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Lab # 70542732	Repor	t of Analys	is	Report Numl	ber: 24-310-4021
Account:	Ronnie Bailey				55
74112	ANRA/ Neches C	ompost Facili	ty	1 st	
	1805 Hwy 79 W.			Cold	700
	Jacksonville TX 7	5766		Rob	ert Ferris
				Accour	nt Manager
Date Sampled:	2024-10-22			402-8	829-9871
Date Received:	2024-10-23			STA ANALYSIS	5
Sample ID:	STOCK PILE *32	8			
					Total content,
			Analysis	Analysis	lbs per ton
			(as rec'd)	(dry weight)	(as rec'd)
NUTRIENTS					
Nitrogen					
Total Nitrog		%	1.18	2.30	23.6
Organic Nitr		%	1.08	2.11	21.6
Ammonium	•	%	0.050	0.097	1.0
Nitrate Nitro	gen	%	0.05	0.10	1.0
	ndary Nutrients				
Phosphorus		%	0.38	0.74	7.6
Phosphorus	as P2O5	%	0.87	1.70	17.4
Potassium		%	0.12	0.23	2.4
Potassium a	is K2O	%	0.14	0.27	2.8
Sulfur		%	0.23	0.45	4.6
Calcium		%	0.64	1.25	12.8
Magnesium		%	0.09	0.18	1.8
Sodium		%	0.070	0.136	1.4
Micronutrients					
Iron		ppm	7490	14600	15.0
Manganese		ppm	144	281	0.3
Boron		ppm	< 100		
OTHER PROPERTIES		0/	40.70		
Moisture		%	48.70		1000.0
Total Solids		%	51.30	00.04	1026.0
Organic	water	%	35.30	68.81	706.0
Ash Tatal Carba		%	15.80	30.80	316.0
Total Carbo	n	%	15.14	29.51	
Chloride		%	0.01	0.02	
pH Constitution			5.3		
Conductivity	1:5 (Soluble Salts)	mS/cm	3.3		

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	2732			hysical Pro	operties	Report Num	ber: 24-310-4021
A	ccount:	Ronnie Ba					
	74112	ANRA/ Ne	ches Cor	npost Facilit	y	1/11	Fess
		1805 Hwy	79 W.			1000	/
		Jacksonvil	le TX 757	766		Rot	pert Ferris
						Client Servi	ce Representative
Date Sa	mpled:	2024-10-2	2			402	-829-9871
Date Re	ceived:	2024-10-2	3			STA ANALYSI	S
San	nple ID:	STOCK P	LE *328				
			Analysis	Analysis			
			(as rec'd)	(dry weight)	Units	Detection Limit	Method
Biological P	Properties						
	nination		100		%	1	TMECC 05.05A
Gern	nination Vigor		100		%	1	TMECC 05.05A
CO <sub>2</sub>	OM Evolution		0.55		mgCO <sub>2</sub> -C/gO	M/day 0.01	TMECC 05.08B
CO <sub>2</sub>	Solids Evolutio	n	1.26		mgCO <sub>2</sub> -C/gTS	S/day 0.01	TMECC 05.08B
Feca	I Coliform			34	mpn/g	0.2	EPA 1681
Salm	onella			< 1.2	mpn/4g	1.2	TMECC 07.02
Stab	ility Rating		Stable		N/A	N/A	TMECC 05.08B
Physical Pro							
	Density (Loose	-	708		lbs/cu yard	1	WT/VOL
	Density (Packe	ed)	994		lbs/cu yard	1	WT/VOL
	Plastics		n.d.		%	0.1	TMECC 03.08
	s Fragments		n.d.		%	0.1	TMECC 03.08
	Plastics		n.d.		%	0.1	TMECC 03.08
	I Fragment		n.d.		%	0.1	TMECC 03.08
Shar			absent			0.1	TMECC 03.08
	Particle Lengt			2.0	inches	N/A	TMECC Sieve
	e % Passing 3"			100	%	0.01	TMECC Sieve
	e % Passing 2"			100	%	0.01	TMECC Sieve
Cieve	e % Passing 1.			100	%	0.01	TMECC Sieve
	e % Passing 1"			100	%	0.01	TMECC Sieve
Sieve		A ''		100	%	0.01	TMECC Sieve
Sieve Sieve	e % Passing 3/						
Sieve Sieve Sieve	e % Passing 5/	8"		100	%	0.01	TMECC Sieve
Sieve Sieve Sieve Sieve		8" 8"		100 99 85	% <mark>%</mark> %	0.01 0.01 0.01	TMECC Sieve TMECC Sieve TMECC Sieve

Compost Results Interpretations	Report #:	24-310-4021	
Page 1	DATE RECEIVED:	2024-10-23	
Organic Matter %			
35.30 As Received	Greater than 20% indicates a desirable range for compo	st on a dry weight basis	i.
68.81 Dry Weight			
Compost is a s	ignificant source of Organic Matter, which is an important supplie	r of carbon Organic M	attor
	fficiency by improving soil physical properties, providing a source		allei

organisms, and enhancing the reservoir of soil nutrients.

C/N	Ratio	
	12.8:1	

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
48.70	>55% = Indicates overly wet compost
present	Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A e moisture content of finished compost will range between 40 to 50%.

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Compost Results Interpretations	Report #:	24-310-4021
Page 2	DATE RECEIVED:	2024-10-23

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	
3.3	
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:	24-310-4021 2024-10-23					
pH Value							
5.3 0 to 14 scale with 6 to 8 as r	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	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 indicated	ates a neutral pH. Growing media with a higher pH o	r pH					
greater than 7 can benefit from a compost that has a more acidic	c pH or pH below 7. This type of application will poss	ibly					
lower the soil pH making the soil more conducive to plants that the	hrive in a more acidic soil condition.						

Nutrient Index >10	,			The Nutrie	nt Index nor	mally runs l	between 1 a	and 10.			
The Nutrient I		•	-					dium and C	hloride). Th	ne higher th	ne Nutrient
	Index the less chance of having a toxic buildup of Sodium (salt) in the soil.  AG INDEX CHART										
	injury good water quality and low salts quality, or high salts all s						for all soils				
	possible	5	-	possible							

Nutrients (N	N+P205+K20)	
4.27 1-1-0	Average Nutrient Content Dry Weight Rating As Received	<2 = Low, >5 = High
	and the information is similar to that found in comm	is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present non fertilizers. If a compost result has the rating 1-2-2 it means that the compost has t compost tests will have a average nutrient level (N+P+K) of < 5%.



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





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

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	Level Found	ound		Reporting		Analyst-	Verified-
Analysis	As Received Dry Weight	Dry Weight	Units	Limit	Method	Date	Date
Sample ID: STOCK PILE *328	Lab Number: 70542732	Date Sa	Date Sampled: 2024-10-22 0830	4-10-22 08	330		
Cadmium (total)	< 0.50	< 0.50	mg/kg	0.50	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Chromium (total)	8.00	15.6	mg/kg	1.00	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Mercury (total)	0.06	0.11	mg/kg	0.05	EPA 7471	Mab7-2024/10/31 trh1-2024/11/01	trh1-2024/11/01
Lead (total)	6.9	13.5	mg/kg	5.0	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Molybdenum (total)	2.9	5.6	mg/kg	1.0	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Nickel (total)	4.7	9.2	mg/kg	1.0	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Selenium (total)	< 10.0	< 10.0	mg/kg	10.0	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Zinc (total)	146.5	285.5	mg/kg	2.0	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01
Copper (total)	67.7	132	mg/kg	<u> </u>	EPA 6010	erw9-2024/10/28 trh1-2024/11/01	trh1-2024/11/01
Arsenic (total)	3.83	7.47	mg/kg	0.5	EPA 6020	nto7-2024/10/28	trh1-2024/11/01
Cobalt (total)	1.48	2.88	mg/kg	1.00	EPA 6010	erw9-2024/10/24 trh1-2024/11/01	trh1-2024/11/01

	EPA 1681 holding time of < 24 hours from sampling exceeded. Individual states enforce different holding your state for their requirements. ppm = parts per million, ppm = mg/kg, ppm = mg/L	Level Analysis As Received	ANRA/ Neches Compost Facility Ronnie Bailey 1805 Hwy 79 W. Jacksonville TX 75766	REPORT DATE SEND TO Nov 05, 2024 74112 RECEIVED DATE Oct 23, 2024	REPORT NUMBER 24-310-4021
For questions please contact:	EPA 1681 holding time of < 24 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements. ppm = parts per million, ppm = mg/kg, ppm = mg/L	Level Found Reporting sceived Dry Weight Units Limit Method	<b>REPORT OF ANALYSIS</b> For: (74112) ANRA/ Neches Compost Facility STA ANALYSIS	13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com	<b>Nidwest</b>
	nas been atory body in	Analyst- Verified- Date Date		ISSUE DATE Nov 05, 2024	PAGE 7/7

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