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Lab #	70510223	Repo	rt of Analys	is	Report Num	ber: 24-239-4114
	Account:	Ronnie Bailey				
	74112	ANRA/ Neches C	Compost Facilit	:y	1/1	0_
		1805 Hwy 79 W.			1000	700
		Jacksonville TX 7	75766		Rob	ert Ferris
					Accou	nt Manager
Da	te Sampled:	2024-08-13			4	829-9871
	te Received:	2024-08-14			STA ANALYSIS	3
	Sample ID:	STOCKPILE # 32	26			
						Total content,
				Analysis	Analysis	lbs per ton
				(as rec'd)	(dry weight)	(as rec'd)
NUTRI	ENTS					
	Nitrogen					
	Total Nitroge	n	%	0.75	1.66	15.0
	Organic Nitro	gen	%	0.70	1.56	14.0
	Ammonium N	litrogen	%	0.048	0.106	1.0
	Nitrate Nitrog	en	%	< 0.01		
	Major and Secon	ndary Nutrients				
	Phosphorus		%	0.31	0.69	6.2
	Phosphorus a	as P2O5	%	0.71	1.57	14.2
	Potassium		%	0.11	0.24	2.2
	Potassium as	K20	%	0.13	0.29	2.6
	Sulfur		%	0.19	0.42	3.8
	Calcium		%	0.82	1.82	16.4
	Magnesium		%	0.07	0.16	1.4
	Sodium		%	0.040	0.089	0.8
	Micronutrients					
	Iron		ppm	8970	19889	17.9
	Manganese		ppm	150	333	0.3
	Boron		ppm	< 100		
07::5						
OTHER	R PROPERTIES		0/	F4.00		
	Moisture		%	54.90		000.0
	Total Solids	A ()	%	45.10	00.44	902.0
	Organic N	ratter	%	17.20	38.14	344.0
	Ash		%	19.60	43.46	392.0
	Total Carbon		%	10.64	23.59	
	Chloride		%	< 0.01		
	pH	4.5.(0.1.10.11	0.	6.4		
	Conductivity	1:5 (Soluble Salts)	mS/cm	1.6		

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Lab # 70510223	Biologic	al & Pl	nysical Pro	perties	Report Num	nber: 24-239-4114
Account:	Ronnie Baile	y				
74112	ANRA/ Nech	es Con	npost Facility	y	1/11	Fess
	1805 Hwy 79	9 W.			jev	7 -
	Jacksonville	TX 757	'66		Rob	pert Ferris
					Client Servi	ce Representative
Date Sampled:	2024-08-13				402	-829-9871
Date Received:	2024-08-14				STA ANALYSI	S
Sample ID:	STOCKPILE	# 326				
	Aı	nalysis	Analysis			
	(as	s rec'd)	(dry weight)	Units	Detection Limit	Method
Biological Properties						
Germination		100		%	1	TMECC 05.05A
Germination Vig		100		%	1	TMECC 05.05A
CO ₂ OM Evolution	on (0.23		mgCO2-C/gOI	M/day 0.01	TMECC 05.08B
CO ₂ Solids Evol	ution (0.43		mgCO2-C/gTS	•	TMECC 05.08B
Fecal Coliform			11	mpn/g	0.2	EPA 1681
Salmonella			< 1.2	mpn/4g	1.2	TMECC 07.02
Stability Rating	S	table		N/A	N/A	TMECC 05.08B
Physical Properties						
Bulk Density (Lo	222)	1028			1	WT/VOL
Bulk Density (Pa	•	1382		lbs/cu yard	1	WT/VOL
Film Plastics	•	n.d.		lbs/cu yard	0.1	TMECC 03.08
Glass Fragment		n.d.		%	0.1	TMECC 03.08
Hard Plastics		n.d.		%	0.1	TMECC 03.08
Metal Fragment		n.d.		%	0.1	TMECC 03.08
Sharps		bsent			0.1	TMECC 03.08
Max. Particle Le		JJCIII	2.0	inches	N/A	TMECC 03.00
Sieve % Passing			100	%	0.01	TMECC Sieve
Sieve % Passing	•		100	%	0.01	TMECC Sieve
Sieve % Passing	•		100	%	0.01	TMECC Sieve
Sieve % Passing			100	%	0.01	TMECC Sieve
Sieve % Passing	•		100	%	0.01	TMECC Sieve
Sieve % Passing			100	%	0.01	TMECC Sieve
Sieve % Passing	•		98	%	0.01	TMECC Sieve
Sieve % Passing			94	%	0.01	TMECC Sieve

Compost Results Interpretations

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Organic Matter %

17.20 As Received

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

38.14 Dry Weight

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

14.2:1

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 %

54.90

<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%.

Compost Results Interpretations

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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	
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.

Compost Results Interpretations

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pH Value

6.4

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.

				AC	G INDEX CHA	RT				
salt injury possible			t drainage cha lity and low sa		уои і	may use on so qu	ils with poor d ality, or high s		water	for all soils
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

3.53 Average Nutrient Content Dry Weight

<2 = Low, >5 = High

1-0.5-0 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%.

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Ronnie Bailey ANRA/ Neches Compost Facility Jacksonville TX 75766 1805 Hwy 79 W.

REPORT OF ANALYSIS

STA ANALYSIS For: (74112) ANRA/ Neches Compost Facility

	Level Found	bund		Reporting		Analyst-	Verified-
Analysis	As Received Dry Weight	Dry Weight	Units	Limit	Method	Date	Date
Sample ID: STOCKPILE # 326	Lab Number: 70510223	Date S	Date Sampled: 2024-08-13 0830	24-08-13 0	830		
Cadmium (total)	< 0.50	< 0.50	mg/kg	0.50	EPA 6010	erw9-2024/08/15 trh1-2024/08/23	trh1-2024/08/23
Chromium (total)	7.08	15.7	mg/kg	1.00	EPA 6010	erw9-2024/08/15	trh1-2024/08/23
Mercury (total)	0.07	0.16	mg/kg	0.05	EPA 7471	Mab7-2024/08/21 trh1-2024/08/23	trh1-2024/08/23
Lead (total)	5.9	13.1	mg/kg	5.0	EPA 6010	erw9-2024/08/15	trh1-2024/08/23
Molybdenum (total)	1.3	2.9	mg/kg	1.0	EPA 6010	erw9-2024/08/15 trh1-2024/08/23	trh1-2024/08/23
Nickel (total)	4.1	9.1	mg/kg	1.0	EPA 6010	erw9-2024/08/15	trh1-2024/08/23
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2024/08/15 trh1-2024/08/23	trh1-2024/08/23
Zinc (total)	125.7	278.8	mg/kg	2.0	EPA 6010	erw9-2024/08/15	trh1-2024/08/23
Copper (total)	54.1	120	mg/kg	_	EPA 6010	erw9-2024/08/15	trh1-2024/08/23
Arsenic (total)	2.46	5.46	mg/kg	0.5	EPA 6020	nto7-2024/08/20	trh1-2024/08/23
Cobalt (total)	1.10	2.44	mg/kg	1.00	EPA 6010	erw9-2024/08/15 trh1-2024/08/23	trh1-2024/08/23

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ANRA/ Neches Compost Facility Ronnie Bailey 1805 Hwy 79 W. Jacksonville TX 75766

REPORT OF ANALYSIS

For: (74112) ANRA/ Neches Compost Facility STA ANALYSIS

Analysis As Received **Level Found** Dry Weight Units Reporting Limit Method Date Analyst-Date Verified-

your state for their requirements exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been

ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:

Cole C Parsons Account Manager cparsons@midwestlabs.com (402)829-9850