

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-28

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 07/21/2020

Sample Location	TEE	4	13			
Sample Identification						
Lab Number		0524-1	0525-1			
Total Exchange Capacity (ME/100 g)		13.71	17.49			
pH (H ₂ O 1:1)		a 7.8	a 7.5			
Organic Matter (360°C LOI) %		3.45	3.29			
Estimated Nitrogen Release	lb/A	84	83			
ANIONS	SOLUBLE SULFUR*	ppm	51	35		
	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	60 13	73 16		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4056	5648		
		ppm	2028	2824		
	MAGNESIUM*	lb/A	314	316		
		ppm	157	158		
	POTASSIUM*	lb/A	464	502		
		ppm	232	251		
	SODIUM*	lb/A	538	336		
		ppm	269	168		
BASE SATURATION PERCENT						
	Calcium	%	73.96	80.73		
	Magnesium	%	9.54	7.53		
	Potassium	%	4.34	3.68		
	Sodium	%	8.53	4.18		
	Other Bases	%	3.60	3.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.10	1.06		
	Iron** (ppm)		140	144		
	Manganese** (ppm)		60	37		
	Copper** (ppm)		3.29	2.97		
	Zinc** (ppm)		11.41	15.82		
	Aluminum** (ppm)		123	91		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		46.4	23.7		
	NH ₄ -N (ppm)		95.2	< 0.5		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	4	13			
Sample Identification						
Lab Number		0526-1	0527-1			
Total Exchange Capacity (ME/100 g)		12.07	15.39			
pH (H ₂ O 1:1)		6.8	^a 7.4			
Organic Matter (360°C LOI) %		4.04	3.74			
Estimated Nitrogen Release lb/A		90	87			
ANIONS	SOLUBLE SULFUR*	ppm	86	81		
	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	96 21	64 14		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3288 1644	4422 2211		
	MAGNESIUM*	lb/A ppm	286 143	366 183		
	POTASSIUM*	lb/A ppm	584 292	648 324		
	SODIUM*	lb/A ppm	458 229	628 314		
BASE SATURATION PERCENT						
	Calcium	%	68.10	71.83		
	Magnesium	%	9.87	9.91		
	Potassium	%	6.20	5.40		
	Sodium	%	8.25	8.87		
	Other Bases	%	4.60	4.00		
	Hydrogen	%	3.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.68	0.86		
	Iron** (ppm)		219	216		
	Manganese** (ppm)		22	22		
	Copper** (ppm)		2.66	3.21		
	Zinc** (ppm)		13.02	14.75		
	Aluminum** (ppm)		105	116		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		42.5	32.0		
	NH ₄ -N (ppm)		4.3	3.6		

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 Independent Consultant Soil and Water Consulting Date 07/21/2020

Sample Location	GREEN	4	13			
Sample Identification						
Lab Number		0528-1	0529-1			
Total Exchange Capacity (ME/100 g)		8.83	9.92			
pH (H ₂ O 1:1)		a 8.0	a 8.1			
Organic Matter (360°C LOI) %		0.99	1.07			
Estimated Nitrogen Release lb/A		40	41			
ANIONS	SOLUBLE SULFUR*	ppm	13	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	50 11		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2460 1230	2686 1343		
	MAGNESIUM*	lb/A ppm	246 123	280 140		
	POTASSIUM*	lb/A ppm	726 363	914 457		
	SODIUM*	lb/A ppm	196 98	248 124		
BASE SATURATION PERCENT						
	Calcium	%	69.65	67.69		
	Magnesium	%	11.61	11.76		
	Potassium	%	10.54	11.81		
	Sodium	%	4.83	5.43		
	Other Bases	%	3.40	3.30		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.56	0.60		
	Iron** (ppm)		126	124		
	Manganese** (ppm)		72	77		
	Copper** (ppm)		3.07	4.33		
	Zinc** (ppm)		14.15	16.40		
	Aluminum** (ppm)		264	314		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		5.3	9.9		
	NH ₄ -N (ppm)		26.1	69.4		

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** Mehlich III Extractable