

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-31

 Name Tucson Country Club City Tucson State AZ

 Independent Consultant Soil and Water Consulting Date 6/22/2021

Sample Location	TEE	3	12			
Sample Identification						
Lab Number		0835-1	0836-1			
Total Exchange Capacity (ME/100 g)		16.82	13.72			
pH (H ₂ O 1:1)		a 7.8	a 8.0			
Organic Matter (360°C LOI) %		3.99	2.90			
Estimated Nitrogen Release	lb/A	90	78			
ANIONS	SOLUBLE SULFUR*	ppm	64	22		
	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	64 14	37 8		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4946 2473	3944 1972		
	MAGNESIUM*	lb/A ppm	508 254	450 225		
	POTASSIUM*	lb/A ppm	574 287	520 260		
	SODIUM*	lb/A ppm	458 229	392 196		
BASE SATURATION PERCENT						
	Calcium	%	73.51	71.87		
	Magnesium	%	12.58	13.67		
	Potassium	%	4.38	4.86		
	Sodium	%	5.92	6.21		
	Other Bases	%	3.60	3.40		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.02	1.08		
	Iron** (ppm)		115	144		
	Manganese** (ppm)		80	50		
	Copper** (ppm)		2.65	2.97		
	Zinc** (ppm)		9.85	15.09		
	Aluminum** (ppm)		99	101		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		17.0	9.3		
	NH ₄ -N (ppm)		9.9	2.2		

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		0837-1	0838-1			
Total Exchange Capacity (ME/100 g)		14.57	22.40			
pH (H ₂ O 1:1)		a 7.6	a 8.2			
Organic Matter (360°C LOI) %		4.15	6.01			
Estimated Nitrogen Release lb/A		92	105			
ANIONS	SOLUBLE SULFUR*	ppm	63	64		
	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	137 30	5 1		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3862 1931	6686 3343		
	MAGNESIUM*	lb/A ppm	536 268	638 319		
	POTASSIUM*	lb/A ppm	600 300	730 365		
	SODIUM*	lb/A ppm	624 312	632 316		
BASE SATURATION PERCENT						
	Calcium	%	66.27	74.62		
	Magnesium	%	15.33	11.87		
	Potassium	%	5.28	4.18		
	Sodium	%	9.31	6.13		
	Other Bases	%	3.80	3.20		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.13	1.70		
	Iron** (ppm)		309	129		
	Manganese** (ppm)		29	51		
	Copper** (ppm)		3.89	4.81		
	Zinc** (ppm)		16.72	11.83		
	Aluminum** (ppm)		140	53		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		16.4	10.5		
	NH ₄ -N (ppm)		8.4	2.5		

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Sample Location	GREEN	3	12			
Sample Identification						
Lab Number		0839-1	0840-1			
Total Exchange Capacity (ME/100 g)		10.36	10.26			
pH (H ₂ O 1:1)		a 8.1	a 8.0			
Organic Matter (360°C LOI) %		1.44	1.08			
Estimated Nitrogen Release lb/A		49	42			
ANIONS	SOLUBLE SULFUR* ppm	34	21			
	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	78 17	41 9			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2532	2646			
	ppm	1266	1323			
	MAGNESIUM* lb/A	440	392			
	ppm	220	196			
	POTASSIUM* lb/A	718	672			
	ppm	359	336			
	SODIUM* lb/A	430	368			
	ppm	215	184			
BASE SATURATION PERCENT						
Calcium	%	61.10	64.47			
Magnesium	%	17.70	15.92			
Potassium	%	8.89	8.40			
Sodium	%	9.02	7.80			
Other Bases	%	3.30	3.40			
Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.77	0.60			
Iron** (ppm)		143	92			
Manganese** (ppm)		99	47			
Copper** (ppm)		4.64	1.16			
Zinc** (ppm)		18.65	7.49			
Aluminum** (ppm)		303	184			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.9	2.2			
	NH ₄ -N (ppm)	3.6	4.7			

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