

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-54

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 7/2/2025

Sample Location			TEE	6	15			
Sample Identification								
Lab Number				0896-1	0897-1			
Total Exchange Capacity (ME/100 g)				10.38	8.69			
pH (H ₂ O 1:1)				a 8.0	a 8.6			
Organic Matter (360°C LOI) %				2.87	0.83			
Estimated Nitrogen Release			lb/A	77	33			
ANIONS	SOLUBLE SULFUR*		ppm	29	33			
	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	23 5	46 10			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	3086 1543	2634 1317			
	MAGNESIUM*		lb/A ppm	246 123	154 77			
	POTASSIUM*		lb/A ppm	338 169	340 170			
	SODIUM*		lb/A ppm	392 196	360 180			
	BASE SATURATION PERCENT							
	Calcium	%		74.33	75.78			
	Magnesium	%		9.87	7.38			
	Potassium	%		4.17	5.02			
	Sodium	%		8.21	9.01			
	Other Bases	%		3.40	2.80			
	Hydrogen	%		0.00	0.00			
	EXTRACTABLE MINORS							
	Boron** (ppm)			1.04	0.42			
	Iron** (ppm)			119	26			
	Manganese** (ppm)			52	14			
	Copper** (ppm)			2.71	0.24			
	Zinc** (ppm)			13.41	1.45			
	Aluminum** (ppm)			113	7			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			8.0	< 0.5			
	NH ₄ -N (ppm)			1.9	1.2			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	6	15			
Sample Identification						
Lab Number		0898-1	0899-1			
Total Exchange Capacity (ME/100 g)		12.76	9.51			
pH (H ₂ O 1:1)		a 7.8	a 7.7			
Organic Matter (360°C LOI) %		3.73	4.65			
Estimated Nitrogen Release lb/A		87	96			
ANIONS	SOLUBLE SULFUR*	ppm	39	79		
	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	128 28		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3612 1806	2196 1098		
	MAGNESIUM*	lb/A ppm	292 146	244 122		
	POTASSIUM*	lb/A ppm	576 288	670 335		
	SODIUM*	lb/A ppm	604 302	826 413		
BASE SATURATION PERCENT						
	Calcium	%	70.77	57.73		
	Magnesium	%	9.54	10.69		
	Potassium	%	5.79	9.03		
	Sodium	%	10.29	18.88		
	Other Bases	%	3.60	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.29	1.06		
	Iron** (ppm)		98	192		
	Manganese** (ppm)		55	22		
	Copper** (ppm)		3.00	3.10		
	Zinc** (ppm)		11.02	14.16		
	Aluminum** (ppm)		81	130		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		21.7	11.8		
	NH ₄ -N (ppm)		1.1	4.3		

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Sample Location	GREEN	6	15			
Sample Identification						
Lab Number		0900-1	0901-1			
Total Exchange Capacity (ME/100 g)		4.32	6.49			
pH (H ₂ O 1:1)		a 8.6	a 8.5			
Organic Matter (360°C LOI) %		0.69	0.82			
Estimated Nitrogen Release lb/A		28	33			
ANIONS	SOLUBLE SULFUR*	ppm	16	38		
	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	14	< 9			
		3	< 2			
	CALCIUM*	lb/A	1106	1860		
		ppm	553	930		
	MAGNESIUM*	lb/A	136	180		
		ppm	68	90		
	POTASSIUM*	lb/A	222	258		
		ppm	111	129		
	SODIUM*	lb/A	270	262		
		ppm	135	131		
BASE SATURATION PERCENT						
	Calcium %	64.00	71.65			
	Magnesium %	13.12	11.56			
	Potassium %	6.59	5.10			
	Sodium %	13.59	8.78			
	Other Bases %	2.80	2.90			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)	0.27	0.30			
	Iron** (ppm)	34	42			
	Manganese** (ppm)	11	8			
	Copper** (ppm)	< 0.2	< 0.2			
	Zinc** (ppm)	0.66	0.86			
	Aluminum** (ppm)	54	54			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO3-N (ppm)	0.9	1.2			
	NH4-N (ppm)	< 0.5	0.6			

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