



Soil Testing

(We Use MLSN Guidelines)

 Nutritional Consulting Plant and Soil Analysis 9270 WINDLANTOWN ROAD UNIT C8 JUPITER, FLORIDA 33478 239-707-9974					MCARTHUR GOLF CLUB Course Name: McArthur East Date: 3/21/2023 Sample ID: GRN 4 Superintendent: THOMAS BARRETT					
Category	Target Range		Actual Data	Remarks	CATEGORY	meq/ltr				
pH	6.7 to 7		7.2	High	EC - (mmhos/cm)	1.3				
Organic Matter	0.5 to 1.8		1.1	Good	Saturation Index	39.6				
CEC	5 to 10		3.5	Low	SOIL SOLUTION	meq/ltr	ppm	ppm %	ANIONS	
Saturation Index	30 to 45		39.6	Good	Sodium	8.1	185.6	50.5%		
Soil Reserve	Target Range		Actual Data	Remarks	Calcium	3.8	91.7	24.9%		
Nitrate N - ppm	10 to 25		3.2	Low	Magnesium	1.9	23.6	6.4%		
Phosphorous - ppm	20 to 29		9.0	Low	Potassium	1.1	43.3	11.8%		
Potassium - ppm	69 to 84		101.0	High	Amonium Nitrogen	0.2	3.0	0.8%		
Magnesium - ppm	48 to 61		72.9	High	Nitrate Nitrogen	0.0	3.0	0.8%		
Calcium - ppm	349 to 450		464.0	High	Phosphorous	0.0	1.3	0.4%		
Sulfur - ppm	6 to 10.5		9.4	Good	Bicarbonate	0.1	3.4	0.9%	21%	
Zinc - ppm	2.2 to 4.6		3.7	Good	Sulfate	0.1	7.0	1.9%	44%	
Manganese - ppm	11.5 to 27		4.5	Low	Chloride	0.2	5.6	1.5%	35%	
Copper - ppm	0.8 to 1.8		0.2	Low	Boron		0.2	0.1%		
Iron - ppm	7 to 28		14.5	Good	ELEMENT	DATA	% PBS	IDEAL	REMARKS	
Boron - ppm	0.8 to 1.5		0.2	Low	SAR	1.8				
<i>Soil pH and Buffer</i>					% Sodium	8.1	54%	10%	High	
pH	6.2 to 6.7		7.2	High	% Calcium	3.8	26%	53%	Low	
Buffer pH			7.5		% Magnesium	1.9	13%	22%	Low	
<i>Carbonates and Salts</i>					% Potassium	1.1	7%	15%	Low	
Excess Carbonates	5 to 25		0.0	Low	GUIDELINES				REMARKS	
Soluble Salts	0.01 to 2.9		1.3	Good	Ca:Na (Ideal 5:1)	0.5	To	1	Low	
Na - ppm	0 to 8		70.1	High	Na (< 1.5)	8.07			High	
<i>Base Saturation</i>					Ca+Mg > HCO3	Ca+Mg	HCO3			
% Potassium	2 to 5		14%	Low	Actual----->	5.71	0.05		Ideal	
% Magnesium	10 to 15		10%	Low	Na>Cl	Na	Cl			
% Calcium	65 to 75		66%	Low	Actual----->	8.07	0.16		Ideal	
% Sodium	1 to 2		10%	Low	NO3:NH4 (Ideal 3:1)	1.0	To	1	Low	
% Hydrogen			0%		K>N (Minimum 1.3:1)	0.1	To	1	Low	
<i>Critical Ratio's</i>										
Ca:K Ratio	13 to 1		4.6	Low						
Ca:Mg Ratio	8 to 1		6.4	Low						
Mg:K Ratio	1.5 to 1		0.7	Low						
Ca:Na Ratio	35 to 1		6.6	Low						
Mg:Na Ratio	4.5 to 1		1.0	Low						
K:Na Ratio	2 to 1		1.4	Low						