

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-51

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 7/11/2024

Sample Location	TEE	3	12			
Sample Identification						
Lab Number		1018-1	1019-1			
Total Exchange Capacity (ME/100 g)		11.32	10.66			
pH (H ₂ O 1:1)		a 7.8	a 8.1			
Organic Matter (360°C LOI) %		3.30	2.56			
Estimated Nitrogen Release	lb/A	83	71			
ANIONS	SOLUBLE SULFUR*	ppm	55	28		
	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	14 3		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3356	3160		
		ppm	1678	1580		
	MAGNESIUM*	lb/A	250	252		
		ppm	125	126		
	POTASSIUM*	lb/A	502	468		
		ppm	251	234		
	SODIUM*	lb/A	386	348		
		ppm	193	174		
BASE SATURATION PERCENT						
	Calcium	%	74.12	74.11		
	Magnesium	%	9.20	9.85		
	Potassium	%	5.69	5.63		
	Sodium	%	7.41	7.10		
	Other Bases	%	3.60	3.30		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.36	1.06		
	Iron** (ppm)		183	134		
	Manganese** (ppm)		55	51		
	Copper** (ppm)		2.79	2.75		
	Zinc** (ppm)		14.42	12.74		
	Aluminum** (ppm)		94	62		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)		38.6	28.6		
	NH4-N (ppm)		112.3	69.6		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	3	12			
Sample Identification						
Lab Number		1021-1	1022-1			
Total Exchange Capacity (ME/100 g)		10.88	10.23			
pH (H ₂ O 1:1)		7.2	^a 8.1			
Organic Matter (360°C LOI) %		2.53	1.46			
Estimated Nitrogen Release lb/A		71	49			
ANIONS	SOLUBLE SULFUR*	ppm	20	19		
	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	110 24	27 6		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3272 1636	3266 1633		
	MAGNESIUM*	lb/A ppm	254 127	166 83		
	POTASSIUM*	lb/A ppm	524 262	510 255		
	SODIUM*	lb/A ppm	234 117	176 88		
BASE SATURATION PERCENT						
	Calcium	%	75.18	79.81		
	Magnesium	%	9.73	6.76		
	Potassium	%	6.17	6.39		
	Sodium	%	4.68	3.74		
	Other Bases	%	4.20	3.30		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.17	0.61		
	Iron** (ppm)		335	180		
	Manganese** (ppm)		42	75		
	Copper** (ppm)		3.96	2.40		
	Zinc** (ppm)		15.03	8.20		
	Aluminum** (ppm)		116	148		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		34.0	7.7		
	NH ₄ -N (ppm)		12.3	11.1		

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Sample Location	GREEN	3	12			
Sample Identification						
Lab Number		1023-1	1024-1			
Total Exchange Capacity (ME/100 g)		4.86	6.86			
pH (H ₂ O 1:1)		a 8.5	a 8.8			
Organic Matter (360°C LOI) %		0.58	0.67			
Estimated Nitrogen Release lb/A		23	27			
ANIONS	SOLUBLE SULFUR*	ppm	8	15		
	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	46 10		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1314 657	1950 975		
	MAGNESIUM*	lb/A ppm	198 99	256 128		
	POTASSIUM*	lb/A ppm	238 119	342 171		
	SODIUM*	lb/A ppm	138 69	140 70		
BASE SATURATION PERCENT						
	Calcium	%	67.59	71.06		
	Magnesium	%	16.98	15.55		
	Potassium	%	6.28	6.39		
	Sodium	%	6.17	4.44		
	Other Bases	%	2.90	2.60		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.34	0.23		
	Iron** (ppm)		51	60		
	Manganese** (ppm)		13	11		
	Copper** (ppm)		< 0.2	0.26		
	Zinc** (ppm)		0.57	0.57		
	Aluminum** (ppm)		54	32		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		8.1	10.3		
	NH ₄ -N (ppm)		88.7	240.5		

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