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Lab # 2318329	Repor	t of Analys	Report Number: 14-272-2053			
Account: 28674	MIKE WOLFE C AND C PEAT C 1650 CR 470 OKAHUMPKA FL			Robert Ferris Client Service Representative		
Date Sampled:	15-Sep-14				329-9871	
Date Received: Sample ID:	16-Sep-14 COMPOST			MONTHLY COM	MPOST SAMPLE	
·			Analysis (as rec'd)	Analysis (dry weight)	Total content, lbs per ton (as rec'd)	
NUTRIENTS						
Nitrogen						
Total Nitroge		%	0.41	1.10	8.2	
Organic Nitro Ammonium N		% %	0.35 0.065	0.93 0.175	6.9 1.3	
Nitrate Nitrog		%	< 0.01	0.170	I.U	
		, ,				
Major and Secor	ndary Nutrients					
Phosphorus	DOOF.	%	0.13	0.35	2.6	
Phosphorus Potassium	as P2O5	% %	0.30 0.19	0.81 0.51	6.0 3.8	
Potassium as	- K2O	% %	0.19	0.62	3.6 4.6	
Sulfur	S NZU	%	0.23	0.02	1.8	
Calcium		%	0.80	2.15	16.0	
Magnesium		%	0.07	0.19	1.4	
Sodium		%	0.030	0.081	0.6	
Micronutrients						
Zinc		ppm	65	175	0.1	
Iron		ppm	595	1599	1.2	
Manganese		ppm	31	83		
Copper		ppm	24	65		
Boron		ppm	< 20			
OTHER PROPERTIES						
Moisture		%	62.80		_	
Total Solids		%	37.20		744.0	
Organic N	<i>M</i> atter	%	26.19	70.40	523.8	
Ash		%	11.00	29.57	220.0	
C:N Ratio		0.7	35.7:1	000-		
Total Carbon		%	14.64	39.35		
Chloride		%	0.06	0.16		
pH Conductivity	1:5 (Soluble Salts)	mS/cm	8.3 3.04			
Conductivity	(Coldbic Galls)	0/0111	0.07			



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Lab # 2318329	Ad	lditional Me	etals Re	Report Number: 14-272-2053			
Account: 28674	1650 CR	PEAT COMP		Robert Ferris Client Service Representative			
Date Sampled: Date Received: Sample ID:	15-Sep-1 16-Sep-1 COMPOS	4		402-829-9871 MONTHLY COMPOST SAMPLE			
	Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	(Method	Ceiling Conc.*	
ADDITIONAL METALS							
Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium	< 0.5 < 0.5 2.9 < 5 < 0.05 1.2 1.9 < 10	7.8 3.2 5.1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 0.50 1.0 5.0 0.05 1.0 1.0	EPA 6020 EPA 6010 EPA 6010 EPA 7471A EPA 6010 EPA 6010 EPA 6010	75 ppm 85 ppm 3000 ppm 840 ppm 57 ppm 75 ppm 420 ppm 100 ppm	

^{*} Reference 40 CFR Table 1 of 503.13 for Ceiling Concentrations.

^{*} Sample was prepared for EPA 6010 analysis by EPA Method 3050b.



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Account: 28674	1650 CR	PEAT CC		Robert Ferris Client Service Representative				
Date Sampled:	15-Sep-				402-829-9871			
Date Received: Sample ID:	16-Sep-				MONTHLY COMPOST SAMPLE			
		Analysis (as rec'd)	Analysis (dry weight)	Units	Detection Limit	Method		
Biological Properties								
5 Day Germinat	ion	100		%	1	TMECC		
7 Day Vigor		100		%	1	TMECC		
CO ₂ OM Evoluti		0.05		mgCO2-C/gO		TMECC 05.08A		
CO ₂ Solids Evol	0.14		mgCO2-C/gTS		TMECC 05.08A			
Fecal Coliform		n.d.	mpn/g	2	EPA 1681			
Salmonella		n.d.	mpn/4g	0.01	EPA 1682			
Stability Rating		Stable		N/A	N/A	TMECC 05.08A		
Physical Properties								
Bulk Density (Lo	oose)	741		lbs/cu yard	1	WT/VOL		
	Bulk Dentisy (Packed)			lbs/cu yard	1	WT/VOL		
	Man Made Materials			%	0.1	Microscopic		
	Max. Particle Length			inches	N/A	TMECC Sieve		
Sieve % Passing 3"			100	%	0.01	TMECC Sieve		
Sieve % Passing 2"			100	%	0.01	TMECC Sieve		
Sieve % Passing 1.5"			100	%	0.01	TMECC Sieve		
Sieve % Passing 1"			100	%	0.01	TMECC Sieve		
Sieve % Passing 3/4"			100 100	%	0.01	TMECC Sieve		
	Sieve % Passing 5/8"				0.01	TMECC Sieve		
	Sieve % Passing 3/8"			%	0.01	TMECC Sieve		
Sieve % Passin	g 1/4"		82	%	0.01	TMECC Sieve		



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Compost Results Interpretations Page 1

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Organic Matter %

26.19 As Received 70.40 Dry Weight

Greater than 20% indicates a desirable range for compost on a dry weight basis.

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

35.7:1

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high [excess carbon] decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

62.80

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.



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Compost Results Interpretations Page 2

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Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5

Conductivity 1:5 3.0	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.



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Compost Results Interpretations Page 3

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pH Value

8.3

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

>10

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART										
salt injury		with excellent ood water qual		,	уои і	for all soils				
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

2.53 0.5-0.5-0 Average Nutrient Content Dry Weight

<2 = Low, >5 = High

.5-0.5-0 Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.