

Anaheim Office November 5, 2024 Report 24-299-0013

Zanker Landscape Materials 675 Los Esteros Road San Jose Ca 95134

Attn: Marin

RE: Black Mini Mulch

The product submitted is from recycled wood that has not been fully composted. Visually, this material has a nice black color and is free of contaminants.

100% of the material passes through a 1 inch screen and approximately 2.6% is retained in the 1/2" screen. Of the material passing the 1/2-inch screen 85.5% of the amendment passes the 6.4 mm (1/4 inch) screen and 24.8% passes the 2.36 mm (about 1/8 inch). The particle size distribution is favorable for an incorporated amendment and is a little finer than average for a surface mulch.

The product is comprised of 64% organic matter by weight with 128 lbs. of organic matter per cubic yard.

The product is slightly alkaline with pH 7.3. Soluble salts are favorably low. Potassium, calcium, and sulfate are well supplied. While nitrogen and magnesium are moderately supplied. Boron is safely low yet nutritionally adequate.

The carbon to nitrogen ratio is higher than a well composted material but should pose no risk if nitrogen is supplemented accordingly. If this material is incorporated into the soil, there will be potential for shrinkage. A slow release form of nitrogen may be needed to mitigate any nitrogen draw as ammonium is converted. The carbon nitrogen ratio and shrinkage can be reduced by composting.

If no composting is anticipated, then the best use is as a surface mulch. The current grind has a nice appearance but it is a little finer than ideal if the goal is to reduce surface water evaporation and to suppress weed germination.

Finer material passing through a ¼" (6.4mm) screen can be and marketed as a turf topper that contains sufficient nitrogen and would be expected to provide moderate water holding capacity along with a good initial boost of fertility.

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

Matt Schwebel

Mschwebel@waypointanalytical.com

(714)-552-5228



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:
Greenwaste-Zanker Landscape
Materials
675 Los Esteros Road
San Jose CA 95134

Project : Black Mini Mulch Report Number: 24-299-0013
Customer Number: 01002
Date printed: 10/31/2024
Date received: 10/25/2024
Page: 1 of 2
Lab Number: 71086

Sample Id: Black Mini Mulch

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	0.52 %	431 ppm		0.9
NH ₄ -N		427 ppm		
NO ₃ -N		4 ppm		
Phosphorus (P)		80 ppm		0.3
Phosphorus (P ₂ O ₅)		183 ppm		
Potassium (K)		325 ppm	2.0 meq/L	0.5
Potassium (K ₂ O)		393 ppm		
Calcium (Ca)		848 ppm	2.0 meq/L	0.4
Magnesium (Mg)		132 ppm	0.8 meq/L	0.4
Sodium (Na)			5.4 meq/L	
Sulfur (S)				
Sulfate (SO ₄)			6.8 meq/L	2.3
Chloride (CI)				
Copper (Cu)		0.9 ppm		1.0
Zinc (Zn)		7 ppm		1.9
Manganese (Mn)		19 ppm		2.3
Iron (Fe)		39 ppm		1.1
Dilute Acid Fe		0.04 %		
Boron (B)			0.59 ppm	2.0

Test	Result				
pH (sat paste)	7.3 s.u.				
% Half Sat.	233				
TEC	74 meq/kg				
Qualitative Lime	None				
Salinity (EC of sat ext.)	1.4 dS/m				
SAR (Sodium adsorption ratio)	4.59				
Sodium as % of ECe	34 %				
Bulk Density - Dry	200 lbs/yd ³				
Bulk Density - As Received	371 lbs/yd ³				
Moisture - As Received	46.1 %				
Organic	64.0 %				
Weight of organic / yd3	128 lbs/yd³				
Weight of mineral / yd3	72 lbs/yd³				
C/N Ratio	73.7				

Gradation						
Wt Percent Retained 1"	0.0 %					
Wt Percent Retained 1/2"	2.6 %					
Fraction Passing 1/2 inch Screen - Dry Weight Basis						
Screen Opening	% Passing					
Passing 9.5mm	98.7 %					
Passing 6.4mm (1/4")	85.5 %					
Passing 4.75mm	64.2 %					
Passing 2.36mm	24.8 %					
Passing 1.00mm	6.5 %					
Passing 0.50mm	2.6 %					
Passing 0.50mm	2.6 %					



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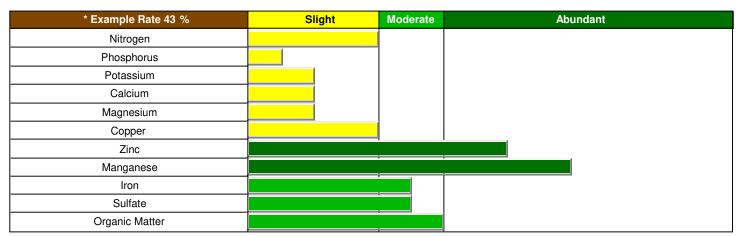
Sample Id: Black Mini Mulch

POTENTIAL RATE LIMIT FACTORS

		Cubic yard amendment per 1000 sf to 6"							
Test		1	2	3	4	5	6	7	8
	% Volume rate limit	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%).