

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

55476-22

Name Coyote Springs Golf Club City Coyote Springs State NVIndependent Consultant Soil and Water Consulting Date 4/22/2024

Sample Location	TEE	9	18			
Sample Identification						
Lab Number		0386-1	0387-1			
Total Exchange Capacity (ME/100 g)		14.11	14.95			
pH (H ₂ O 1:1)		a 8.5	a 8.5			
Organic Matter (360°C LOI) %		1.48	2.01			
Estimated Nitrogen Release	lb/A	50	60			
ANIONS	SOLUBLE SULFUR*	ppm	31	34		
	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				
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅ ppm of P	55 12	50 11		
	CALCIUM*	lb/A ppm	4050 2025	4194 2097		
	MAGNESIUM*	lb/A ppm	588 294	652 326		
	POTASSIUM*	lb/A ppm	468 234	552 276		
	SODIUM*	lb/A ppm	244 122	280 140		
BASE SATURATION PERCENT						
	Calcium	%	71.76	70.13		
	Magnesium	%	17.36	18.17		
	Potassium	%	4.25	4.73		
	Sodium	%	3.76	4.07		
	Other Bases	%	2.90	2.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.15	1.52		
	Iron** (ppm)		24	19		
	Manganese** (ppm)		21	14		
	Copper** (ppm)		0.92	0.61		
	Zinc** (ppm)		2.91	4.40		
	Aluminum** (ppm)		4	6		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.0	6.1		
	NH ₄ -N (ppm)		16.5	3.3		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	9	18			
Sample Identification						
Lab Number		0388-1	0389-1			
Total Exchange Capacity (ME/100 g)		13.61	14.66			
pH (H ₂ O 1:1)		a 8.5	a 8.6			
Organic Matter (360°C LOI) %		1.39	1.48			
Estimated Nitrogen Release lb/A		48	50			
ANIONS	SOLUBLE SULFUR*	ppm	21	25		
	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	50 11		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3930	4146		
		ppm	1965	2073		
	MAGNESIUM*	lb/A	568	622		
		ppm	284	311		
	POTASSIUM*	lb/A	450	570		
		ppm	225	285		
	SODIUM*	lb/A	204	260		
		ppm	102	130		
BASE SATURATION PERCENT						
	Calcium	%	72.19	70.70		
	Magnesium	%	17.39	17.68		
	Potassium	%	4.24	4.98		
	Sodium	%	3.26	3.86		
	Other Bases	%	2.90	2.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.08	1.03		
	Iron** (ppm)		11	10		
	Manganese** (ppm)		12	11		
	Copper** (ppm)		0.41	0.29		
	Zinc** (ppm)		2.30	2.06		
	Aluminum** (ppm)		3	4		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		1.1	3.2		
	NH4-N (ppm)		5.0	5.3		

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Sample Location	GREEN	9	18	CHIPPING		
Sample Identification						
Lab Number		0390-1	0391-1	0392-1		
Total Exchange Capacity (ME/100 g)		10.29	9.95	8.29		
pH (H ₂ O 1:1)		a 8.5	a 8.5	a 8.8		
Organic Matter (360°C LOI) %		0.78	0.98	0.81		
Estimated Nitrogen Release lb/A		31	39	32		
ANIONS	SOLUBLE SULFUR*	ppm	36	35	18	
	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	37 8	9 2	< 9 < 2	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3272	3104	2582	
		ppm	1636	1552	1291	
	MAGNESIUM*	lb/A	282	282	232	
		ppm	141	141	116	
	POTASSIUM*	lb/A	244	294	258	
		ppm	122	147	129	
	SODIUM*	lb/A	150	160	146	
		ppm	75	80	73	
BASE SATURATION PERCENT						
	Calcium	%	79.49	77.99	77.86	
	Magnesium	%	11.42	11.81	11.66	
	Potassium	%	3.04	3.79	3.99	
	Sodium	%	3.17	3.50	3.83	
	Other Bases	%	2.90	2.90	2.60	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		1.10	0.75	0.76	
	Iron** (ppm)		38	41	44	
	Manganese** (ppm)		33	30	21	
	Copper** (ppm)		1.55	1.88	0.94	
	Zinc** (ppm)		6.21	7.10	2.27	
	Aluminum** (ppm)		84	36	75	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.5	1.6	4.8	
	NH ₄ -N (ppm)		3.1	2.2	21.6	

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