

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

34998-53

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 3/20/2025

Sample Location	TEE	5	14	15		
Sample Identification						
Lab Number		0214-1	0215-1	1782-1		
Total Exchange Capacity (ME/100 g)		14.87	10.29	8.64		
pH (H ₂ O 1:1)		a 7.9	a 8.5	a 8.8		
Organic Matter (360°C LOI) %		4.10	2.52	0.53		
Estimated Nitrogen Release	lb/A	91	70	21		
ANIONS	SOLUBLE SULFUR*	ppm	18	19	10	
	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	82 18	27 6	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4760	3124	2902	
		ppm	2380	1562	1451	
	MAGNESIUM*	lb/A	302	236	124	
		ppm	151	118	62	
	POTASSIUM*	lb/A	438	294	230	
		ppm	219	147	115	
	SODIUM*	lb/A	290	376	162	
		ppm	145	188	81	
BASE SATURATION PERCENT						
	Calcium	%	80.03	75.90	83.97	
	Magnesium	%	8.46	9.56	5.98	
	Potassium	%	3.78	3.66	3.41	
	Sodium	%	4.24	7.94	4.08	
	Other Bases	%	3.50	2.90	2.60	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		1.12	1.18	0.42	
	Iron** (ppm)		123	90	44	
	Manganese** (ppm)		78	48	20	
	Copper** (ppm)		4.07	2.21	0.40	
	Zinc** (ppm)		11.89	12.56	1.29	
	Aluminum** (ppm)		99	84	4	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		10.7	5.2		
	NH ₄ -N (ppm)		2.1	1.7		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		FAIRWAY	5	14	15		
Sample Identification							
Lab Number			0216-1	0217-1	1783-1		
Total Exchange Capacity (ME/100 g)			13.14	13.04	10.27		
pH (H ₂ O 1:1)			a 8.0	a 7.9	a 7.9		
Organic Matter (360°C LOI) %			4.55	4.28	3.90		
Estimated Nitrogen Release		lb/A	96	93	89		
ANIONS	SOLUBLE SULFUR*	ppm	23	28	16		
	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	92 20	92 20	96 21		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3894 1947	3576 1788	2848 1424		
	MAGNESIUM*	lb/A ppm	276 138	308 154	260 130		
	POTASSIUM*	lb/A ppm	634 317	744 372	554 277		
	SODIUM*	lb/A ppm	458 229	646 323	460 230		
BASE SATURATION PERCENT							
	Calcium	%	74.09	68.56	69.33		
	Magnesium	%	8.75	9.84	10.55		
	Potassium	%	6.19	7.31	6.92		
	Sodium	%	7.58	10.77	9.74		
	Other Bases	%	3.40	3.50	3.50		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		1.23	1.08	0.99		
	Iron** (ppm)		137	214	254		
	Manganese** (ppm)		53	28	21		
	Copper** (ppm)		3.27	3.94	3.52		
	Zinc** (ppm)		11.99	18.98	13.93		
	Aluminum** (ppm)		68	125	137		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		14.0	13.0			
	NH ₄ -N (ppm)		2.1	2.7			

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Sample Location	GREEN	5	6	14	15	
Sample Identification						
Lab Number		0218-1	1786-1	0219-1	1784-1	
Total Exchange Capacity (ME/100 g)		5.03	4.88	7.79	5.61	
pH (H ₂ O 1:1)		a 8.4	a 8.5	a 8.6	a 8.8	
Organic Matter (360°C LOI) %		0.82	0.76	0.75	0.49	
Estimated Nitrogen Release lb/A		33	30	30	20	
ANIONS	SOLUBLE SULFUR*	ppm	6	7	8	8
	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	18 4	9 2	50 11	101 22
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1436	1350	2510	1596
		ppm	718	675	1255	798
	MAGNESIUM*	lb/A	136	152	132	148
		ppm	68	76	66	74
	POTASSIUM*	lb/A	234	240	240	274
		ppm	117	120	120	137
	SODIUM*	lb/A	194	196	204	232
		ppm	97	98	102	116
BASE SATURATION PERCENT						
	Calcium	%	71.37	69.16	80.55	71.12
	Magnesium	%	11.27	12.98	7.06	10.99
	Potassium	%	5.96	6.31	3.95	6.26
	Sodium	%	8.38	8.73	5.69	8.99
	Other Bases	%	3.00	2.90	2.80	2.60
	Hydrogen	%	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)		0.35	0.41	0.34	0.50
	Iron** (ppm)		45	59	41	58
	Manganese** (ppm)		13	16	10	12
	Copper** (ppm)		0.66	0.37	0.20	0.36
	Zinc** (ppm)		1.03	0.86	0.75	0.95
	Aluminum** (ppm)		59	78	34	64
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5		< 0.5	
	NH ₄ -N (ppm)		< 0.5		< 0.5	

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