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352 Mathew Street Santa Clara, CA 95050 408-727-0330 (phone) 408-727-5125 (fax)
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SOIL ANALYSIS

Send To :	Project :	
L.H. Voss Materials, Inc. 2445 Del Vista Monte Concord CA 94520	Bioswale Mix	Report No : **09-239-0030** Cust No : 00420 Date Printed : 09/01/2009 Date Received : 08/27/2009 Page : 1 of 1 Lab Number : 21137

Sample Id : **Bioswale 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)	3.1 dS/m	
Sodium Adsorption Ratio (SAR) *	1.19	
Boron (B)	0.70 ppm	
Sodium (Na)	5.2 meq/L	
Chloride (Cl)		
Carbonate (CO3)		
Bicarbonate (HCO3)		
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	6.5 s.u.								None

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS: Very Low / Low / Medium / Optimum / Very High
Available-N	24 ppm	0.5	
Phosphorus (P) - Olsen	19 ppm	0.7	
Potassium (K)	119 ppm	1.0	
Potassium - sat. ext.	4.0 meq/L		
Calcium (Ca)	1055 ppm	1.1	
Calcium - sat. ext.	25.5 meq/L		
Magnesium (Mg)	199 ppm	1.5	
Magnesium - sat. ext.	12.2 meq/L		
Copper (Cu)	1.9 ppm	2.7	
Zinc (Zn)	13 ppm	4.7	
Manganese (Mn)	13 ppm	2.1	
Iron (Fe)	60 ppm	2.2	
Boron (B) - sat. ext.	0.70 ppm	2.3	
Sulfate - sat. ext.	43.9 meq/L	14.6	
Exch Aluminum			

NO3-N	NH4-N	Total Exchangeable Cations(TEC)
13 ppm	11 ppm	55 meq/kg

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

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen: Gravel Coarse 5-12	Gravel Fine 2-5	Sand Very Coarse 1-2	Sand Coarse 0.5-1	Sand Med. to Very Fine 0.05-0.5	Silt .002-.05	Clay 0-.002	USDA Soil Classification
22 %									

Graphical interpretation is a general guide. Optimum levels will vary by crop and objectives.