



Triangle Brick

6523 NC Highway 55
Durham, NC 27713
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Raleigh: (919) 828-2070

Toll Free: 800-672-8547
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7/29/2013

North Carolina Department of Environment and Natural Resources
Division of Waste Management
1646 Mail Service Center,
Raleigh, NC 27699-1646



Dear Mr. Michael Scott,

I am writing to submit an annual report on behalf of Triangle Brick Company for the land application of the limestone by-product that we generate. This is in accordance with the BMP plan that was approved on April 4, 2006 by Mr. Paul S. Crissman and continued approval granted by yourself on June 2, 2009.

Triangle Brick Company has distributed 250 tons of limestone by-product from July 1, 2012 thru June 30, 2013. Mr. Tom McRae has land applied 108 tons of material in the same 12 month period. Please find enclosed waste analysis reports from the quarterly samples taken on 8/10/2012, 11/08/2012, 2/06/2013 and 5/07/2013.

Paul M. Maxwell

Director of Manufacturing,
Wadesboro Plants
Triangle Brick Company

cc. Ricky Merritt
Howard Brown



Diagnostic

Waste Report

Client: Triangle Brick
 Attn: Paul Maxwell
 2960 Hwy 52 North
 Wadesboro, NC 28170
 Anson County

Advisor: David Dycus
 250 Dycus Rd
 Sanford, NC 27330

Sampled:

Received: 08/20/2012

Completed: 08/20/2012

Farm:

[Links to Helpful Information](#)

Sample Information Sample ID: 081012 Waste Code: IOO Description: Indust.-Other Comments:	Nutrient and Other Measurements																																																																				
	<table border="0"> <tr> <td><i>Nitrogen (N) (ppm)</i></td> <td><i>P (ppm)</i></td> <td><i>K (ppm)</i></td> <td><i>Ca (ppm)</i></td> <td><i>Mg (ppm)</i></td> <td><i>S (ppm)</i></td> <td><i>Fe (ppm)</i></td> <td><i>Mn (ppm)</i></td> <td><i>Zn (ppm)</i></td> <td><i>Cu (ppm)</i></td> <td><i>B (ppm)</i></td> <td><i>Na (ppm)</i></td> <td><i>C (ppm)</i></td> <td colspan="2"></td> </tr> <tr> <td>Total N</td> <td>0</td> <td>45.7</td> <td>549</td> <td>241000</td> <td>3860</td> <td>665</td> <td>625</td> <td>50.8</td> <td>202</td> <td>1.98</td> <td>201</td> <td>410</td> <td colspan="2"></td> </tr> </table>														<i>Nitrogen (N) (ppm)</i>	<i>P (ppm)</i>	<i>K (ppm)</i>	<i>Ca (ppm)</i>	<i>Mg (ppm)</i>	<i>S (ppm)</i>	<i>Fe (ppm)</i>	<i>Mn (ppm)</i>	<i>Zn (ppm)</i>	<i>Cu (ppm)</i>	<i>B (ppm)</i>	<i>Na (ppm)</i>	<i>C (ppm)</i>			Total N	0	45.7	549	241000	3860	665	625	50.8	202	1.98	201	410																											
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Application Method Broadcast Soil Incorporated	Estimate of Nutrients Available for First Crop (lb / ton)										Other Elements (lb / ton)									
	<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>
	0	0.13	1.05	289	4.62	0.80	0.75	0.06	0.24	0.00	0.24			0.82	0.00	0.00	0			
0	0.16	1.18	361	5.78	0.99	0.93	0.08	0.30	0.00	0.30			0.82	0.00	0.00	0				

Agronomist's Comments:
 Values of 0.0 indicate nutrients/metals were below the detection limit of our instrument.
 Completed: August 28, 2012



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
 - Steve Troxler, Commissioner of Agriculture.



Diagnostic Waste Report

Client: Triangle Brick
Attn: Paul Maxwell
2960 Hwy 52 North
Wadesboro, NC 28170
Anson County

Advisor: David Dycus
250 Dycus Rd
Sanford, NC 27330

Sampled:

Received: 11/19/2012

Completed: 11/20/2012

Farm:

[Links to Helpful Information](#)

Sample Information	Nutrient and Other Measurements																			
	Nitrogen (N) (ppm)	P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)							
Sample ID: 110812	Total N	399	34.0	478	244000	4060	779	651	58.1	174	2.50	187	314							
Waste Code: IOO	Total Kjeldahl N																			
Description: Indust.-Other	Inorganic N	pH	DM (%)	SS (10 ⁻⁵ S/cm)	EC (mS/cm)	CCE (%)	ALE(tons)	C:N												
Comments:	NH ₄ -N	7.44	99.7			82.5	1.09													
	NO ₃ -N																			
	Organic N	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)								
	Urea	1.25	0.33	0																
Application Method	Estimate of Nutrients Available for First Crop (lb / ton)										Other Elements (lb / ton)									
	N	P ₂ O ₅	K ₂ O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
	Broadcast	0.24	0.09	0.92	292	4.86	0.93	0.78	0.07	0.21	T	0.22		0.63	T	T	T			
Soil Incorporated	0.32	0.12	1.03	366	6.07	1.17	0.97	0.09	0.26	T	0.28		0.63	T	T	T				

Agronomist's Comments:

The waste product contains a large amount of boron. Application rate should be limited by boron tolerance of the crop. For field crops, broadcast no more than 5 lbs boron per acre. Aaron Pettit 11/26/2012 9:08 AM



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

*Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.*



Diagnostic

Waste Report

Client: Triangle Brick
 Attn: Paul Maxwell
 2960 Hwy 52 North
 Wadesboro, NC 28170
 Anson County

Advisor: David Dycus
 250 Dycus Rd
 Sanford, NC 27330

Sampled: 02/06/2013

Received: 02/11/2013

Completed: 02/12/2013

Farm:

[Links to Helpful Information](#)

Sample Information	Nutrient and Other Measurements												
	Nitrogen (N) (ppm)	P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
Sample ID: 020613	Total N	114	65.1	668	246000	4040	675	605	50.4	362	3.21	115	296
Waste Code: IOO	Total Kjeldahl N												
Description: Indust.-Other	Inorganic N	pH	DM (%)	SS (10 ⁻⁵ S/cm)	EC (mS/cm)	CCE (%)	ALE(tons)	C:N					
Comments:	NH ₄ -N	7.60	99.7			97.5	0.93						
	NO ₃ -N												
	Organic N	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)	
	Urea	1.31	0.33	0									

Application Method	Estimate of Nutrients Available for First Crop (lb / ton)										Other Elements (lb / ton)									
	N	P ₂ O ₅	K ₂ O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast	0.07	0.18	1.28	295	4.84	0.81	0.72	0.06	0.43	T	0.14		0.59	T	T	T				
Injection	0.09	0.22	1.44	368	6.04	1.01	0.91	0.08	0.54	T	0.17		0.59	T	T	T				

Agronomist's Comments:

* *****NOTE: Values of 0.0 indicate nutrients/metals were below detection limits.***** Brenda R. Cleveland 2/14/2013 10:52 AM



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
 - Steve Troxler, Commissioner of Agriculture.



Diagnostic

Waste Report

Client: Triangle Brick
 Attn: Paul Maxwell
 2960 Hwy 52 North
 Wadesboro, NC 28170
 Anson County

Advisor: David Dycus
 250 Dycus Rd
 Sanford, NC 27330

Sampled:

Received: 05/09/2013

Completed: 05/10/2013

Farm:

[Links to Helpful Information](#)

Sample Information	Nutrient and Other Measurements												
	Nitrogen (N) (ppm)	P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
Sample ID: 050713	Total N	90.4	54.8	398	226000	3470	623	603	44.3	147	2.37	118	300
Waste Code: IOO	Total Kjeldahl N												
Description: Indust.-Other	Inorganic N	pH	DM (%)	SS (10 ⁻⁵ S/cm)	EC (mS/cm)	CCE (%)	ALE(tons)	C:N					
Comments:	NH ₄ -N	7.56	99.7			91.3	0.99						
	NO ₃ -N												
	Organic N	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)	
	Urea	1.21	0.19	0									

Application Method	Estimate of Nutrients Available for First Crop (lb / ton)										Other Elements (lb / ton)									
	N	P ₂ O ₅	K ₂ O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast	0.05	0.15	0.76	270	4.15	0.75	0.72	0.05	0.18	T	0.14		0.60	T	T	T				
Soil Incorporated	0.07	0.19	0.86	338	5.19	0.93	0.90	0.07	0.22	T	0.18		0.60	T	T	T				

Agronomist's Comments:

Brenda R. Cleveland 5/16/2013 4:20 PM



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Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
 - Steve Troxler, Commissioner of Agriculture.