

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

55476-23

Name Coyote Springs Golf Club City Coyote Springs State NVIndependent Consultant Soil and Water Consulting Date 10/10/2024

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0332-1	0333-1			
Total Exchange Capacity (ME/100 g)		16.64	17.87			
pH (H ₂ O 1:1)		a 8.5	a 9.0			
Organic Matter (360°C LOI) %		1.97	2.40			
Estimated Nitrogen Release	lb/A	59	68			
ANIONS	SOLUBLE SULFUR*	ppm	39	47		
	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	142 31	73 16		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4544 2272	4822 2411		
	MAGNESIUM*	lb/A ppm	702 351	784 392		
	POTASSIUM*	lb/A ppm	694 347	792 396		
	SODIUM*	lb/A ppm	452 226	510 255		
BASE SATURATION PERCENT						
	Calcium	%	68.27	67.46		
	Magnesium	%	17.58	18.28		
	Potassium	%	5.35	5.68		
	Sodium	%	5.91	6.20		
	Other Bases	%	2.90	2.40		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.78	2.16		
	Iron** (ppm)		32	25		
	Manganese** (ppm)		21	19		
	Copper** (ppm)		1.27	1.12		
	Zinc** (ppm)		4.80	4.51		
	Aluminum** (ppm)		7	5		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		19.2	14.0		
	NH ₄ -N (ppm)		27.1	48.7		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	2	11			
Sample Identification						
Lab Number		0334-1	0335-1			
Total Exchange Capacity (ME/100 g)		15.49	17.17			
pH (H ₂ O 1:1)		a 8.6	a 8.9			
Organic Matter (360°C LOI) %		1.01	2.03			
Estimated Nitrogen Release lb/A		40	61			
ANIONS	SOLUBLE SULFUR*	ppm	26	53		
	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	55 12	124 27		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4430 2215	4606 2303		
	MAGNESIUM*	lb/A ppm	602 301	720 360		
	POTASSIUM*	lb/A ppm	608 304	874 437		
	SODIUM*	lb/A ppm	318 159	510 255		
BASE SATURATION PERCENT						
	Calcium	%	71.50	67.06		
	Magnesium	%	16.19	17.47		
	Potassium	%	5.03	6.53		
	Sodium	%	4.46	6.46		
	Other Bases	%	2.80	2.50		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.09	1.46		
	Iron** (ppm)		14	27		
	Manganese** (ppm)		14	23		
	Copper** (ppm)		0.43	0.87		
	Zinc** (ppm)		1.65	2.95		
	Aluminum** (ppm)		4	3		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		11.9	16.8		
	NH ₄ -N (ppm)		8.2	80.8		

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Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		0336-1	0337-1			
Total Exchange Capacity (ME/100 g)		9.91	10.55			
pH (H ₂ O 1:1)		a 8.6	a 8.8			
Organic Matter (360°C LOI) %		0.89	1.41			
Estimated Nitrogen Release lb/A		36	48			
ANIONS	SOLUBLE SULFUR*	ppm	34	45		
	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	41 9	60 13		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2992 1496	3210 1605		
	MAGNESIUM*	lb/A ppm	300 150	318 159		
	POTASSIUM*	lb/A ppm	316 158	282 141		
	SODIUM*	lb/A ppm	228 114	258 129		
BASE SATURATION PERCENT						
	Calcium	%	75.48	76.07		
	Magnesium	%	12.61	12.56		
	Potassium	%	4.09	3.43		
	Sodium	%	5.00	5.32		
	Other Bases	%	2.80	2.60		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.71	1.11		
	Iron** (ppm)		48	64		
	Manganese** (ppm)		32	67		
	Copper** (ppm)		2.33	2.23		
	Zinc** (ppm)		9.13	10.85		
	Aluminum** (ppm)		87	45		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		2.7	2.0		
	NH4-N (ppm)		62.0	20.5		

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Sample Location		ROUGH	2				
Sample Identification							
Lab Number			0829-1				
Total Exchange Capacity (ME/100 g)			20.53				
pH (H ₂ O 1:1)			a 8.8				
Organic Matter (360°C LOI) %			3.01				
Estimated Nitrogen Release lb/A			80				
ANIONS	SOLUBLE SULFUR* ppm		120				
	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	179 39				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5634 2817				
	MAGNESIUM* lb/A ppm		718 359				
	POTASSIUM* lb/A ppm		766 383				
	SODIUM* lb/A ppm		890 445				
BASE SATURATION PERCENT							
Calcium %			68.61				
Magnesium %			14.57				
Potassium %			4.78				
Sodium %			9.42				
Other Bases %			2.60				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			3.06				
Iron** (ppm)			42				
Manganese** (ppm)			20				
Copper** (ppm)			1.55				
Zinc** (ppm)			6.40				
Aluminum** (ppm)			9				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)						
	NH ₄ -N (ppm)						

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