Analytical Results

STATESVILLE ANALYTICAL

Sunburst Trout Co.
128 Raceway Place
Canton NC 28716

Entered 10/18/2011
Reported: 10/19/2011

For:

Sample ID	Parameter	Cust ID	Result	Units	Method	Date Analyzed	Analyst
111018-10.1	% Solids	Bin1	81.7	%	SM2540B	10/18/11	CL
111018-10.1	Fecal Coliform MTF	Bin1	<2	MPN/g	SM9221CE	10/18/11	CL
111018-10.2	% Solids	Bin2	75.7	%	SM2540B	10/18/11	CL
111018-10.2	Fecal Coliform MTF	Bin2	<2	MPN/g	SM9221CE	10/18/11	CL
111018-10.3	% Solids	Bin3	71.4	%	SM2540B	10/18/11	CL
111018-10.3	Fecal Coliform MTF	Bin3	<2	MPN/g	SM9221CE	10/18/11	CL

Respectfully submitted,

Dena Myers

Dena Myers
NC Cert #440,
NCDW Cert #37755,
EPA NC00909

NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY12-W002719

Diagnostic

Waste Report

Client: Sunburst Trout Company
128 Raceway Pl.
Canton, NC 28716

Advisor: USDA-NRCS-Haywood
589 Racoon Rd. Suite 246
Waynesville, NC 287863217

County: Haywood

Links to Helpful Information

Sampled: | Received: 10/19/2011 | Completed: 10/21/2011 | Farm:

Sample Information

Sample ID: 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	40000	12000	5670	25200	1380	3450	3740	124	216	14.2	11.8	2620	467000
Total Kjeldahl N													

Inorganic N	pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
NH_4-N	5.34	82.0					11.7 : 1
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	2.50	0.54	1.50								

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	26.2	27.0	8.93	24.8	1.36	3.40	3.68	0.12	0.21	0.01	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Se	Li
	4.30	T	T	T		

Agronomist's Comments:

Completed: 10/20/2011

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.

NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY12-W002723

Diagnostic

Waste Report

Client: Sunburst Trout Company
128 Raceway Pl.
Canton, NC 28716

Advisor: USDA-NRCS-Haywood
589 Racoon Rd. Suite 246
Waynesville, NC 287863217

County: Haywood

Links to Helpful Information

Sampled: | Received: 10/19/2011 | Completed: 10/21/2011 | *Farm:*

Sample Information

Sample ID: 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	30100	11500	4960	28000	1420	2720	4820	207	170	15.4	15.8	2100	386000
Total Kjeldahl N													

Inorganic N	pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
NH_4-N	5.32	78.5					12.8 : 1
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	3.21	0.73	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	18.9	24.8	7.48	26.4	1.34	2.57	4.54	0.19	0.16	0.01	0.01	

Other Elements (lb / ton)

Cl	Na	Ni	Cd	Pb	Se	Li
	3.29	0.01	T	T		

Agronomist's Comments:

Completed: 10/20/2011

North Carolina
Tobacco Trust Fund Commission

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- Steve Troxler, Commissioner of Agriculture.

Sunburst Trout Company

Sample Information

Sample ID: 3
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	26500	13100	4660	30700	1400	2850	5760	197	181	12.6	16.7	1990	432000
Total Kjeldahl N													

pH	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
5.41	66.4					16.3 : 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)*
2.79	0.81	3.11								

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	14.1	24.0	5.94	24.5	1.12	2.27	4.59	0.16	0.14	0.01	0.01	

Other Elements (lb / ton)

Cl	*Na*	*Ni*	*Cd*	*Pb*	*Se*	*Li*
	2.65	T	T	T		

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.

Analytical Results

STATESVILLE ANALYTICAL

Sunburst Trout Co.
128 Raceway Place
Canton NC 28716

Entered 3/13/2012
Reported: 3/19/2012

For: Compost

Sample ID	Parameter	Cust ID	Result	Units	Method	Date Analyzed	Analyst
120313-7.1	% Solids	Bin#3	78.2	%	SM2540B	3/13/12	MD
120313-7.1	Fecal Coliform MTF	Bin#3	<3	MPN/g	SM9221CE	3/13/12	MD
120313-7.2	% Solids	Bin#5	87.6	%	SM2540B	3/13/12	MD
120313-7.2	Fecal Coliform MTF	Bin#5	<2	MPN/g	SM9221CE	3/13/12	MD
120313-7.3	% Solids	Bin#6	80.6	%	SM2540B	3/13/12	MD
120313-7.3	Fecal Coliform MTF	Bin#6	<2	MPN/g	SM9221CE	3/13/12	MD

Respectfully submitted,

Dena Myers

Dena Myers
NC Cert #440,
NCDW Cert #37755,
EPA NC00909

NCDA&CS Agronomic Division Phone: (919)733-2655 Web site: www.ncagr.gov/agronomi/ Report: W05807

Waste Analysis Report

Grower: **Sunburst Trout Company**
128 Raceway Pl.
Canton, NC 28716

Copies to:

Farm:

Haywood County

Received: 02/13/2012 **Completed:** 03/22/2012 Links to Helpful Information

Sample Information	Laboratory Results (parts per million unless otherwise noted)															
Sample ID:		*N*	*P*	*K*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*C*
BIN3	*Total*	26546	10047	4936	24089	2016	3146	4822	208	157	23.6	26.8			423864
	IN-N														
Waste Code:	*-NH4*														
FCW	*-NO3*		*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*	*pH*	*SS*	*C:N*	*DM%*	*CCE%*	ALE(tons)
Description:	*OR-N*		1737	0.64	0.06	0.64				5.35	435	15.97	73.19		
Composted Waste - Other	*Urea*														

Recommendations:	Nutrients Available for First Crop										*lbs/ton (wet basis)*			Other Elements				*lbs/ton (wet basis)*		
Application Method	*N*	*P2O5*	*K2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*
Broadcast	15.5	20.2	6.9	21.2	1.8	2.8	4.2	0.18	0.14	0.02	0.02			2.5	T	T	T			

Completed: March 21, 2012

Sample Information	Laboratory Results (parts per million unless otherwise noted)															
Sample ID:		*N*	*P*	*K*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*C*
BIN5	*Total*	27509	9928	5175	24633	2119	3047	5009	224	157	22.0	27.5			446129
	IN-N														
Waste Code:	*-NH4*														
FCW	*-NO3*		*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*	*pH*	*SS*	*C:N*	*DM%*	*CCE%*	ALE(tons)
Description:	*OR-N*		1788	0.68	0.07	0.60				5.48	275	16.22	87.13		
Composted Waste - Other	*Urea*														

Recommendations:	Nutrients Available for First Crop										*lbs/ton (wet basis)*			Other Elements				*lbs/ton (wet basis)*		
Application Method	*N*	*P2O5*	*K2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*Na*	*Ni*	*Cd*	*Pb*	*Al*	*Se*	*Li*
Broadcast	19.2	23.8	8.7	25.8	2.2	3.2	5.2	0.23	0.16	0.02	0.03			3.1	T	T	T			

Sample Information	Laboratory Results (parts per million unless otherwise noted)														
	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	C
Sample ID: BIN6	Total 25659	10882	4960	27228	1999	2885	4398	252	137	15.9	25.0			383721
	IN-N													
Waste Code: FCW	-NH4													
	-NO3	Na	Ni	Cd	Pb	Al	Se	Li	pH	SS	C:N	DM%	CCE%	ALE(tons)
Description: Composted Waste - Other	OR-N	1750	0.70	0.05	0.46				5.19	379	14.95	71.60		
	Urea													

Recommendations:	Nutrients Available for First Crop lbs/ton (wet basis)													Other Elements lbs/ton (wet basis)						
Application Method	N	P2O5	K2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast	14.7	21.4	6.8	23.4	1.7	2.5	3.8	0.22	0.12	0.01	0.02			2.5	T	T	T			

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