

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-33

 Name Tucson Country Club City Tucson State AZ

 Independent Consultant Soil and Water Consulting Date 3/24/2022

Sample Location	TEE	5	14			
Sample Identification						
Lab Number		0809-1	0810-1			
Total Exchange Capacity (ME/100 g)		13.37	9.22			
pH (H ₂ O 1:1)		a 8.2	a 8.0			
Organic Matter (360°C LOI) %		3.28	3.09			
Estimated Nitrogen Release lb/A		83	81			
ANIONS	SOLUBLE SULFUR*	ppm	23	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	46 10	41 9		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4228	2878		
		ppm	2114	1439		
	MAGNESIUM*	lb/A	284	214		
		ppm	142	107		
	POTASSIUM*	lb/A	350	244		
		ppm	175	122		
	SODIUM*	lb/A	340	232		
		ppm	170	116		
BASE SATURATION PERCENT						
	Calcium	%	79.06	78.04		
	Magnesium	%	8.85	9.67		
	Potassium	%	3.36	3.39		
	Sodium	%	5.53	5.47		
	Other Bases	%	3.20	3.40		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.08	0.95		
	Iron** (ppm)		94	114		
	Manganese** (ppm)		35	42		
	Copper** (ppm)		2.90	2.42		
	Zinc** (ppm)		10.28	12.06		
	Aluminum** (ppm)		61	84		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.4	11.5		
	NH ₄ -N (ppm)		3.3	3.9		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	5			
Sample Identification					
Lab Number		0811-1			
Total Exchange Capacity (ME/100 g)		10.24			
pH (H ₂ O 1:1)		7.2			
Organic Matter (360°C LOI) %		3.83			
Estimated Nitrogen Release	lb/A	88			
ANIONS	SOLUBLE SULFUR*	ppm	17		
	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		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3034 1517		
	MAGNESIUM*	lb/A ppm	258 129		
	POTASSIUM*	lb/A ppm	446 223		
	SODIUM*	lb/A ppm	264 132		
BASE SATURATION PERCENT					
	Calcium	%	74.07		
	Magnesium	%	10.50		
	Potassium	%	5.58		
	Sodium	%	5.60		
	Other Bases	%	4.20		
	Hydrogen	%	0.00		
EXTRACTABLE MINORS					
	Boron** (ppm)		0.77		
	Iron** (ppm)		211		
	Manganese** (ppm)		20		
	Copper** (ppm)		3.23		
	Zinc** (ppm)		15.17		
	Aluminum** (ppm)		130		
OTHER TESTS	Soluble Salts (mmhos/cm)				
	Chlorides (ppm)				
	NO ₃ -N (ppm)		1.3		
	NH ₄ -N (ppm)		4.5		

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Sample Location	GREEN		14			
Sample Identification						
Lab Number			0814-1			
Total Exchange Capacity (ME/100 g)			5.91			
pH (H ₂ O 1:1)		a	7.4			
Organic Matter (360°C LOI) %			0.90			
Estimated Nitrogen Release lb/A			36			
ANIONS	SOLUBLE SULFUR*	ppm	16			
	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	78 17			
	CALCIUM*	lb/A ppm	1672 836			
	MAGNESIUM*	lb/A ppm	180 90			
	POTASSIUM*	lb/A ppm	386 193			
	SODIUM*	lb/A ppm	114 57			
BASE SATURATION PERCENT						
	Calcium	%	70.73			
	Magnesium	%	12.69			
	Potassium	%	8.37			
	Sodium	%	4.19			
	Other Bases	%	4.00			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.60			
	Iron** (ppm)		98			
	Manganese** (ppm)		68			
	Copper** (ppm)		2.91			
	Zinc** (ppm)		12.72			
	Aluminum** (ppm)		211			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.8			
	NH ₄ -N (ppm)		3.3			

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Sample Location	GREEN	5				
Sample Identification						
Lab Number		0812-1				
Total Exchange Capacity (ME/100 g)		7.93				
pH (H ₂ O 1:1)		a 7.6				
Organic Matter (360°C LOI) %		0.73				
Estimated Nitrogen Release lb/A		29				
ANIONS	SOLUBLE SULFUR*	ppm	24			
	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			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2140 1070			
	MAGNESIUM*	lb/A ppm	224 112			
	POTASSIUM*	lb/A ppm	768 384			
	SODIUM*	lb/A ppm	164 82			
BASE SATURATION PERCENT						
	Calcium	%	67.47			
	Magnesium	%	11.77			
	Potassium	%	12.42			
	Sodium	%	4.50			
	Other Bases	%	3.80			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.33			
	Iron** (ppm)		84			
	Manganese** (ppm)		46			
	Copper** (ppm)		1.28			
	Zinc** (ppm)		7.62			
	Aluminum** (ppm)		213			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.0			
	NH ₄ -N (ppm)		4.7			

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Sample Location	FAIRWAY	14				
Sample Identification						
Lab Number		0813-1				
Total Exchange Capacity (ME/100 g)		10.42				
pH (H ₂ O 1:1)		7.3				
Organic Matter (360°C LOI) %		3.62				
Estimated Nitrogen Release lb/A		86				
ANIONS	SOLUBLE SULFUR*	ppm	20			
	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	41				
		9				
	CALCIUM*	lb/A	3092			
		ppm	1546			
	MAGNESIUM*	lb/A	250			
		ppm	125			
	POTASSIUM*	lb/A	538			
		ppm	269			
	SODIUM*	lb/A	244			
		ppm	122			
BASE SATURATION PERCENT						
	Calcium %		74.18			
	Magnesium %		10.00			
	Potassium %		6.62			
	Sodium %		5.09			
	Other Bases %		4.10			
	Hydrogen %		0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.81			
	Iron** (ppm)		129			
	Manganese** (ppm)		33			
	Copper** (ppm)		2.29			
	Zinc** (ppm)		9.84			
	Aluminum** (ppm)		98			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		8.2			
	NH ₄ -N (ppm)		3.9			

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