



San Jose Office
June 7, 2016
Report 16-152-0108

BARR-TECH
P.O. Box 19265
Spokane, WA 99219

Attn: Scott Deatherage

RE: BT-Triple Mix received 5/31/16

This mix has been designed to be ready for planting for use in outdoor planters and raised beds without the need for additional amending.

The reaction of the sample is slightly alkaline at a pH of 7.6 with qualitative lime favorably absent. This is higher than preferred by most plants and is likely to shift downward over time as the material continues to decompose. If it is desired to decrease the pH closer to neutral incorporation of soil sulfur is recommended. Soil sulfur should be incorporated at a rate of 1/2 pound per cubic yard of material. Soil sulfur works slowly and most efficiently only to the depth incorporated.

Salinity and sodium are safely low and the SAR value shows soluble sodium adequately balanced by calcium and magnesium. Boron is safely low and nutritionally adequate.

Immediately available nitrogen is abundant and about two-thirds is in the ammoniacal form. A particularly thorough initial irrigation is recommended in order to speed the conversion to the nitrate form. All of the other required nutrients are at sufficient levels for healthy plant growth.

No additional fertilizer should be applied at the time of planting.

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

A handwritten signature in black ink, appearing to read "Annmarie Lucchesi".

Annmarie Lucchesi
alucchesi@waypointanalytical.com

Emailed 2 Pages: scottd@barr-tech.net

SOIL ANALYSIS

Send To : Barr-Tech PO Box 19265 Spokane WA 99219	Project : Outdoor Grower Mix	Report No : 16-152-0108 Cust No : 07264 Date Printed : 06/02/2016 Date Received 05/31/2016 Page : 1 of 1 Lab Number : 33290
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Sample Id : **BT-Triple Mix**

SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	2.3 dS/m	<div></div>				
Sodium Adsorption Ratio (SAR) *	1.72	<div></div>				
Boron (B)	0.72 ppm	<div></div>				
Sodium (Na)	4.2 meq/L	<div></div>				
Chloride (Cl)						
Carbonate (CO ₃)						
Bicarbonate (HCO ₃)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime
pH	7.6 s.u.	<div></div>							None

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	260 ppm	3.3	<div></div>					85 ppm
Phosphorus (P) - Olsen	108 ppm	2.3	<div></div>					
Potassium (K)	478 ppm	2.1	<div></div>					NH4-N
Potassium - sat. ext.	6.6 meq/L							175 ppm
Calcium (Ca)	1559 ppm	0.8	<div></div>					
Calcium - sat. ext.	8.1 meq/L							Total Exchangeable Cations(TEC)
Magnesium (Mg)	243 ppm	0.9	<div></div>					
Magnesium - sat. ext.	3.9 meq/L							110 meq/kg
Copper (Cu)	2.4 ppm	1.7	<div></div>					
Zinc (Zn)	10 ppm	1.8	<div></div>					
Manganese (Mn)	30 ppm	2.5	<div></div>					
Iron (Fe)	251 ppm	4.7	<div></div>					
Boron (B) - sat. ext.	0.72 ppm	2.4	<div></div>					
Sulfate - sat. ext.	4.5 meq/L	1.5	<div></div>					
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Gravel		Weight Percent of Sample Passing 2mm Screen				Clay 0-.002	USDA Soil Classification
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Sand Coarse 0.5-1	Med. to Very Fine 0.05-0.5	Silt .002-.05		
40 %									