

Client No: 1099

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## SEAL of TESTING ASSURANCE SUITE STA Compost Analysis Report and Results

Lab No: 66506

Client No: 1099 SouthWaste Disposal LLC					Sample ID:	Lab No: 66506 Row 14
16350 Park Ten Place, Ste. 215 Houston, TX 77084 Ben Camacho					Date Sampled: Date Received: Date Reported:	November 30, 2022 December 6, 2022 December 15, 2022
713-303-9435					Email:	bcamacho@wrmco.com
Analysis	Unit	As Sent	Dry Weight	lbs/ton as sent		Analysis Method
Moisture @ 70 C	%	12.12	####	29		TMECC 03.09A
Dry Matter	%	87.88	####			TMECC 03.09A
Organic Matter by LOI @ 360C	%	23.14	26.33	463		TMECC 05.07-A
Organic Carbon by LOI @ 360C	%	11.57	13.17	231		
Carbon:Nitrogen (C:N) Ratio		17.51 : 1	17.51 : 1			
Soluble Salts	dS/m	1.05				TMECC 04.10-A
pH	Std Unit	7.42				TMECC 04.11-A
Total Nutrients	ota otiit					
Nitrogen (N)	%	0.66	0.75	13.22		TMECC 04.02-A
Nitrate-Nitrogen (ppm NO <sub>3</sub> -N)	ppm	1.39	1.58	0.00		
Ammonium-Nitrogen (NH <sub>4</sub> -N)	ppm	117.32	133.50	0.23		
Phosphorous (P)	%	0.40	0.46	8.02		TMECC 04.12-B
Phosphate as $P_2O_5$	%	0.92	1.05	18.37		
Potassium (K)	%	0.24	0.27	4.78		TMECC 04.12-B
Potash as K <sub>2</sub> O	%	0.29	0.33	5.76		
Sodium (Na)	%	0.23	0.12	2.14		TMECC 04.12-B
Calcium (Ca)	%	8.61	9.80	172.28		TMECC 04.12-B
Magnesium (Mg)	%	0.21	0.24	4.26		TMECC 04.12-B
Zinc (Zn)	ppm	114.48	130.27	0.23		TMECC 04.12-B
Iron (Fe)	ppm	5514.69	6275.25	11.03		TMECC 04.12-B
Manganese (Mn)		75.60	86.03	0.15		TMECC 04.12-B
Copper (Cu)	ppm ppm	21.94	24.96	0.15		TMECC 04.12-B
Boron (B)	ppm	24.50	27.88	0.05		TMECC 04.12-B
Chlorides (CI)	ppm	316.37	360.00	0.63		TME66 04.12-B
Sulfur (S)	ppm	3173.98	3611.72	6.35		TMECC 04.12-B
Trace Metals	ррп	5175.50	3011.72	PASS/FAIL	E.P.A. Limit*	TME00 04.12-D
Arsenic	mg/kg	< 1.00	< 1.00	Pass	41	SW846-6010B 04.06-As
Cadmium	mg/kg	< 0.50	< 0.50	Pass	39	SW846-6010B 04.06-Cd
Zinc	mg/kg	114.48	130.27	Pass	2800	SW846-7470 04.06-Zn
Copper	mg/kg	21.94	24.96	Pass	1500	SW846-6010B 04.06-Cu
Mercury	mg/kg	< 0.50	< 0.50	Pass	17	SW846-7471 04.06-Hg
Molybdenum	mg/kg	0.86	0.98	Pass	75	SW846-6010B 04.06-Mo
Nickel	mg/kg	7.70	8.76	Pass	420	SW846-6010B 04.06-Ni
Lead	mg/kg	17.85	20.32	Pass	300	SW846-6010B 04.06-Pb
Selenium	mg/kg	4.37	4.97	Pass	300	SW846-6010B 04.06-Se
Chromium	mg/kg	4.37	50.18	Pass	1200	SW846-6010B 04.06-Cr
Stability Indicator -		44.10	50.18	Pathogens		Analysis Method
Solvita Maturity Index -	TWECC 05.06-E		Total Coliform (M		320	
Stability Rating			Fecal Coliform (M	• • •		
Stability Hating Sieve - TMEC	C 02 02 P		Fecal Collionn (IV		cator - TMECC 0	
	С 02.02-В 100					
% Passing 3/8 in.				n - mg CO2-C/g ON		0.45 Very Stable
% Passing 5/8 in. Inerts - TMEC	100	J	CO2 Solids EVOlu	tion - mg CO2-C/g	1 3/0ay	
	C 03.06-A 0.00	2			umber bloassay	92.00
% Plastic	0.0		Emergence - Avg		No ontrol	92.00 100.00
% Glass	0.0		0	Vigor - Avg. % of C	Jontrol	
% Metals		5	Plant Description			Very Healthy

\*per US EPA Class A Standard, 40 CFR § 503.13, Tables 1 and 3.

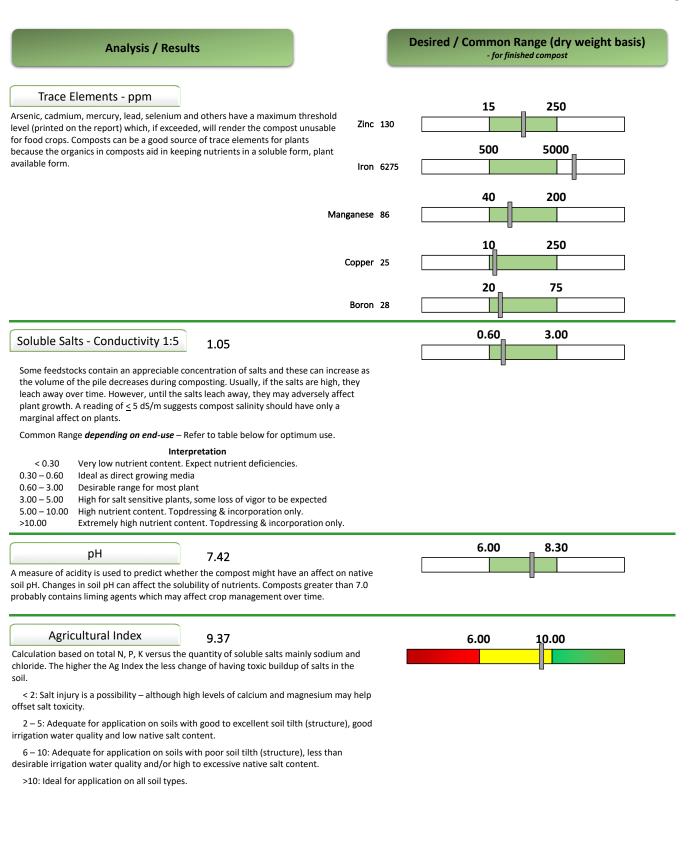
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## Understanding Compost Test Results Suitability of Use

Composts are complex mixtures of feedstocks that have been decomposed by microbes. Composts have several biological, chemical, and physical properties that may be beneficial for growing plants and improving soil, but some properties may limit use. Accordingly, a range of tests have been performed on your compost to determine whether any of its properties might limit the use of product.

Analysis / Results	Desired / Common Range (dry weight basis)			
% Moisture 12.12   < 30% Compost is too dry - light and dusty   > 50% Compost is too wet - heavier and clumpy		25.00	50.00	
% Organic Matter by LOI 26.33 Composts contain mostly organic carbon composed of the remmaterials and newly produced molecules generated by the mic are the fuel microbes use to cycle nutrients in the soil. Organic physical, chemical, biological aspects providing a source of enert the nutrient bank for plants.	robes. Carbon compounds Matter improves the soils	20.00	60.00	
Carbon : Nitrogen (C:N) Ratio Organic Matter is composed of carbon primarily with some nitr elements is the C: N Ratio. Composting requires a balance of ca nitrogen. If the C: N ratio is high then the decomposition rate is the compost pile is difficult to manage. 25 to 35 preliminary com	rbon for energy and slowed down; if low, then	10.00	25.00	
% Nitrogen   0.75     Most nitrogen in composts is in organic forms that will be relea microbes decompose the organic compounds. Generally, 20% t nitrogen becomes slowly available to plants in the first year of a	o 40% of the organic	1.00	7.00	
% Phosphorous as $P_2O_5$ 1.05 Much of the phosphorous in composts is also held in organic for compost contains significant amounts of inorganic phosphorus forms in association with calcium and magnesium. Release of t to that of organic nitrogen. Release of inorganic forms depended Greatest solubility in the neutral region (6.2 – 7.2).	held in more slowly soluble he organic portion is similar	0.20	3.00	
% Potassium as K <sub>2</sub> O 0.33 In contrast to nitrogen and phosphorous, potassium is not held becomes more loosely associated with the backbone of organic require microbial activity for release, so it becomes available to Most of the element becomes available for plant uptake in the application.	c compounds. It does not plants at a higher rate.	0.20	4.00	
% Calcium 9.80 This nutrient does not form organic compounds but rather is prifree or in the form of inorganic compounds. Release of calcium on how soluble in water soluble (Plant Natural <sup>*</sup> – Carbonicum I compound is. This in turn depends largely on the native soil pH applied. A more acidic pH (< 7) favors faster release. About half available in the first three months following application.	for plants mainly depends Media Analysis) the inorganic to which the compost is	1.00	10.00	
% Magnesium 0.24 This nutrient also does not form organic compounds but rather either free or in the form of inorganic compounds. Release of n depends on how soluble in water soluble (Plant Natural" – Carb inorganic compound is. This in turn depends largely on the nati compost is applied. A more acidic pH (< 7) favors faster release plant available in the first three months following application.	nagnesium for plants mainly onicum Media Analysis) the ve soil pH to which the	0.50	1.00	
% Sulfur 0.36 This important nutrient forms organic compounds, and also has soil. This means that some is readily available, and some is rele for nitrogen and phosphorous.		0.02	0.50	

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