Anaheim Office
May 10, 2023
Report 23-121-0031

Zanker Landscape Materials
675 Los Esteros Road
San Jose, CA 95134

Attn: Marin & Beto

RE: Veggie Blend processed on 05/01/2023

Reaction at 7.3 is slightly alkaline and this is within the range preferred by most plants. Free lime is favorably low. Salinity (ECe) is safe at 2.5 dSm. Sodium and boron are safely low. The SAR value indicates that soluble sodium is adequately balanced by calcium and magnesium.

Organic content was measured by loss on ignition at 13.4% dry weight. This is favorable and will assist with respect to water and nutrient retention characteristics. The carbon to nitrogen ratio at 25.9 is favorable.

Nitrogen and phosphorus are moderately low. Potassium is abundant and represents good reserve potential. Calcium is moderately supplied and magnesium is well supplied. Of the micronutrients; copper, zinc, and iron are fair with manganese being low.

Nitrogen and phosphorus will be the first nutrients that require supplementation and should be incorporated at planting. If conventional fertilizer is used, Ammonium Sulfate (21-0-0) and Triple Superphosphate (0-45-0) are good options each applied at a rate of 8 lbs. per 1000 square feet incorporated to a 6 inch depth or 1/3 lb. of each material per cubic yard on a volume basis. If organic fertilizers are preferred, Blood meal (12-0-0) at a rate of 10 pounds per 1000 square feet and Bone Meal (3-15-0) at 30 pounds per 1000 square feet incorporated to a 6 inch depth would boost nitrogen and phosphorus availability at planting. On a volume basis, ½ pound of 12-0-0 and 1 ½ pounds of 3-15-0 per cubic yard would be appropriate. Routine maintenance fertilization should begin approximately 45-60 days after planting. If conventional fertilizer will be used a good option would be Ammonium Sulfate (21-0-0) at a rate of 5 pounds per 1000 square feet with reapplication every 45-60 days or as plant color and growth dictates. If an organic program will be utilized, then in order to provide a good supply of nitrogen for a 3-4 month time frame a good combination would be 6 pounds Blood Meal and 14 pounds Feather Meal per 1000 square feet.

If we can be of any further assistance, please feel free to contact us.

Joe Kiefer, CCA
jkiefer@waypointanalytical.com

Emailed 3 pages: marin.villalpando@greenwaste.com & beto.ochoa@greenwaste.com

Waypoint ANALYTICAL

4741 East Hunter Ave. Suite A
Anaheim, CA 92807
Main 714-282-8777 ° Fax 714-282-8575
www.waypointanalytical.com

COMPOST / AMENDMENT EVALUATION

Send To :	Project :	
Zanker Landscape Materials 675 Los Esteros Road San Jose CA 95134	Veggie Blend	Report Number : **23-121-0031** Customer Number : 01002 Date printed : 05/08/2023 Date received : 05/01/2023 Page : 1 of 2 Lab Number : 59400

Sample Id : **Veggie Blend**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.31 %	31 ppm		0.4
NH_4-N		23 ppm		
NO_3-N		8 ppm		
Phosphorus (P)		26 ppm		0.5
Phosphorus (P_2O_5)		60 ppm		
Potassium (K)		891 ppm	5.4 meq/L	3.2
Potassium (K_2O)		1078 ppm		
Calcium (Ca)		1788 ppm	4.9 meq/L	0.6
Magnesium (Mg)		926 ppm	6.4 meq/L	2.1
Sodium (Na)			14.8 meq/L	
Sulfur (S)				
Sulfate (SO_4)			4.8 meq/L	1.6
Chloride (Cl)				
Copper (Cu)		1.7 ppm		0.7
Zinc (Zn)		4 ppm		0.4
Manganese (Mn)		1 ppm		0.1
Iron (Fe)		33 ppm		0.4
Dilute Acid Fe		0.26 %		
Boron (B)			0.78 ppm	2.6

Test	Result
pH (sat paste)	7.3 s.u.
% Half Sat.	40
TEC	194 meq/kg
Qualitative Lime	Low
Salinity (EC of sat ext.)	2.5 dS/m
SAR (Sodium adsorption ratio)	6.24
Sodium as % of ECe	54 %
Bulk Density - Dry	871 lbs/yd³
Bulk Density - As Received	1112 lbs/yd³
Moisture - As Received	21.7 %
Organic	13.4 %
Weight of organic / yd³	117 lbs/yd³
Weight of mineral / yd³	754 lbs/yd³
C/N Ratio	25.9

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	3.5 %

Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	98.4 %
Passing 6.4mm (1/4")	89.5 %
Passing 4.75mm	82.2 %
Passing 2.36mm	62.7 %
Passing 1.00mm	43.1 %
Passing 0.50mm	29.2 %

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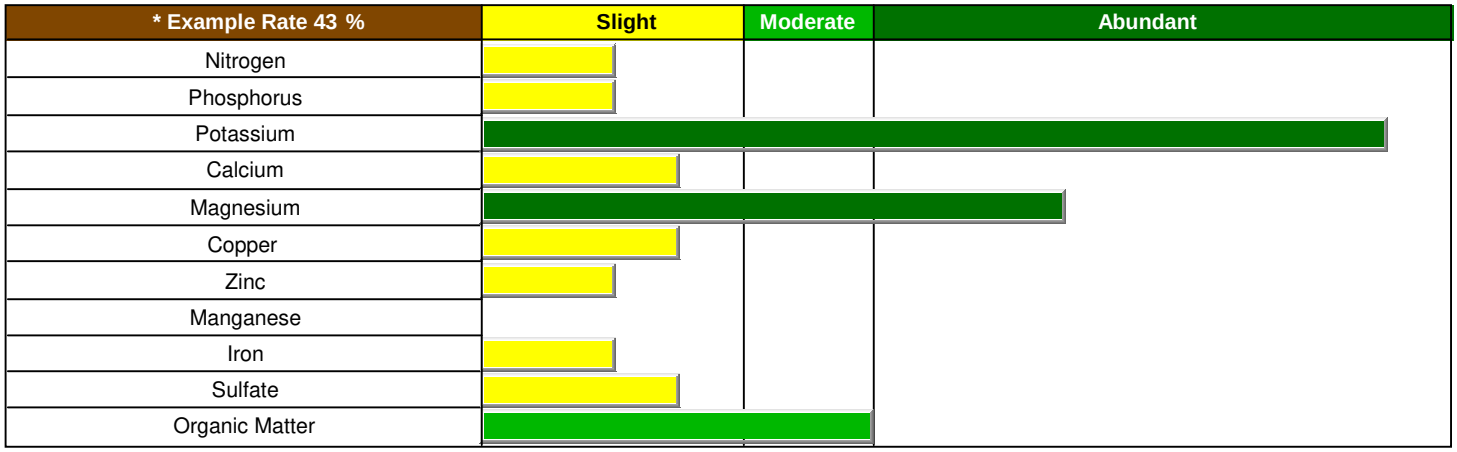
Sample Id : **Veggie Blend**

POTENTIAL RATE LIMIT FACTORS

Test	% Volume rate limit	Cubic yard amendment per 1000 sf to 6"							
		1	2	3	4	5	6	7	8
		Volume % amendment blend with sandy loam							
		5	11	16	22	27	32	38	43
EC sat. ext.	No Limit								
Sodium sol.	No Limit								
Chloride sol.									
Boron sol.	No Limit								
NH_4 -N	No Limit								
Available									
Nitrogen	No Limit								
PO_4 P	No Limit								
Copper	No Limit								
Zinc	No Limit								

Rate limit estimates based on amending a non-problematic sandy loam

RELATIVE IMMEDIATE NUTRIENT AND ORGANIC VALUE



* If no chemical characteristics are rate limiting, the example rate is based on organic content of the amendment (up to a max of 43%).

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675 Los Esteros Road
San Jose CA 95134

Project :
Veggie Blend

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Customer Number : 01002
Date printed : 05/08/2023
Date received : 05/01/2023
Page : 1 of 2
Lab Number : 59400

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Rate limit estimates based on amending a non-problematic sandy loam

RELATIVE IMMEDIATE NUTRIENT AND ORGANIC VALUE

* Example Rate 43 %	Slight	Moderate	Abundant
Nitrogen			
Phosphorus			
Potassium			
Calcium			
Magnesium			
Copper			
Zinc			
Manganese			
Iron			
Sulfate			
Organic Matter			

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