

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-50

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 3/19/2024

Sample Location	TEE	9	18			
Sample Identification						
Lab Number		0987-1	0988-1			
Total Exchange Capacity (ME/100 g)		9.82	11.65			
pH (H ₂ O 1:1)		a 8.8	a 8.2			
Organic Matter (360°C LOI) %		0.31	3.15			
Estimated Nitrogen Release	lb/A	12	82			
ANIONS	SOLUBLE SULFUR*	ppm	6	11		
	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	32 7	18 4		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3328	3720		
		ppm	1664	1860		
	MAGNESIUM*	lb/A	216	204		
		ppm	108	102		
	POTASSIUM*	lb/A	150	378		
		ppm	75	189		
	SODIUM*	lb/A	68	296		
		ppm	34	148		
BASE SATURATION PERCENT						
	Calcium	%	84.73	79.83		
	Magnesium	%	9.16	7.30		
	Potassium	%	1.96	4.16		
	Sodium	%	1.51	5.52		
	Other Bases	%	2.60	3.20		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		< 0.20	1.37		
	Iron** (ppm)		24	110		
	Manganese** (ppm)		19	54		
	Copper** (ppm)		0.26	3.73		
	Zinc** (ppm)		0.96	13.89		
	Aluminum** (ppm)		3	71		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		1.8	10.0		
	NH4-N (ppm)		2.2	3.1		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>			9	18			
Sample Identification							
Lab Number			0989-1	0990-1			
Total Exchange Capacity (ME/100 g)			9.80	8.75			
pH (H ₂ O 1:1)			a 7.9	a 7.6			
Organic Matter (360°C LOI) %			3.05	2.27			
Estimated Nitrogen Release lb/A			80	65			
ANIONS	SOLUBLE SULFUR* ppm		12	8			
	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		101 22	124 27			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		2926 1463	2520 1260			
	MAGNESIUM* lb/A ppm		212 106	190 95			
	POTASSIUM* lb/A ppm		446 223	606 303			
	SODIUM* lb/A ppm		316 158	252 126			
	BASE SATURATION PERCENT						
	Calcium %		74.64	72.00			
	Magnesium %		9.01	9.05			
	Potassium %		5.83	8.88			
	Sodium %		7.01	6.26			
	Other Bases %		3.50	3.80			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.16	0.83			
Iron** (ppm)			199	243			
Manganese** (ppm)			33	46			
Copper** (ppm)			3.12	2.88			
Zinc** (ppm)			12.89	13.02			
Aluminum** (ppm)			115	139			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		12.1	10.8			
	NH ₄ -N (ppm)		4.1	3.9			

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Sample Location	GREEN	9	18			
Sample Identification						
Lab Number		0991-1	0992-1			
Total Exchange Capacity (ME/100 g)		5.59	6.15			
pH (H ₂ O 1:1)		a 8.8	a 8.6			
Organic Matter (360°C LOI) %		0.55	0.64			
Estimated Nitrogen Release lb/A		22	26			
ANIONS	SOLUBLE SULFUR*	ppm	6	7		
	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	27 6	27 6		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1660 830	1846 923		
	MAGNESIUM*	lb/A ppm	190 95	198 99		
	POTASSIUM*	lb/A ppm	164 82	188 94		
	SODIUM*	lb/A ppm	136 68	138 69		
BASE SATURATION PERCENT						
	Calcium	%	74.24	75.04		
	Magnesium	%	14.16	13.41		
	Potassium	%	3.76	3.92		
	Sodium	%	5.29	4.88		
	Other Bases	%	2.60	2.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.30	0.42		
	Iron** (ppm)		88	80		
	Manganese** (ppm)		14	16		
	Copper** (ppm)		0.37	0.32		
	Zinc** (ppm)		1.00	1.12		
	Aluminum** (ppm)		81	79		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	< 0.5		
	NH ₄ -N (ppm)		2.2	< 0.5		

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