



Soil & Plant Laboratory, Inc

Leaders in Soil & Plant Testing Since 1946
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02

SAN JOSE OFFICE
July 25, 2012
Report 12-198-0056b

REUSER, INC.
370 Santana Drive
Cloverdale, CA 95425

Attn: Merle Reuser

RE: "NITROLIZED SAWDUST" - SAMPLE REC'D 7/16/12

Total nitrogen is slightly higher than the normally preferred range for organic derived from redwood or fir wood, but is acceptable at 1%. About 85% of the nitrogen is in the preferred organic form and the surplus inorganic fraction is almost all in the ammoniacal form. This will not be problematic as long as this material is used at a normal amendment rate as this will convert quickly to nitrate once placed in the soil environment. Dilute acid soluble iron is typical for material that has not been iron treated.

As indicated on the last page the top bar graph shows that all chemical characteristics are non-limiting for use of this as a soil amendment.

The example rate shown is based on the organic matter content of the amendment and is rather high based on the moderate organic content of 220 pounds per cubic yard. This is equivalent to 8 cubic yards per 1000 square feet for blending to 6 inches depth. A more typical rate might be in the 6 to 7 cubic yard range.

About 99.5% of the amendment passed the 1/4-inch screen and 74.7% passed the 2.36 mm (about 1/8 inch). The very fine fraction is favorably low. This shows an excellent particle size distribution for improving structure in a wide range of soil types.

Salinity is safely low and the moderately alkaline pH is normal. Since no lime is present this should not have significant impact on pH of the soil being amended.

The bottom table on the last page shows that at this rate of use this would supply abundant immediately available nitrogen and magnesium. No other nutrients would be significantly supplied.

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

Meagan Hynes, Ph.D., APSS
Emailed 3 Pages: merlereuser@hotmail.com



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4741 E. Hunter Ave, Suite A Anaheim, CA 92807 714-282-8777 (phone) 714-282-8575 (fax)
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COMPOST / AMENDMENT EVALUATION

Send To :
Reuser, Inc.
370 Santana Dr.
Cloverdale CA 95425

Project :
Samples Rec'd. 7/16

Report Number : 12-198-0056
Customer Number : 00306
Date printed : 07/24/2012
Date received : 07/16/2012
Page : 3 of 14
Lab Number : 66938

Sample Id : Nitroliized Sawdust

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	1 %	1546 ppm		2.8
NH ₄ -N		1486 ppm		
NO ₃ -N		60 ppm		
Phosphorus (P)		63 ppm		0.2
Phosphorus (P ₂ O ₅)		144 ppm		
Potassium (K)		709 ppm	1.0 meq/L	0.7
Potassium (K ₂ O)		858 ppm		
Calcium (Ca)		1031 ppm	0.7 meq/L	0.2
Magnesium (Mg)		1483 ppm	0.4 meq/L	1.8
Sodium (Na)			0.3 meq/L	
Sulfur (S)				
Sulfate (SO ₄)			1.1 meq/L	0.4
Chloride (Cl)				
Copper (Cu)		0.5 ppm		0.1
Zinc (Zn)		11 ppm		0.8
Manganese (Mn)		19 ppm		0.6
Iron (Fe)		38 ppm		0.3
Dilute Acid Fe		0.03 %		
Boron (B)			0.09 ppm	0.3

Test	Result
pH (sat paste)	7.6 s.u.
% H ₂ O Sat.	279
TEC	286 meq/kg
Qualitative Lime	None
Salinity (EC of sat ext.)	0.8 dS/m
SAR (Sodium adsorption ratio)	0.39
Sodium as % of ECe	3 %
Bulk Density - Dry	233 lbs/yd ³
Bulk Density - As Received	421 lbs/yd ³
Moisture - As Received	44.8 %
Organic	94.6 %
Weight of organic / yd ³	220 lbs/yd ³
Weight of mineral / yd ³	13 lbs/yd ³
C/N Ratio	56.6

Gradation	% Passing
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	0.1 %
Fraction Passing 1/2 Inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	99.9 %
Passing 6.4mm (1/4")	99.5 %
Passing 4.75mm	94.2 %
Passing 2.36mm	74.7 %
Passing 1.00mm	38.6 %
Passing 0.50mm	14.4 %



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Sample Id : **Nitrolized Sawdust**

POTENTIAL RATE LIMIT FACTORS

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

	* 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%).