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Lab # 273136	57	Repo	rt of Analys	is	Report Num	ber: 17-286-4120
Acc	ount: JA	SON LINDBO				
2	1783 IL	LINOIS ST UN	IV DEPT OF A	G	1 sty	0_
	C	AMPUS BOX 5	020		Cold	Fes
	N	ORMAL IL 617	90		Rob	ert Ferris
					Accou	nt Manager
Date Sam	pled:				4	829-9871
Date Rece		017-10-10			NUTRIENT AN	ALYSIS
Samp	le ID: C	OMPOST				
						Total content,
				Analysis	Analysis	lbs per ton
				(as rec'd)	(dry weight)	(as rec'd)
NUTRIENTS						
Nitroge	n					
Tota	al Nitrogen		%	0.99	1.89	19.8
Org	anic Nitrogen		%	0.91	1.73	18.2
Am	monium Nitrog	en	%	0.002	0.004	
Nitr	ate Nitrogen		%	0.08	0.15	1.6
Major a	ind Secondary	Nutrients				
Pho	sphorus		%	0.27	0.51	5.4
Pho	sphorus as P2	O5	%	0.62	1.18	12.4
Potassium			%	0.38	0.72	7.6
Potassium as K2O			%	0.46	0.88	9.2
Sulf	fur		%	0.14	0.27	2.8
Cal	cium		%	2.68	5.10	53.6
Mag	gnesium		%	0.46	0.88	9.2
Soc	lium		%	0.060	0.114	1.2
Micron	utrients					
Zind			ppm	208	396	0.4
Iron			ppm	6080	11581	12.2
Mar	nganese		ppm	376	716	0.8
Cop	per		ppm	35.8	68	
Bor	on		ppm	< 100		
OTHER PROP						
	sture		%	47.50		
	al Solids		%	52.50		1050.0
	Organic Matter		%	21.90	41.71	438.0
	Ash		%	30.60	58.29	612.0
	Ratio			13 : 1		
	al Carbon		%	12.81	24.40	
	oride		%	< 0.01		
pH				7.7		
Cor	nductivity 1:5 (S	Soluble Salts)	mS/cm	3.88		

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**Compost Results Interpretations** Page 1

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Organic Matter % 21.90 As Received	Greater than 20% indicates a desirable range for compost on a dry weight basis.
41.71 Dry Weight	
improves soil and pla	is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter ant efficiency by improving soil physical properties, providing a source of energy to beneficial ancing the reservoir of soil nutrients.

C/N Ratio 12.9:1

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 %	<35% = Indicates overly dry compost
	>55% = Indicates overly wet compost
present affects	ent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A ture content of finished compost will range between 40 to 50%.

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Compost Results Interpretations	Report #:	17-286-4120
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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 basis.

Conductivity 1:5 3.9						
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	Report #: DATE RECEIVED:	17-286-4120 2017-10-10				
pH Value						
7.7 0 to 14 scale with 6 to 8 as n	ormal 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	he hydrogen ion activity of a soil or compost on a					
logarithmic scale. The pH scale ranges from 0 to 14 and 7 indica	tes a neutral pH. Growing media with a higher pH	l 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 po	ssibly				
lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.						

lutrient Inde >1	, ,			The Nutrie	ent Index norn	nally runs	between 1 a	and 10.			
The Nutrient			0		s (N,P,K) by th up of Sodium			dium and C	hloride). T	he higher th	ne Nutrient
	AG INDEX CHART										
	salt use on soils with excellent drainage characteristics, injury good water quality and low salts possible			you may use on soils with poor drainage, poor water quality, or high salts				for			
	injury	go	ood water qua	lity and low sa	alts		qu	ality, or nigh s	salts		all soils

Nutrients (N+	+P205+K20)
3.94 1-0.5-0.5	Average Nutrient Content Dry Weight<2 = Low, >5 = HighRating 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%.

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