

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-39

 Name Tucson Country Club City Tucson State AZ

 Independent Consultant Soil and Water Consulting Date 9/14/2022

Sample Location	TEE	7	16			
Sample Identification						
Lab Number		0486-1	0487-1			
Total Exchange Capacity (ME/100 g)		13.07	8.36			
pH (H ₂ O 1:1)		a 7.6	a 8.2			
Organic Matter (360°C LOI) %		3.50	2.15			
Estimated Nitrogen Release lb/A		85	63			
ANIONS	SOLUBLE SULFUR*	ppm	66	27		
	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	23 5		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4194 2097	2642 1321		
	MAGNESIUM*	lb/A ppm	234 117	154 77		
	POTASSIUM*	lb/A ppm	292 146	198 99		
	SODIUM*	lb/A ppm	340 170	272 136		
BASE SATURATION PERCENT						
	Calcium	%	80.22	79.01		
	Magnesium	%	7.46	7.68		
	Potassium	%	2.86	3.04		
	Sodium	%	5.66	7.07		
	Other Bases	%	3.80	3.20		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.22	0.91		
	Iron** (ppm)		101	236		
	Manganese** (ppm)		47	23		
	Copper** (ppm)		3.06	3.34		
	Zinc** (ppm)		14.40	10.00		
	Aluminum** (ppm)		73	118		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		17.0	9.9		
	NH ₄ -N (ppm)		2.1	65.7		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	7	16			
Sample Identification						
Lab Number		0488-1	0489-1			
Total Exchange Capacity (ME/100 g)		10.94	10.29			
pH (H ₂ O 1:1)	a	7.8	6.9			
Organic Matter (360°C LOI) %		2.75	3.31			
Estimated Nitrogen Release lb/A		75	83			
ANIONS	SOLUBLE SULFUR*	ppm	67	55		
	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	69 15	115 25		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3296 1648	2898 1449		
	MAGNESIUM*	lb/A ppm	210 105	234 117		
	POTASSIUM*	lb/A ppm	546 273	462 231		
	SODIUM*	lb/A ppm	338 169	396 198		
BASE SATURATION PERCENT						
	Calcium	%	75.32	70.41		
	Magnesium	%	8.00	9.48		
	Potassium	%	6.40	5.76		
	Sodium	%	6.72	8.37		
	Other Bases	%	3.60	4.50		
	Hydrogen	%	0.00	1.50		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.01	0.78		
	Iron** (ppm)		102	286		
	Manganese** (ppm)		58	25		
	Copper** (ppm)		3.06	2.78		
	Zinc** (ppm)		11.82	13.28		
	Aluminum** (ppm)		83	119		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		35.3	24.6		
	NH ₄ -N (ppm)		202.5	10.3		

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Sample Location	GREEN	7	16			
Sample Identification						
Lab Number		0490-1	0491-1			
Total Exchange Capacity (ME/100 g)		6.93	6.53			
pH (H ₂ O 1:1)		a 8.2	a 8.5			
Organic Matter (360°C LOI) %		0.43	0.59			
Estimated Nitrogen Release lb/A		17	24			
ANIONS	SOLUBLE SULFUR*	ppm	15	29		
	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	32	41			
		7	9			
	CALCIUM*	lb/A	1928	1792		
		ppm	964	896		
	MAGNESIUM*	lb/A	178	176		
		ppm	89	88		
	POTASSIUM*	lb/A	562	518		
		ppm	281	259		
	SODIUM*	lb/A	194	214		
		ppm	97	107		
BASE SATURATION PERCENT						
	Calcium %	69.55	68.61			
	Magnesium %	10.70	11.23			
	Potassium %	10.40	10.17			
	Sodium %	6.09	7.12			
	Other Bases %	3.20	2.90			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)	0.53	0.74			
	Iron** (ppm)	92	102			
	Manganese** (ppm)	66	78			
	Copper** (ppm)	3.04	3.34			
	Zinc** (ppm)	12.70	15.15			
	Aluminum** (ppm)	365	294			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.1	3.1			
	NH ₄ -N (ppm)	46.2	103.5			

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