

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-52

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 10/24/2024

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		1152-1	1153-1			
Total Exchange Capacity (ME/100 g)		16.04	10.19			
pH (H ₂ O 1:1)		a 8.2	a 8.4			
Organic Matter (360°C LOI) %		3.48	0.77			
Estimated Nitrogen Release	lb/A	85	31			
ANIONS	SOLUBLE SULFUR*	ppm	19	12		
	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	50 11	18 4		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	5214	3326		
		ppm	2607	1663		
	MAGNESIUM*	lb/A	278	224		
		ppm	139	112		
	POTASSIUM*	lb/A	496	268		
		ppm	248	134		
	SODIUM*	lb/A	320	134		
		ppm	160	67		
BASE SATURATION PERCENT						
	Calcium	%	81.27	81.60		
	Magnesium	%	7.22	9.16		
	Potassium	%	3.96	3.37		
	Sodium	%	4.34	2.86		
	Other Bases	%	3.20	3.00		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.42	0.59		
	Iron** (ppm)		99	49		
	Manganese** (ppm)		53	22		
	Copper** (ppm)		4.57	0.77		
	Zinc** (ppm)		8.83	2.66		
	Aluminum** (ppm)		31	8		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		13.2	4.2		
	NH ₄ -N (ppm)		3.1	4.1		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	2	11			
Sample Identification						
Lab Number		1154-1	1155-1			
Total Exchange Capacity (ME/100 g)		12.66	13.73			
pH (H ₂ O 1:1)		a 7.6	a 8.0			
Organic Matter (360°C LOI) %		2.77	4.22			
Estimated Nitrogen Release lb/A		75	92			
ANIONS	SOLUBLE SULFUR*	ppm	37	25		
	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	101 22	69 15		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3624 1812	4080 2040		
	MAGNESIUM*	lb/A ppm	276 138	296 148		
	POTASSIUM*	lb/A ppm	748 374	746 373		
	SODIUM*	lb/A ppm	464 232	402 201		
BASE SATURATION PERCENT						
	Calcium	%	71.56	74.29		
	Magnesium	%	9.08	8.98		
	Potassium	%	7.57	6.97		
	Sodium	%	7.97	6.36		
	Other Bases	%	3.80	3.40		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.25	1.44		
	Iron** (ppm)		130	94		
	Manganese** (ppm)		50	57		
	Copper** (ppm)		3.09	3.26		
	Zinc** (ppm)		11.31	11.98		
	Aluminum** (ppm)		109	72		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		41.7	15.2		
	NH ₄ -N (ppm)		6.0	2.7		

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Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		1156-1	1157-1			
Total Exchange Capacity (ME/100 g)		4.81	4.77			
pH (H ₂ O 1:1)		a 8.3	a 8.1			
Organic Matter (360°C LOI) %		0.64	0.59			
Estimated Nitrogen Release lb/A		26	24			
ANIONS	SOLUBLE SULFUR*	ppm	3	4		
	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	14			
		3	3			
	CALCIUM*	lb/A	1436	1346		
		ppm	718	673		
	MAGNESIUM*	lb/A	150	166		
		ppm	75	83		
	POTASSIUM*	lb/A	180	224		
		ppm	90	112		
	SODIUM*	lb/A	98	122		
		ppm	49	61		
BASE SATURATION PERCENT						
	Calcium %		74.64	70.55		
	Magnesium %		12.99	14.50		
	Potassium %		4.80	6.02		
	Sodium %		4.43	5.56		
	Other Bases %		3.10	3.30		
	Hydrogen %		0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.40	0.39		
	Iron** (ppm)		58	56		
	Manganese** (ppm)		15	15		
	Copper** (ppm)		0.38	0.34		
	Zinc** (ppm)		1.03	0.80		
	Aluminum** (ppm)		70	80		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	0.5		
	NH ₄ -N (ppm)		1.1	< 0.5		

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