

**COMPOST / AMENDMENT EVALUATION**

Send To : Zanker Landscape Materials 675 Los Esteros Road San Jose CA 95134	Project : Zanker Horticulture	Report Number : <b>23-272-0004</b> Customer Number : 01002 Date printed : 10/05/2023 Date received : 09/29/2023 Page : 1 of 3 Lab Number : 63307
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Sample Id : **Zanker Horticulture**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.22 %	13 ppm		0.1
NH <sub>4</sub> -N		9 ppm		
NO <sub>3</sub> -N		4 ppm		
Phosphorus (P)	0.1 %	74 ppm		1.0
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	0.23 %	169 ppm		
Potassium (K)	0.11 %	428 ppm	1.6 meq/L	1.4
Potassium (K <sub>2</sub> O)	0.13 %	518 ppm		
Calcium (Ca)	3.07 %	1918 ppm	6.4 meq/L	0.9
Magnesium (Mg)	2.47 %	272 ppm	4.1 meq/L	0.9
Sodium (Na)	0.1 %		14.9 meq/L	
Sulfur (S)	0.08 %			
Sulfate (SO <sub>4</sub> )			22.7 meq/L	7.6
Chloride (Cl)			2.4 meq/L	
Copper (Cu)	76.4 ppm	0.6 ppm		0.4
Zinc (Zn)	63.3 ppm	2 ppm		0.3
Manganese (Mn)	582 ppm	9 ppm		0.6
Iron (Fe)	4730 ppm	64 ppm		1.0
Dilute Acid Fe		0.43 %		
Boron (B)	29.6 ppm		0.64 ppm	2.1

Test	Result
pH (sat paste)	6.6 s.u.
% Half Sat.	61
TEC	129 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	2.2 dS/m
SAR (Sodium adsorption ratio)	6.5
Sodium as % of ECe	61 %
Bulk Density - Dry	722 lbs/yd <sup>3</sup>
Bulk Density - As Received	893 lbs/yd <sup>3</sup>
Moisture - As Received	19.2 %
Organic	23.6 %
Weight of organic / yd <sup>3</sup>	170 lbs/yd <sup>3</sup>
Weight of mineral / yd <sup>3</sup>	551 lbs/yd <sup>3</sup>
C/N Ratio	64.2

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	0.2 %
<b>Fraction Passing 1/2 inch Screen - Dry Weight Basis</b>	
<b>Screen Opening</b>	<b>% Passing</b>
Passing 9.5mm	99.6 %
Passing 6.4mm ( 1/4")	88.7 %
Passing 4.75mm	80.9 %
Passing 2.36mm	58.6 %
Passing 1.00mm	33.8 %
Passing 0.50mm	19.9 %

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**NUTRIENT SUMMARY**

Test	Amount Per Cubic Yard				Amount Per Ton, As Rec'd				Available as a % Of Total
	Total		Available		Total		Available		
Nitrogen	1.59	lbs	0.01	lbs	3.56	lbs	0.02	lbs	1
Phosphorus (P)	0.73	lbs	0.05	lbs	1.63	lbs	0.12	lbs	7
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	1.67	lbs	0.12	lbs	3.73	lbs	0.27	lbs	7
Potassium (K)	0.77	lbs	0.31	lbs	1.72	lbs	0.69	lbs	40
Potassium (K <sub>2</sub> O)	0.93	lbs	0.37	lbs	2.09	lbs	0.84	lbs	40
Calcium	22.13	lbs	1.38	lbs	49.53	lbs	3.1	lbs	6
Magnesium	17.83	lbs	0.2	lbs	39.91	lbs	0.44	lbs	1
Sulfur	0.57	lbs	0.32	lbs	1.28	lbs	0.71	lbs	55
Copper	0.88	ozs	0.01	ozs	1.98	ozs	0.02	ozs	1
Zinc	0.73	ozs	0.03	ozs	1.64	ozs	0.06	ozs	4
Manganese	6.72	ozs	0.1	ozs	15.05	ozs	0.23	ozs	2
Iron	54.64	ozs	0.74	ozs	122.3	ozs	1.65	ozs	1
Boron	0.34	ozs	0.01	ozs	0.77	ozs	0.02	ozs	3
Organic Matter	170	lbs			381	lbs			

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**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.	No Limit								
Boron sol.	No Limit								
NH <sub>4</sub> -N	No Limit								
Available									
Nitrogen	No Limit								
PO <sub>4</sub> 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**

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

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