



Diagnostic

Waste Report

Client: Garry Lipscomb
314 Latta Rd
Durham, NC 27712
Durham County

Advisor: Tony Gallagher
DENR
1646 Mail Service Center
Raleigh, NC 27699

Sampled:

Received: 03/04/2016

Completed: 03/09/2016

Farm: NEW SOIL

[Links to Helpful Information](#)

Sample Information	Nutrient and Other Measurements														
Sample ID: NSWC06 Waste Code: FCW Description: Composted Waste - Other Comments:	<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	30800	3120	7490	22200	4150	2280	3930	1490	333	30.3	28.0	678	390000	
	<i>Total Kjeldahl N</i>														
	<i>Inorganic N</i>	1750	<i>pH</i>	<i>DM (%)</i>	<i>SS (10⁻⁵S/cm)</i>			<i>EC (mS/cm)</i>		<i>CCE (%)</i>	<i>ALE(tons)</i>		<i>C:N</i>		
	<i>NH₄-N</i>	387	6.46	31.6	469			4.69		4.25	67.1		12.6 : 1		
	<i>NO₃-N</i>	1360													
	<i>Organic N</i>	29100	<i>Ni (ppm)</i>	<i>Cd (ppm)</i>	<i>Pb (ppm)</i>	<i>Al (ppm)</i>	<i>Se (ppm)</i>	<i>Li (ppm)</i>	<i>As (ppm)</i>	<i>Cr (ppm)</i>	<i>Co (ppm)</i>	<i>Cl (ppm)</i>	<i>Mo (ppm)</i>		
	<i>Urea</i>		13.3	0	17.1										

<i>Application Method</i>	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>
Broadcast	7.79	2.70	4.54	8.40	1.57	0.87	1.49	0.57	0.13	0.01	0.01		0.43	0.01	T	0.01				
Soil Incorporated	9.73	3.38	5.11	10.5	1.96	1.08	1.86	0.71	0.16	0.01	0.01		0.43	0.01	T	0.01				

Agronomist's Comments:

* 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. * Hunter G. Landis 3/9/2016 10:42 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

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.