

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 6/29/2023

Sample Location FAIRWAY			3	4	6	11	13
Sample Identification							
Lab Number			0480-1	0481-1	0482-1	0483-1	0484-1
Total Exchange Capacity (ME/100 g)			12.84	8.73	13.20	13.29	9.53
pH (H ₂ O 1:1)			a 7.4	a 7.4	a 7.6	a 7.5	a 7.5
Organic Matter (360°C LOI) %			4.18	2.88	4.05	2.96	3.39
Estimated Nitrogen Release lb/A			92	78	90	79	84
ANIONS	SOLUBLE SULFUR* ppm		36	23	27	42	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		110 24	50 11	18 4	69 15	105 23
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3722 1861	2548 1274	3964 1982	3916 1958	2774 1387
	MAGNESIUM* lb/A ppm		308 154	194 97	282 141	262 131	218 109
	POTASSIUM* lb/A ppm		540 270	332 166	624 312	710 355	404 202
	SODIUM* lb/A ppm		482 241	356 178	376 188	452 226	368 184
	BASE SATURATION PERCENT						
	Calcium %		72.47	72.97	75.08	73.66	72.77
	Magnesium %		9.99	9.26	8.90	8.21	9.53
	Potassium %		5.39	4.88	6.06	6.85	5.43
	Sodium %		8.16	8.86	6.19	7.39	8.39
	Other Bases %		4.00	4.00	3.80	3.90	3.90
	Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			1.16	1.03	1.40	1.15	0.84
Iron** (ppm)			233	218	110	122	204
Manganese** (ppm)			31	22	47	51	29
Copper** (ppm)			4.02	3.32	3.75	3.15	3.31
Zinc** (ppm)			22.81	14.35	12.08	10.21	15.23
Aluminum** (ppm)			155	103	101	48	125
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		5.0	4.0	10.0	14.4	6.4
	NH ₄ -N (ppm)		4.1	1.7	4.0	10.4	33.0

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-44

 Name Tucson Country Club City Tucson State AZ

 Independent Consultant Soil and Water Consulting Date 6/29/2023

Sample Location			FAIRWAY	15				
Sample Identification								
Lab Number				0485-1				
Total Exchange Capacity (ME/100 g)				11.13				
pH (H ₂ O 1:1)				7.2				
Organic Matter (360°C LOI) %				3.14				
Estimated Nitrogen Release lb/A				81				
ANIONS	SOLUBLE SULFUR* ppm			34				
	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	101 22					
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	3144				
			ppm	1572				
	MAGNESIUM*		lb/A	256				
			ppm	128				
	POTASSIUM*		lb/A	478				
			ppm	239				
	SODIUM*		lb/A	516				
			ppm	258				
BASE SATURATION PERCENT								
Calcium %				70.62				
Magnesium %				9.58				
Potassium %				5.51				
Sodium %				10.08				
Other Bases %				4.20				
Hydrogen %				0.00				
EXTRACTABLE MINORS								
Boron** (ppm)				0.69				
Iron** (ppm)				209				
Manganese** (ppm)				16				
Copper** (ppm)				2.60				
Zinc** (ppm)				13.10				
Aluminum** (ppm)				112				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			2.6				
	NH4-N (ppm)			3.1				

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable