

lb/A

BROOKSIDE LABORATORIES, INC.

80046-40

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 9/19/2024

Sample Location				TRI-PALM	CC	TEE	TEE	TEE	FAIRWAY	FAIRWAY	
Sample Identification						2	7	10	2	7	
Lab Number						0033-1	0034-1	0035-1	0036-1	0037-1	
Total Exchange Capacity (ME/100 g)						8.64	12.43	13.25	18.08	11.30	
pH (H ₂ O 1:1)						a 7.9	a 7.7	a 8.5	a 8.2	a 8.1	
Organic Matter (360°C LOI) %						2.56	3.16	2.51	3.77	2.58	
Estimated Nitrogen Release						lb/A	71	82	70	88	72
ANIONS	SOLUBLE SULFUR*					ppm	15	26	72	47	40
	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	82 18	105 23	9 2	87 19	27 6
EXCHANGEABLE CATIONS	CALCIUM*					lb/A	2742	3710	4040	5516	3490
						ppm	1371	1855	2020	2758	1745
	MAGNESIUM*					lb/A	260	414	382	554	350
						ppm	130	207	191	277	175
	POTASSIUM*					lb/A	176	540	550	674	336
						ppm	88	270	275	337	168
	SODIUM*					lb/A	80	128	216	246	142
						ppm	40	64	108	123	71
BASE SATURATION PERCENT											
Calcium						%	79.34	74.62	76.23	76.27	77.21
Magnesium						%	12.54	13.88	12.01	12.77	12.91
Potassium						%	2.61	5.57	5.32	4.78	3.81
Sodium						%	2.01	2.24	3.54	2.96	2.73
Other Bases						%	3.50	3.70	2.90	3.20	3.30
Hydrogen						%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS											
Boron** (ppm)							0.76	0.87	0.98	1.04	0.78
Iron** (ppm)							170	161	86	114	120
Manganese** (ppm)							22	33	44	48	42
Copper** (ppm)							1.19	1.86	1.52	2.08	1.52
Zinc** (ppm)							5.48	6.23	6.33	8.74	6.05
Aluminum** (ppm)							172	131	88	95	142
OTHER TESTS	Soluble Salts (mmhos/cm)										
	Chlorides (ppm)										
	NO3-N (ppm)						6.8	18.9	18.8	7.0	8.6
	NH4-N (ppm)						1.2	1.8	1.9	1.7	0.8

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location TRI-PALM CC			FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			10	2	7	10	17
Lab Number			0038-1	0039-1	0040-1	0041-1	0042-1
Total Exchange Capacity (ME/100 g)			12.62	5.91	6.50	6.68	6.38
pH (H ₂ O 1:1)			a 8.3	a 8.0	a 7.7	a 7.8	a 7.8
Organic Matter (360°C LOI) %			2.75	1.70	2.08	1.62	1.81
Estimated Nitrogen Release lb/A			75	54	62	52	56
ANIONS	SOLUBLE SULFUR* ppm		39	7	8	8	8
	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	137 30	41 9	156 34	69 15	169 37
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3798 1899	1822 911	2034 1017	2052 1026	1974 987
	MAGNESIUM* lb/A ppm		402 201	214 107	214 107	234 117	218 109
	POTASSIUM* lb/A ppm		524 262	112 56	120 60	158 79	138 69
	SODIUM* lb/A ppm		178 89	56 28	60 30	62 31	58 29
	BASE SATURATION PERCENT						
	Calcium	%	75.24	77.07	78.23	76.80	77.35
	Magnesium	%	13.27	15.09	13.72	14.60	14.24
	Potassium	%	5.32	2.43	2.37	3.03	2.77
	Sodium	%	3.07	2.06	2.01	2.02	1.98
	Other Bases	%	3.10	3.40	3.70	3.60	3.60
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			0.83	0.83	0.68	0.66	0.81
Iron** (ppm)			99	206	344	206	307
Manganese** (ppm)			35	53	48	56	54
Copper** (ppm)			1.92	1.31	2.22	2.12	2.13
Zinc** (ppm)			5.02	14.74	16.12	14.24	18.69
Aluminum** (ppm)			119	137	166	148	174
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO3-N (ppm)		10.5	4.4	5.8	5.0	4.3
	NH4-N (ppm)		1.1	0.8	2.3	1.0	1.4

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable