

BROOKSIDE LABORATORIES, INC. 34998-32

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 9/30/2021

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0038-1	0039-1			
Total Exchange Capacity (ME/100 g)		18.10	10.43			
pH (H ₂ O 1:1)		a 8.1	a 8.0			
Organic Matter (360°C LOI) %		2.86	2.29			
Estimated Nitrogen Release lb/A		77	66			
ANIONS	SOLUBLE SULFUR* ppm	35	29			
	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	41 9			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	6030	3314			
	ppm	3015	1657			
	MAGNESIUM* lb/A	284	194			
	ppm	142	97			
	POTASSIUM* lb/A	488	336			
	ppm	244	168			
	SODIUM* lb/A	284	254			
	ppm	142	127			
BASE SATURATION PERCENT						
	Calcium %	83.29	79.43			
	Magnesium %	6.54	7.75			
	Potassium %	3.46	4.13			
	Sodium %	3.41	5.29			
	Other Bases %	3.30	3.40			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)	1.00	1.15			
	Iron** (ppm)	96	130			
	Manganese** (ppm)	79	55			
	Copper** (ppm)	3.59	2.95			
	Zinc** (ppm)	7.05	14.37			
	Aluminum** (ppm)	63	100			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	10.3	14.1			
	NH ₄ -N (ppm)	3.1	27.8			

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		0040-1	0041-1			
Total Exchange Capacity (ME/100 g)		13.84	12.57			
pH (H ₂ O 1:1)		^a 7.7	7.3			
Organic Matter (360°C LOI) %		2.83	3.75			
Estimated Nitrogen Release lb/A		77	88			
ANIONS	SOLUBLE SULFUR*	ppm	32	31		
	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	87 19		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4390 2195	3914 1957		
	MAGNESIUM*	lb/A ppm	258 129	238 119		
	POTASSIUM*	lb/A ppm	620 310	644 322		
	SODIUM*	lb/A ppm	220 110	206 103		
BASE SATURATION PERCENT						
	Calcium	%	79.30	77.84		
	Magnesium	%	7.77	7.89		
	Potassium	%	5.74	6.57		
	Sodium	%	3.46	3.56		
	Other Bases	%	3.70	4.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.29	1.07		
	Iron** (ppm)		123	143		
	Manganese** (ppm)		65	50		
	Copper** (ppm)		3.46	2.92		
	Zinc** (ppm)		10.38	9.62		
	Aluminum** (ppm)		80	88		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		26.5	22.9		
	NH ₄ -N (ppm)		27.3	4.0		

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Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		0042-1	0043-1			
Total Exchange Capacity (ME/100 g)		6.53	6.88			
pH (H ₂ O 1:1)		a 7.6	a 7.7			
Organic Matter (360°C LOI) %		1.02	0.94			
Estimated Nitrogen Release lb/A		40	38			
ANIONS	SOLUBLE SULFUR*	ppm	56	61		
	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	50 11	78 17		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1818 909	1802 901		
	MAGNESIUM*	lb/A ppm	162 81	190 95		
	POTASSIUM*	lb/A ppm	522 261	636 318		
	SODIUM*	lb/A ppm	182 91	238 119		
BASE SATURATION PERCENT						
	Calcium	%	69.60	65.48		
	Magnesium	%	10.34	11.51		
	Potassium	%	10.25	11.85		
	Sodium	%	6.06	7.52		
	Other Bases	%	3.80	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.84	0.66		
	Iron** (ppm)		147	96		
	Manganese** (ppm)		105	77		
	Copper** (ppm)		3.77	2.86		
	Zinc** (ppm)		14.98	13.48		
	Aluminum** (ppm)		287	288		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		0.6	7.4		
	NH ₄ -N (ppm)		6.7	42.0		

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