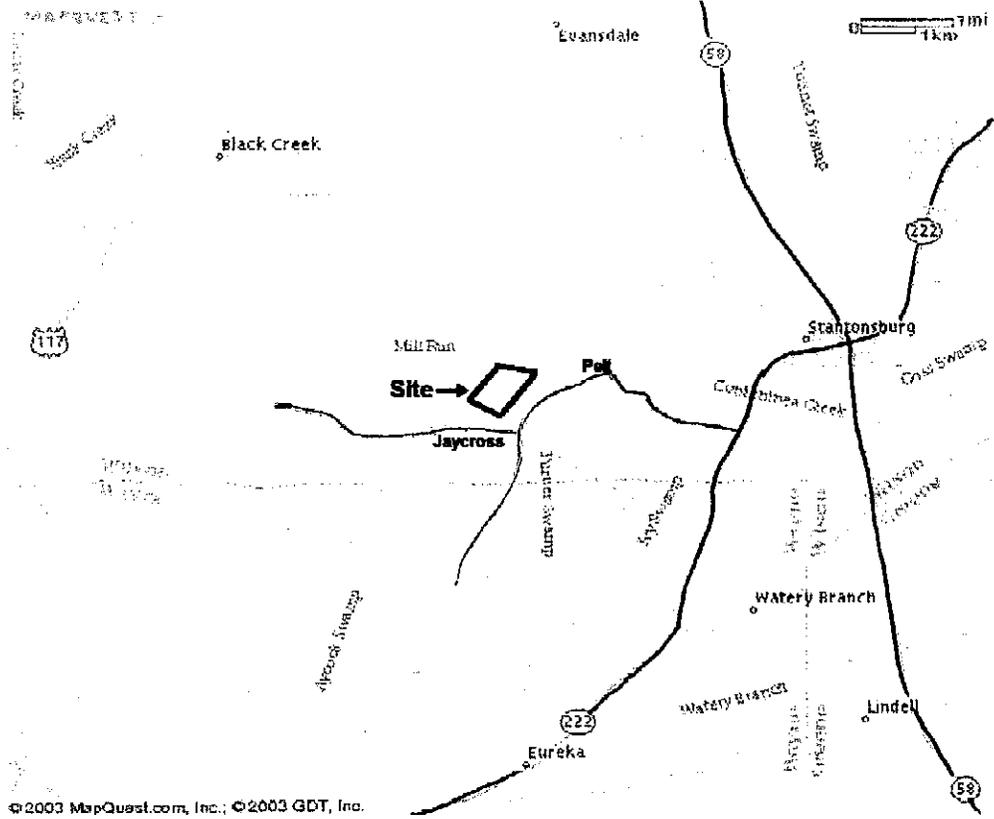
DAVID L. NEWSOME <sup>MEM</sup>/<sub>MAN</sub>  
Print Name and Title

Date 3-22-07



NOTARY PUBLIC *Debra P. West*

My commission expires: 5-12-07



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# Wilson County Planning Department

Joey Raczkowski, AICP, CZO  
*Director*

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2201 Miller Road South • PO Box 1728 • Wilson, NC 27894-1728 • Fax: (252) 399-2770

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**Planning/Inspections**  
252-399-2965

**Mapping/GIS**  
252-399-2846

**Wilson County Transportation Services**  
252-399-2817

March 1, 2007

David L. Newsome  
441 Buck Newsome Road  
Fremont, NC 27830



To Whom It May Concern:

This letter is in response to a request that was received by the Wilson County Planning Office from D & D Septic, LLC for a Septic Treatment Facility and Compost Operation site located on Pelt Road having PIN number 3637-35-1432. This farm is zoned Agricultural –Residential and because the finished compost product will be for agricultural purposes this will be a permitted use within the A-R zone.

Wilson County wants you to know that if you begin to sell the compost then you must come into our office and apply for a Special Use Permit. If you should have any questions or if I can assist you in any other way you can contact me at (252 - 399 – 2782).

Sincerely,

Dwayne Jones,  
Planner I, CZO

D & D Septic LLC Compost Facility

*Permit 3549  
not for*

1) Landowner's authorization form? Property owned by Newsome Brothers Farms, LLC

2) Premixing wastes on a clay pad?

*add see in cond. for 5*

*OK*

3) Part 10 should be a loam to clay subsoil.

*OK*

4) No signature on the application.

*OK*

5) Cover sheet?

*would you  
not*

6) Fema floodplain map?

7) The aerial photo is a copy.

*ok if readable + to scale*

*address change + zoning  
in permit cond. for 5*

*add  
to app*

*Waste received  
in records*

*+ compost dist  
Also for 5.*

693-5023



**North Carolina Department of Environment and Natural Resources**

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

March 14, 2007

MR DAVID NEWSOME  
D&D SEPTIC LLC  
441 BUCK NEWSOME RD  
FREMONT NC 27830

**RE: Yard Waste Notification & Compost Demonstration  
D&D SEPTIC LLC  
SR 1632 in Wilson County**

Dear Mr. Newsome:

The NC Division of Waste Management has reviewed D&D Septic's LLC application for a yard waste facility. There are a few corrections on the application that are needed prior to your notification being approved:

For item nine you need to eliminate the feedstocks that are not associated with yard waste. Yard waste includes yard trash (leaves, grass, brush trimmings) and also land clearing debris. It is important to remember that with the land clearing debris particle size reduction will be a requirement.

The NC Division of Waste Management has also reviewed D&D Septic's LLC application for a compost facility. There are a few additions and corrections on the application that are needed prior to your demonstration being approved:

A landowner's authorization letter is needed from Newsome Brothers Farms LLC. A FEMA 100 yr floodplain map should also be submitted of the proposed location. The application should also include that waste received and compost distributed will be kept in the site records in tons. Initial measurements can be cubic yards but this will need to be converted to tons. I would also sign and date the document.

If you have any questions in this matter please contact me at (919) 508-8515.

Sincerely,

Michael E. Scott, Soil Scientist  
Composting & Land Application Branch

Enclosures

CC:  
h:\cla\compost\demo\wilson\d&dseptic\lc\let07

401 Oberlin Rd Suite 150  
1646 Mail Service Center  
Raleigh NC 27699-1646  
919-508-8515  
919-733-4810 Fax  
Michael.Scott@ncmail.net

**NC DENR**

# Fax

<b>To:</b> David Newsome	<b>From:</b> Michael Scott
<b>Fax:</b> 919-242-4268	<b>Pages:</b> 2
<b>Phone:</b> 252-206-6802	<b>Date:</b> 3/30/2007
<b>Re:</b> Compost Records	<b>CC:</b>

**Urgent**     **For Review**     **Please Comment**     **Please Reply**     **Please Recycle**

● **Comments:**

David,

Please sign and date the record keeping information and return it to me. This information will be included with your application under item 12.

Item 12 continued:

Records will include:

- 1)The quantity, type and source of waste received.
- 2)The quantity and type of waste processed into compost.
- 3)The quantity and type of compost produced by product classification.
- 4)The quantity and type of compost removed for use or disposal, by product classification, and the market or permitted disposal facility.
- 5) Numbers will be reported in tons.