

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 10/3/2023

Sample Location			FAIRWAY	2	5	7	8	9
Sample Identification								
Lab Number				1148-1	1149-1	1150-1	1151-1	1152-1
Total Exchange Capacity (ME/100 g)				12.39	12.30	11.43	13.80	11.45
pH (H ₂ O 1:1)				a 7.9	a 7.6	a 7.8	a 8.1	a 7.6
Organic Matter (360°C LOI) %				2.85	3.54	3.37	2.10	3.27
Estimated Nitrogen Release lb/A				77	85	84	62	83
ANIONS	SOLUBLE SULFUR* ppm			50	50	44	103	39
	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	64 14	32 7	14 3	78 17	64 14	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	3370	3362	3242	4112	3306
			ppm	1685	1681	1621	2056	1653
	MAGNESIUM*		lb/A	300	304	276	294	274
			ppm	150	152	138	147	137
	POTASSIUM*		lb/A	774	656	522	552	524
			ppm	387	328	261	276	262
	SODIUM*		lb/A	594	606	502	522	432
			ppm	297	303	251	261	216
BASE SATURATION PERCENT								
Calcium %				68.00	68.33	70.91	74.49	72.18
Magnesium %				10.09	10.30	10.06	8.88	9.97
Potassium %				8.01	6.84	5.86	5.13	5.87
Sodium %				10.42	10.71	9.55	8.22	8.20
Other Bases %				3.50	3.80	3.60	3.30	3.80
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				1.57	1.36	1.63	0.87	1.02
Iron** (ppm)				126	205	113	131	222
Manganese** (ppm)				69	51	61	81	44
Copper** (ppm)				4.15	3.94	3.89	2.85	3.62
Zinc** (ppm)				14.83	15.91	14.69	8.93	12.48
Aluminum** (ppm)				91	129	116	57	91
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			10.0	16.9	11.9	13.9	14.6
	NH4-N (ppm)			5.3	5.9	2.2	21.2	3.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-49

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 10/3/2023

Sample Location	FAIRWAY	17				
Sample Identification						
Lab Number		1153-1				
Total Exchange Capacity (ME/100 g)		15.08				
pH (H ₂ O 1:1)		a 7.9				
Organic Matter (360°C LOI) %		3.28				
Estimated Nitrogen Release lb/A		83				
ANIONS	SOLUBLE SULFUR*	ppm	69			
	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	9 2			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4192 2096			
	MAGNESIUM*	lb/A ppm	382 191			
	POTASSIUM*	lb/A ppm	828 414			
	SODIUM*	lb/A ppm	652 326			
BASE SATURATION PERCENT						
	Calcium	%	69.50			
	Magnesium	%	10.55			
	Potassium	%	7.04			
	Sodium	%	9.40			
	Other Bases	%	3.50			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		1.70			
	Iron** (ppm)		90			
	Manganese** (ppm)		83			
	Copper** (ppm)		3.28			
	Zinc** (ppm)		12.69			
	Aluminum** (ppm)		45			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		20.5			
	NH ₄ -N (ppm)		8.4			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable