

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

91984-8

Name Freestone Club City Fairfield State TXIndependent Consultant Soil and Water Consulting Date 10/15/2024

Sample Location			GOLD SPRING		CAPPING				
Sample Identification					MATERIAL				
Lab Number					0062-1				
Total Exchange Capacity (ME/100 g)					3.41				
pH (H ₂ O 1:1)					a 7.9				
Organic Matter (360°C LOI) %					0.53				
Estimated Nitrogen Release			lb/A		21				
ANIONS	SOLUBLE SULFUR*			ppm	4				
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅ ppm of P					
		BRAY II	lb/A	P as P ₂ O ₅ ppm of P					
		OLSEN	lb/A	P as P ₂ O ₅ ppm of P	9 2				
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1228					
			ppm	614					
	MAGNESIUM*		lb/A	38					
			ppm	19					
	POTASSIUM*		lb/A	28					
			ppm	14					
	SODIUM*		lb/A	14					
			ppm	7					
BASE SATURATION PERCENT									
Calcium			%	90.03					
Magnesium			%	4.64					
Potassium			%	1.05					
Sodium			%	0.89					
Other Bases			%	3.50					
Hydrogen			%	0.00					
EXTRACTABLE MINORS									
Boron** (ppm)				< 0.20					
Iron** (ppm)				42					
Manganese** (ppm)				18					
Copper** (ppm)				0.33					
Zinc** (ppm)				2.77					
Aluminum** (ppm)				288					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO3-N (ppm)				0.6				
	NH4-N (ppm)				1.4				

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		BRACKENS	CAPPING				
Sample Identification			MATERIAL				
Lab Number			0063-1				
Total Exchange Capacity (ME/100 g)			9.07				
pH (H ₂ O 1:1)			a 8.3				
Organic Matter (360°C LOI) %			0.72				
Estimated Nitrogen Release lb/A			29				
ANIONS	SOLUBLE SULFUR*	ppm	4				
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P					
	BRAY II	lb/A P as P ₂ O ₅ ppm of P					
	OLSEN	lb/A P as P ₂ O ₅ ppm of P	23 5				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3414 1707				
	MAGNESIUM*	lb/A ppm	44 22				
	POTASSIUM*	lb/A ppm	30 15				
	SODIUM*	lb/A ppm	14 7				
BASE SATURATION PERCENT							
	Calcium	%	94.10				
	Magnesium	%	2.02				
	Potassium	%	0.42				
	Sodium	%	0.34				
	Other Bases	%	3.10				
	Hydrogen	%	0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		< 0.20				
	Iron** (ppm)		52				
	Manganese** (ppm)		32				
	Copper** (ppm)		0.41				
	Zinc** (ppm)		0.46				
	Aluminum** (ppm)		176				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		3.9				
	NH ₄ -N (ppm)		0.7				

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Sample Location			RUTHERFORD	CAPPING				
Sample Identification				MATERIAL				
Lab Number				0064-1				
Total Exchange Capacity (ME/100 g)				1.48				
pH (H ₂ O 1:1)				5.6				
Organic Matter (360°C LOI) %				0.13				
Estimated Nitrogen Release			lb/A	5				
ANIONS	SOLUBLE SULFUR*			ppm	3			
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅	ppm of P				
		BRAY II	lb/A P as P ₂ O ₅	ppm of P				
		OLSEN	lb/A P as P ₂ O ₅	ppm of P	9 2			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	300				
			ppm	150				
	MAGNESIUM*		lb/A	44				
			ppm	22				
	POTASSIUM*		lb/A	24				
			ppm	12				
	SODIUM*		lb/A	12				
			ppm	6				
BASE SATURATION PERCENT								
Calcium %				50.68				
Magnesium %				12.39				
Potassium %				2.08				
Sodium %				1.76				
Other Bases %				6.20				
Hydrogen %				27.00				
EXTRACTABLE MINORS								
Boron** (ppm)				< 0.20				
Iron** (ppm)				50				
Manganese** (ppm)				8				
Copper** (ppm)				0.23				
Zinc** (ppm)				< 0.4				
Aluminum** (ppm)				164				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			1.1				
	NH4-N (ppm)			1.2				

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