ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

TEL: 831-724-5422
FAX: 831-724-3188
www.compostlab.com

Account #: 3100920-1/2-7372
Group: Nov.13 A #6
Reporting Date: November 15, 2013

Brooks Contractor
1195 Beal Rd.
Goldston, NC 27252
Attn: Amy Brooks

Date Received: 31 Oct. 13
Sample Identification: BR-1
Sample ID #: 3100920 - 1/2

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	0.94	0.59	%
Ammonia (NH_4-N):	760	470	mg/kg
Nitrate (NO_3-N):	54	34	mg/kg
Org. Nitrogen (Org.-N):	0.86	0.53	%
Phosphorus (as P_2O_5):	0.66	0.41	%
Phosphorus (P):	2900	1800	mg/kg
Potassium (as K_2O):	0.39	0.24	%
Potassium (K):	3300	2000	mg/kg
Calcium (Ca):	13	8.3	%
Magnesium (Mg):	0.30	0.19	%
Sulfate (SO_4-S):	380	240	mg/kg
Boron (Total B):	9.6	6.0	mg/kg
Moisture:	0	37.9	%
Sodium (Na):	0.16	0.097	%
Chloride (Cl):	0.11	0.067	%
pH Value:	NA	7.87	unit
Bulk Density :	34	55	lb/cu ft
Carbonates ($CaCO_3$):	650	400	lb/ton
Conductivity (EC5):	3.0	NA	mmhos/cm
Organic Matter:	31.7	19.7	%
Organic Carbon:	15.0	9.2	%
Ash:	68.3	42.4	%
C/N Ratio	16	16	ratio
AgIndex	7	7	ratio

Stability Indicator: CO2 Evolution	Respirometery	Biologically Available C
mg CO_2-C/g OM/day	1.2	1.3
mg CO_2-C/g TS/day	0.39	0.40
Stability Rating	*very stable*	*very stable*

Maturity Indicator: Cucumber Bioassay		
Compost:Vermiculite(v:v)	1:1	1:3
Emergence (%)	100	100
Seedling Vigor (%)	82	100
Description of Plants	*healthy*	*healthy*

Pathogens	Results	Units	Rating
Fecal Coliform	400	MPN/g	*pass*
Salmonella	< 3	MPN/4g	*pass*

Date Tested: 31 Oct. 13

Inerts	% by weight
Plastic	< 0.5
Glass	< 0.5
Metal	< 0.5
Sharps	ND

Metals	Dry wt.	EPA Limit	units
Aluminum (Al)	6400	-	mg/kg
Arsenic (As):	2.8	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	20	1200	mg/kg
Cobalt (Co)	3.4	-	mg/kg
Copper (Cu):	42	1500	mg/kg
Iron (Fe):	13000	-	mg/kg
Lead (Pb):	9.6	300	mg/kg
Manganese (Mn):	320	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.1	75	mg/kg
Nickel (Ni):	7.0	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size & Volume Distribution

MM	% by weight	% by volume	BD g/cc
> 50	0.0	0.0	0.00
25 to 50	0.0	0.0	0.00
16 to 25	0.0	0.0	0.00
9.5 to 16	0.0	0.0	0.00
6.3 to 9.5	4.6	4.2	0.72
4.0 to 6.3	5.3	7.5	0.46
2.0 to 4.0	18.4	25.0	0.48
< 2.0	71.7	63.3	0.74

Bulk Density Description:<.35 Light Materials, .35-.60 medium weight materials, >.60 Heavy Materials

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

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Account #: 3100920-2/2-7372
Group: Nov.13 A #7
Reporting Date: November 15, 2013

Brooks Contractor
1195 Beal Rd.
Goldston, NC 27252
Attn: Amy Brooks

Date Received: 31 Oct. 13
Sample Identification: BR-1ENOP
Sample ID #: 3100920 - 2/2

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	0.97	0.71	%
Ammonia (NH_4-N):	74	54	mg/kg
Nitrate (NO_3-N):	510	370	mg/kg
Org. Nitrogen (Org.-N):	0.91	0.67	%
Phosphorus (as P_2O_5):	0.60	0.45	%
Phosphorus (P):	2700	2000	mg/kg
Potassium (as K_2O):	0.17	0.13	%
Potassium (K):	1400	1100	mg/kg
Calcium (Ca):	27	20	%
Magnesium (Mg):	0.34	0.25	%
Sulfate (SO_4-S):	280	200	mg/kg
Boron (Total B):	6.5	4.8	mg/kg
Moisture:	0	26.2	%
Sodium (Na):	0.12	0.088	%
Chloride (Cl):	0.055	0.041	%
pH Value:	NA	7.25	unit
Bulk Density :	46	63	lb/cu ft
Carbonates ($CaCO_3$):	1300	960	lb/ton
Conductivity (EC5):	2.1	NA	mmhos/cm
Organic Matter:	18.6	13.7	%
Organic Carbon:	8.2	6.0	%
Ash:	81.4	60.1	%
C/N Ratio	8.5	8.5	ratio
AgIndex	10	10	ratio

Stability Indicator: CO2 Evolution	Respirometery	Biologically Available C
mg CO_2-C/g OM/day	1.4	1.5
mg CO_2-C/g TS/day	0.26	0.28
Stability Rating	*very stable*	*very stable*

Maturity Indicator: Cucumber Bioassay		
Compost:Vermiculite(v:v)	1:1	1:3
Emergence (%)	100	100
Seedling Vigor (%)	100	100
Description of Plants	*healthy*	*healthy*

Pathogens	Results	Units	Rating
Fecal Coliform	33	MPN/g	*pass*
Salmonella	< 3	MPN/4g	*pass*

Date Tested: 31 Oct. 13

Inerts	% by weight
Plastic	< 0.5
Glass	< 0.5
Metal	< 0.5
Sharps	ND

Metals	Dry wt.	EPA Limit	units
Aluminum (Al)	2200	-	mg/kg
Arsenic (As):	1.2	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	6.1	1200	mg/kg
Cobalt (Co)	1.2	-	mg/kg
Copper (Cu):	21	1500	mg/kg
Iron (Fe):	4200	-	mg/kg
Lead (Pb):	3.4	300	mg/kg
Manganese (Mn):	150	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	< 1.0	75	mg/kg
Nickel (Ni):	2.5	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	39	2800	mg/kg

Size & Volume Distribution MM	% by weight	% by volume	BD g/cc
> 50	0.0	0.0	0.00
25 to 50	0.0	0.0	0.00
16 to 25	0.0	0.0	0.00
9.5 to 16	1.7	1.7	0.83
6.3 to 9.5	1.9	2.8	0.59
4.0 to 6.3	3.7	5.2	0.61
2.0 to 4.0	12.5	17.4	0.63
< 2.0	80.3	72.9	0.96

Bulk Density Description:<.35 Light Materials, .35-.60 medium weight materials, >.60 Heavy Materials

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: 08/21/2013 Received: 08/22/2013 Completed: 08/26/2013 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR1A
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	12700	2280	4140	93100	2190	1950	5460	255	79.8	20.2	7.45	1590	180000
Total Kjeldahl N													
Inorganic N	328												
NH4-N	82.9												
NO3-N	245												
Organic N	12400												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.05	60.5	422	4.22	26.5	5.62	14.1 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	6.16	3.79	4.81	67.6	1.59	1.42	3.96	0.18	0.06	0.01	0.01	
Soil Incorporated	7.70	4.74	5.41	84.5	1.99	1.77	4.95	0.23	0.07	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.92						
Soil Incorporated		1.92						

Agronomist's Comments:

Aaron Pettit 8/26/2013 3:57 PM

North Carolina
Tobacco Trust Fund Commission

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.

Dean Brooks

Sample Information

Sample ID: BR-4A
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)*
Total N	2830	971	1380	35100	1150	761	9140	264	38.8	10.6	2.57	622	49400
Total Kjeldahl N													
Inorganic N	117												
NH_4-N	31.0												
NO_3-N	86.3												
Organic N	2710												
Urea													

pH	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
7.12	80.7	162	1.62			17.5 : 1

Ni (ppm)	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*
Broadcast	1.82	2.15	2.14	34.0	1.12	0.74	8.85	0.26	0.04	0.01	T	
Soil Incorporated	2.28	2.69	2.41	42.5	1.39	0.92	11.1	0.32	0.05	0.01	T	

Other Elements (lb / ton)

Cl	*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*
	1.00						
	1.00						

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
*

Dean Brooks

Sample Information

Sample ID: BR1HEC
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)*
Total N	18200	3020	2760	165000	2590	2600	4840	180	56.3	15.7	4.34	1810	192000
Total Kjeldahl N													
Inorganic N	637												
NH_4-N	158												
NO_3-N	479												
Organic N	17600												
Urea													

pH	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
6.72	71.4	395	3.95	45.3	2.79	10.5 : 1

Ni (ppm)	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*
2.31	0.26	2.63								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*
Broadcast	10.4	5.92	3.78	142	2.22	2.23	4.15	0.15	0.05	0.01	T	
Soil Incorporated	13.0	7.40	4.26	177	2.77	2.78	5.18	0.19	0.06	0.02	T	

Other Elements (lb / ton)

Cl	*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*
	2.58	T	T	T			
	2.58	T	T	T			

Agronomist's Comments:

*

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 01/31/2014 Completed: 02/06/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1A
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	14000	2610	2620	136000	2870	2140	9410	303	118	22.1	9.40	1380	219000
Total Kjeldahl N													
Inorganic N	190												
NH4-N	73.3												
NO3-N	117												
Organic N	13800												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.11	65.2	262	2.62	33.8	4.09	15.6 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
6.48	0.54	11.2								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	9.14	5.85	3.69	133	2.81	2.09	9.20	0.30	0.12	0.02	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	1.80	0.01	T	0.01			

Agronomist's Comments:

Aaron Pettit 2/6/2014 4:19 PM

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: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: 03/06/2014 Received: 03/06/2014 Completed: 03/12/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	14900	3460	3220	142000	3160	2860	10300	306	131	27.2	7.40	1630	200000
Total Kjeldahl N													
Inorganic N	165												
NH_4-N	113												
NO_3-N	51.9												
Organic N	14700												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.79	69.2	266	2.66			13.4 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	8.23	6.58	4.28	118	2.62	2.38	8.53	0.25	0.11	0.02	0.01	
Soil Incorporated	10.3	8.22	4.82	148	3.28	2.97	10.7	0.32	0.14	0.03	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		2.26						
Soil Incorporated		2.26						

Agronomist's Comments:

Aaron Pettit 3/12/2014 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.

Dean Brooks

Sample Information

Sample ID: BR-1B
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	14600	3010	2360	151000	2990	2340	9960	292	110	23.4	6.15	1300	198000
Total Kjeldahl N													
Inorganic N	0.50												
NH_4-N	0.10												
NO_3-N	0.40												
Organic N	14600												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.07	65.9	325	3.25	35.3	3.87	13.5 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
7.47	0.58	9.38								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	7.72	5.46	2.99	120	2.37	1.85	7.88	0.23	0.09	0.02	T	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	1.72	0.01	T	0.01			

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out.
*

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 12/20/2013 Completed: 01/03/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1NE
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	12300	2480	4530	14700	3080	1910	27200	476	198	31.5	10.0	1570	205000
Total Kjeldahl N													
Inorganic N	67.4												
NH_4-N	20.4												
NO_3-N	46.9												
Organic N	12200												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.21	50.9	296	2.96			16.7 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
9.25	1.39	24.8								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	5.00	3.46	4.42	8.96	1.88	1.16	16.6	0.29	0.12	0.02	0.01	
Soil Incorporated	6.25	4.33	4.97	11.2	2.35	1.45	20.8	0.36	0.15	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.60	0.01	T	0.03			
Soil Incorporated		1.60	0.01	T	0.03			

Agronomist's Comments:

Brenda R. Cleveland 1/3/2014 11:58 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.

Sample Information

Sample ID: BR-1
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	11700	2900	4040	316000	3320	2370	21600	353	129	24.6	7.88	1400	191000
Total Kjeldahl N													
Inorganic N	166												
NH_4-N	38.4												
NO_3-N	128												
Organic N	11600												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.62	64.5	321	3.21			16.3 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
6.04	0.49	8.97								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	6.05	5.14	5.01	245	2.57	1.83	16.7	0.27	0.10	0.02	0.01	
Soil Incorporated	7.57	6.43	5.63	306	3.22	2.29	20.9	0.34	0.13	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.80	0.01	T	0.01			
Soil Incorporated		1.80	0.01	T	0.01			

Sample Information

Sample ID: BR1NEA
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	10900	2630	4740	156000	3160	2170	28400	497	222	33.7	11.2	1650	182000
Total Kjeldahl N													
Inorganic N	358												
NH_4-N	78.8												
NO_3-N	279												
Organic N	10600												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.08	51.0	325	3.25			16.7 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
7.89	0.59	23.1								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	4.46	3.68	4.64	95.7	1.94	1.33	17.4	0.30	0.14	0.02	0.01	
Soil Incorporated	5.57	4.60	5.22	120	2.42	1.66	21.7	0.38	0.17	0.03	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.68	0.01	T	0.02			
Soil Incorporated		1.68	0.01	T	0.02			

Predictive

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 05/27/2014 Completed: 06/04/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	10100	2760	3350	146000	2860	2370	9650	335	120	22.5	13.7	1350	173000
Total Kjeldahl N													
Inorganic N	164												
NH_4-N	36.4												
NO_3-N	128												
Organic N	9960												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.38	62.8	355	3.55			17.1 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	6.36	5.96	4.55	138	2.69	2.24	9.09	0.32	0.11	0.02	0.01	
Broadcast	5.09	4.77	4.04	110	2.15	1.79	7.27	0.25	0.09	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Soil Incorporated		1.69						
Broadcast		1.69						

Agronomist's Comments:

Aaron Pettit 6/3/2014 3:23 PM

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.

Sample Information

Sample ID: BR-2
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3470	752	829	27200	728	607	3960	88.2	32.3	6.60	3.92	390	46900
Total Kjeldahl N													
Inorganic N	240												
NH_4-N	8.31												
NO_3-N	232												
Organic N	3230												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.32	76.2	301	3.01			13.5 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	2.64	1.97	1.36	31.1	0.83	0.69	4.53	0.10	0.04	0.01	T	
Broadcast	2.11	1.57	1.21	24.9	0.67	0.55	3.62	0.08	0.03	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Soil Incorporated		0.59						
Broadcast		0.59						

Sample Information

Sample ID: BR-4
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	2630	957	1110	51100	1120	760	9410	199	39.5	10.3	5.62	522	57400
Total Kjeldahl N													
Inorganic N	174												
NH_4-N	39.6												
NO_3-N	134												
Organic N	2450												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.36	80.3	203	2.03			21.9 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	2.11	2.64	1.93	61.5	1.35	0.92	11.3	0.24	0.05	0.01	0.01	
Broadcast	1.69	2.11	1.71	49.2	1.08	0.73	9.07	0.19	0.04	0.01	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Soil Incorporated		0.84						
Broadcast		0.84						

Sample Information

Sample ID: BR-1HE
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	10600	3350	2640	229000	3060	2550	6640	195	73.1	18.0	9.61	1240	159000
Total Kjeldahl N													
Inorganic N	348												
NH4-N	202												
NO3-N	147												
Organic N	10200												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.73	76.0	362	3.62			15.0 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	8.04	8.75	4.33	261	3.48	2.91	7.57	0.22	0.08	0.02	0.01	
Broadcast	6.44	7.00	3.85	209	2.79	2.33	6.05	0.18	0.07	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Soil Incorporated		1.89						
Broadcast		1.89						

Sample Information

Sample ID: BR1PM
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	8110	1580	2780	41100	2110	1310	10700	402	150	24.5	15.2	1270	245000
Total Kjeldahl N													
Inorganic N	146												
NH4-N	18.6												
NO3-N	127												
Organic N	7970												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.48	57.9	165	1.65			30.2 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Soil Incorporated	4.70	3.15	3.47	35.7	1.83	1.13	9.30	0.35	0.13	0.02	0.01	
Broadcast	3.76	2.52	3.09	28.6	1.46	0.91	7.44	0.28	0.10	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Soil Incorporated		1.47						
Broadcast		1.47						

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 04/29/2014 Completed: 05/02/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	13800	1150	1030	71100	1300	884	9950	196	43.4	10.8	3.09	584	241000
Total Kjeldahl N													
Inorganic N	312												
NH_4-N	164												
NO_3-N	148												
Organic N	13500												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.02	59.6	327	3.27			17.5 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Application Method

Estimate of Nutrients Available for First Crop (lb / ton)

N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30 The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out. * Aaron Pettit 5/2/2014 4:25 PM

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.

Dean Brooks

Sample Information

Sample ID: BR-4
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	4850	1160	1150	58500	1300	953	10700	214	117	12.2	3.20	598	67100
Total Kjeldahl N													
Inorganic N	270												
NH_4-N	69.2												
NO_3-N	201												
Organic N	4570												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.01	78.8	248	2.48			13.8 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Application Method

Estimate of Nutrients Available for First Crop (lb / ton)

N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out.
*

Understanding the Waste Report * - *additional information:* www.ncagr.gov/agronomi/pdffiles/uwaste.pdf & www.ncagr.gov/agronomi/pdffiles/wasteguide.pdf

Nutrient concentrations and other data on this report are provided so that waste materials can be applied at agronomic rates, thereby supplementing or reducing fertilizer application and preventing environmental contamination. In reading the **Laboratory Results** section, remember that materials with < 15% dry matter (generally liquids) are analyzed as received; all other wastes are dried first. Values in the **Estimate of Nutrients Available for First Crop** section are based on the type of waste and method of application you specify and reflect the fact that only 40-60% of the nitrogen and 70-100% of other nutrients become available within one year of application. The remainder *may or may not* ever become available.

* **ppm** = parts per million; **S** = siemens; **mS** = millisiemens; **T** = trace (<0.005 lb/unit); **EC** = electrical conductivity; **CCE** = calcium carbonate equivalence; **ALE** = agricultural lime equivalence; **pH** = acidity or basicity; **DM%** = % dry matter [for semi-solid and solid waste samples, this value facilitates conversion of dry-basis concentrations (ppm) back to wet-basis of original sample]; **C:N ratio** = carbon:nitrogen ratio.

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 03/24/2014 Completed: 04/02/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	13700	3020	3230	146000	3010	2460	7900	270	96.7	21.8	7.42	1540	213000
Total Kjeldahl N													
Inorganic N	337												
NH_4-N	216												
NO_3-N	121												
Organic N	13300												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.17	67.4	0	0.00			15.6 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	7.37	5.59	4.17	118	2.44	1.99	6.39	0.22	0.08	0.02	0.01	
Soil Incorporated	9.21	6.99	4.70	148	3.05	2.49	7.98	0.27	0.10	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		2.08						
Soil Incorporated		2.08						

Agronomist's Comments:

Brenda R. Cleveland 3/31/2014 9:58 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.

Sample Information

Sample ID: BR-4
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3780	1020	992	56400	1190	904	8950	124	30.7	10.2	1.87	608	62300
Total Kjeldahl N													
Inorganic N	210												
NH_4-N	177												
NO_3-N	33.0												
Organic N	3570												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.23	83.1	0	0.00			16.5 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.51	2.32	1.58	56.2	1.18	0.90	8.93	0.12	0.03	0.01	T	
Soil Incorporated	3.14	2.90	1.78	70.3	1.48	1.13	11.2	0.15	0.04	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.01						
Soil Incorporated		1.01						

Sample Information

Sample ID: BR1PM
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	11000	1890	3120	40500	2340	1660	10200	429	153	27.1	11.2	1580	268000
Total Kjeldahl N													
Inorganic N	137												
NH_4-N	29.7												
NO_3-N	108												
Organic N	10800												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.86	59.7	0	0.00			24.4 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	5.25	3.11	3.57	29.0	1.68	1.19	7.32	0.31	0.11	0.02	0.01	
Soil Incorporated	6.56	3.88	4.02	36.3	2.10	1.49	9.15	0.38	0.14	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.89						
Soil Incorporated		1.89						

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: 03/06/2014 Received: 03/06/2014 Completed: 03/12/2014 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	14900	3460	3220	142000	3160	2860	10300	306	131	27.2	7.40	1630	200000
Total Kjeldahl N													
Inorganic N	165												
NH_4-N	113												
NO_3-N	51.9												
Organic N	14700												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.79	69.2	266	2.66			13.4 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	8.23	6.58	4.28	118	2.62	2.38	8.53	0.25	0.11	0.02	0.01	
Soil Incorporated	10.3	8.22	4.82	148	3.28	2.97	10.7	0.32	0.14	0.03	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		2.26						
Soil Incorporated		2.26						

Agronomist's Comments:

Aaron Pettit 3/12/2014 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.

Dean Brooks

Sample Information

Sample ID: BR1A
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	17200	3780	3340	123000	3120	3050	9650	317	131	27.9	7.93	1700	232000
Total Kjeldahl N													
Inorganic N	140												
NH_4-N	95.5												
NO_3-N	44.3												
Organic N	17000												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.70	69.0	268	2.68			13.5 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	9.47	7.17	4.43	102	2.59	2.53	7.99	0.26	0.11	0.02	0.01	
Soil Incorporated	11.8	8.96	4.98	127	3.23	3.16	9.99	0.33	0.14	0.03	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	2.34						
	2.34						

Sample Information

Sample ID: BR4
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3840	1190	1120	45500	1200	958	12000	187	40.4	12.3	1.70	617	47400
Total Kjeldahl N													
Inorganic N	200												
NH_4-N	93.5												
NO_3-N	106												
Organic N	3640												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.86	81.4	184	1.84			12.4 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.50	2.66	1.75	44.5	1.17	0.94	11.7	0.18	0.04	0.01	T	
Soil Incorporated	3.12	3.32	1.97	55.6	1.46	1.17	14.6	0.23	0.05	0.02	T	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	1.00						
	1.00						

Dean Brooks

Sample Information

Sample ID: BR4A
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3780	934	946	42400	1150	787	10800	194	34.0	10.9	1.30	547	51500
Total Kjeldahl N													
Inorganic N	226												
NH_4-N	97.2												
NO_3-N	128												
Organic N	3560												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.79	81.6	180	1.80			13.6 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.47	2.09	1.48	41.5	1.12	0.77	10.6	0.19	0.03	0.01	T	
Soil Incorporated	3.09	2.62	1.67	51.9	1.40	0.96	13.3	0.24	0.04	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		0.89						
Soil Incorporated		0.89						

Sample Information

Sample ID: BRPM1
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	9480	1660	3120	34900	2120	1400	9170	370	140	24.3	9.84	1430	222000
Total Kjeldahl N													
Inorganic N	42.8												
NH_4-N	21.9												
NO_3-N	20.9												
Organic N	9440												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.69	56.9	141	1.41			23.4 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
9.99	0.65	19.9								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	4.32	2.60	3.42	23.9	1.45	0.96	6.27	0.25	0.10	0.02	0.01	
Soil Incorporated	5.40	3.25	3.84	29.8	1.81	1.20	7.84	0.32	0.12	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.63	0.01	T	0.02			
Soil Incorporated		1.63	0.01	T	0.02			

Predictive

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: Received: 08/27/2013 Completed: 09/02/2013 Farm:

Links to Helpful Information

Sample Information

Sample ID: LEAF
Waste Code: NCW
Description:
Non-Composted - Other
Comments:

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)
Total N	12300	1270	3590	11700	2950	934	6090	935	66.3	17.6	19.7	277	338000
Total Kjeldahl N													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
6.28	43.2	78	0.78			27.5 : 1

Inorganic N
NH_4-N
NO_3-N

Organic N
Urea

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Application Method

Estimate of Nutrients Available for First Crop (lb / ton)

N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30

North Carolina
Tobacco Trust Fund Commission

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.

Dean Brooks

Sample Information

Sample ID: HORSE
Waste Code: NCW
Description:
Non-Composted - Other
Comments:

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)
Total N	5070	624	3770	3090	888	1000	1640	139	835	8.45	4.08	1860	459000
Total Kjeldahl N													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
5.76	62.9	130	1.30			90.5 : 1

Inorganic N
NH_4-N
NO_3-N

Organic N
Urea

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Application Method

Estimate of Nutrients Available for First Crop (lb / ton)

N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30

Understanding the Waste Report * - *additional information:* www.ncagr.gov/agronomi/pdffiles/uwaste.pdf & www.ncagr.gov/agronomi/pdffiles/wasteguide.pdf

Nutrient concentrations and other data on this report are provided so that waste materials can be applied at agronomic rates, thereby supplementing or reducing fertilizer application and preventing environmental contamination. In reading the **Laboratory Results** section, remember that materials with < 15% dry matter (generally liquids) are analyzed as received; all other wastes are dried first. Values in the **Estimate of Nutrients Available for First Crop** section are based on the type of waste and method of application you specify and reflect the fact that only 40-60% of the nitrogen and 70-100% of other nutrients become available within one year of application. The remainder *may or may not* ever become available.

* **ppm** = parts per million; **S** = siemens; **mS** = millisiemens; **T** = trace (<0.005 lb/unit); **EC** = electrical conductivity; **CCE** = calcium carbonate equivalence; **ALE** = agricultural lime equivalence; **pH** = acidity or basicity; **DM%** = % dry matter [for semi-solid and solid waste samples, this value facilitates conversion of dry-basis concentrations (ppm) back to wet-basis of original sample]; **C:N ratio** = carbon:nitrogen ratio.

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: 08/21/2013 Received: 08/22/2013 Completed: 08/26/2013 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR1A
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	12700	2280	4140	93100	2190	1950	5460	255	79.8	20.2	7.45	1590	180000
Total Kjeldahl N													
Inorganic N	328												
NH_4-N	82.9												
NO_3-N	245												
Organic N	12400												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.05	60.5	422	4.22	26.5	5.62	14.1 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	6.16	3.79	4.81	67.6	1.59	1.42	3.96	0.18	0.06	0.01	0.01	
Soil Incorporated	7.70	4.74	5.41	84.5	1.99	1.77	4.95	0.23	0.07	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.92						
Soil Incorporated		1.92						

Agronomist's Comments:

Aaron Pettit 8/26/2013 3:57 PM

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.

Dean Brooks

Sample Information

Sample ID: BR1B
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	12900	2300	4140	107000	2400	1870	5510	249	73.5	19.1	7.27	1620	180000
Total Kjeldahl N													
Inorganic N	380												
NH_4-N	79.2												
NO_3-N	301												
Organic N	12500												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.06	59.6	418	4.18	26.8	5.64	14.0 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	6.13	3.77	4.74	76.9	1.71	1.34	3.94	0.18	0.05	0.01	0.01	
Soil Incorporated	7.66	4.71	5.33	96.1	2.14	1.67	4.93	0.22	0.07	0.02	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	1.94						
	1.94						

Agronomist's Comments:

*
Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out.
*

Dean Brooks

Sample Information

Sample ID: BR4A
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	4620	846	1120	37000	843	612	3470	180	23.5	7.63	1.88	578	53600
Total Kjeldahl N													
Inorganic N	197												
NH_4-N	67.7												
NO_3-N	129												
Organic N	4420												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.53	80.8	211	2.11			11.6 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.99	1.88	1.74	35.9	0.82	0.59	3.36	0.17	0.02	0.01	T	
Soil Incorporated	3.73	2.35	1.95	44.9	1.02	0.74	4.20	0.22	0.03	0.01	T	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	0.93						
	0.93						

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
*

Dean Brooks

Sample Information

Sample ID: BR4B
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3850	838	1220	34400	1050	662	7010	204	30.0	9.95	2.04	591	52500
Total Kjeldahl N													
Inorganic N	281												
NH_4-N	150												
NO_3-N	131												
Organic N	3560												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.45	80.3	207	2.07			13.7 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.47	1.85	1.87	33.1	1.02	0.64	6.75	0.20	0.03	0.01	T	
Soil Incorporated	3.09	2.31	2.11	41.4	1.27	0.80	8.44	0.25	0.04	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		0.95						
Soil Incorporated		0.95						

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
*

Dean Brooks

Sample Information

Sample ID: BR1NOP
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	19900	2050	5240	30900	1800	1640	6100	356	56.1	23.3	11.4	929	226000
Total Kjeldahl N													
Inorganic N	585												
NH_4-N	27.6												
NO_3-N	558												
Organic N	19400												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.03	54.6	340	3.40			11.3 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	8.70	3.07	5.49	20.2	1.18	1.08	3.99	0.23	0.04	0.02	0.01	
Soil Incorporated	10.9	3.83	6.17	25.3	1.47	1.34	4.99	0.29	0.05	0.02	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.01						
Soil Incorporated		1.01						

Agronomist's Comments:

*
Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out.
*

Diagnostic

Waste Report

Client: Dean Brooks
1195 Beal Rd
Goldston, NC 27252
Chatham County

Advisor: ,

Sampled: 11/19/2013 Received: 11/20/2013 Completed: 12/12/2013 Farm:

Links to Helpful Information

Sample Information

Sample ID: BR-1
Waste Code: FCW
Description: Composted Waste - Other
Comments:

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)
Total N	13500	2850	4400	117000	2910	2270	12100	330	152	26.7	7.83	1580	227000
Total Kjeldahl N													
Inorganic N	240												
NH_4-N	124												
NO_3-N	116												
Organic N	13200												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.29	65.2	215	2.15	28.8	4.80	16.8 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	7.03	5.11	5.50	91.6	2.28	1.78	9.46	0.26	0.12	0.02	0.01	
Soil Incorporated	8.78	6.38	6.18	115	2.85	2.22	11.8	0.32	0.15	0.03	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		2.06						
Soil Incorporated		2.06						

Agronomist's Comments:

* Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30 * Brenda R. Cleveland 11/27/2013 3:59 PM

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.

Sample Information

Sample ID: BR-1F
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	13900	2720	3680	129000	2520	2140	9130	240	110	20.8	5.84	1450	202000
Total Kjeldahl N													
Inorganic N	265												
NH_4-N	152												
NO_3-N	113												
Organic N	13600												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.21	73.0	269	2.69	36.0	3.43	14.6 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	8.11	5.46	5.15	113	2.21	1.87	7.99	0.21	0.10	0.02	0.01	
Soil Incorporated	10.1	6.82	5.80	141	2.76	2.34	9.99	0.26	0.12	0.02	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Al	Se	Li
	2.12						
	2.12						

Agronomist's Comments:

*
Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
The electrical conductivity is high in this sample. If using this material in a container substrate mix, take this property into consideration. High EC can indicate good fertilizer value. High EC can also lead to root damage especially when the media is allowed to dry out.
*

Dean Brooks

Sample Information

Sample ID: BR-2
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	5730	1060	1330	32900	944	852	5410	106	44.7	9.83	1.94	681	84500
Total Kjeldahl N													
Inorganic N	230												
NH_4-N	38.7												
NO_3-N	192												
Organic N	5500												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.50	78.8	195	1.95			14.7 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	3.61	2.28	2.02	31.1	0.89	0.81	5.11	0.10	0.04	0.01	T	
Soil Incorporated	4.51	2.85	2.27	38.8	1.12	1.01	6.39	0.13	0.05	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		1.07						
Soil Incorporated		1.07						

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
*

Dean Brooks

Sample Information

Sample ID: BR-4
Waste Code: FCW
Description:
Composted Waste - Other
Comments:

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)
Total N	3310	640	924	20000	803	533	7660	204	32.8	8.78	0.76	448	47000
Total Kjeldahl N													
Inorganic N	223												
NH_4-N	170												
NO_3-N	53.6												
Organic N	3090												
Urea													

pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
7.34	83.2	136	1.36			14.2 : 1

Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	2.21	1.46	1.48	20.0	0.80	0.53	7.65	0.20	0.03	0.01	T	
Soil Incorporated	2.76	1.83	1.66	25.0	1.00	0.66	9.56	0.25	0.04	0.01	T	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		0.75						
Soil Incorporated		0.75						

Agronomist's Comments:

Ideal C:N depends on the materials used. Generally the ideal C:N ratio ranges from 20-30
*