

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-41

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 10/30/2024

Sample Location <u>SAN RAMON GC</u>			TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification			10	13	16	10	13
Lab Number			1025-1	1026-1	1027-1	1028-1	1029-1
Total Exchange Capacity (ME/100 g)			15.43	18.93	20.24	27.46	34.05
pH (H ₂ O 1:1)			a 8.2	a 8.2	a 8.0	a 8.2	a 8.1
Organic Matter (360°C LOI) %			3.92	4.81	4.27	7.66	8.55
Estimated Nitrogen Release lb/A			89	98	93	113	118
ANIONS	SOLUBLE SULFUR* ppm		41	54	31	59	70
	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	147 32	73 16	55 12	92 20	27 6
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3660 1830	4252 2126	4622 2311	5878 2939	6636 3318
	MAGNESIUM* lb/A ppm		1058 529	1406 703	1544 772	2216 1108	2968 1484
	POTASSIUM* lb/A ppm		186 93	154 77	228 114	316 158	490 245
	SODIUM* lb/A ppm		524 262	754 377	584 292	1034 517	1536 768
	BASE SATURATION PERCENT						
	Calcium	%	59.30	56.15	57.09	53.51	48.72
	Magnesium	%	28.57	30.95	31.79	33.62	36.32
	Potassium	%	1.55	1.04	1.44	1.48	1.84
	Sodium	%	7.38	8.66	6.27	8.19	9.81
	Other Bases	%	3.20	3.20	3.40	3.20	3.30
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			3.23	2.46	2.94	5.37	6.66
Iron** (ppm)			133	190	84	63	51
Manganese** (ppm)			43	61	39	39	53
Copper** (ppm)			5.24	1.68	5.08	3.05	3.14
Zinc** (ppm)			11.88	4.71	12.38	5.99	5.25
Aluminum** (ppm)			140	269	183	187	227
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO3-N (ppm)		6.7	3.7	14.6	9.5	14.0
	NH4-N (ppm)		0.9	0.7	5.1	2.5	13.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location				SAN	RAMON	GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN	
Sample Identification							16	10	13	14	16	
Lab Number							1030-1	1031-1	1032-1	1033-1	1034-1	
Total Exchange Capacity (ME/100 g)							24.84	10.90	10.62	6.73	9.02	
pH (H ₂ O 1:1)							a 8.4	a 8.0	a 8.1	a 8.0	a 8.2	
Organic Matter (360°C LOI) %							10.02	2.42	2.76	1.88	2.79	
Estimated Nitrogen Release							lb/A	125	68	75	58	76
ANIONS	SOLUBLE SULFUR*						ppm	35	73	119	56	80
	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		46	197	142	60	169	
					ppm of P		10	43	31	13	37	
EXCHANGEABLE CATIONS	CALCIUM*						lb/A	4992	3070	2828	1920	2550
							ppm	2496	1535	1414	960	1275
	MAGNESIUM*						lb/A	2118	416	424	258	336
							ppm	1059	208	212	129	168
	POTASSIUM*						lb/A	368	356	476	200	316
							ppm	184	178	238	100	158
	SODIUM*						lb/A	1068	306	378	172	252
							ppm	534	153	189	86	126
BASE SATURATION PERCENT												
Calcium							%	50.24	70.41	66.57	71.32	70.68
Magnesium							%	35.53	15.90	16.64	15.97	15.52
Potassium							%	1.90	4.19	5.75	3.81	4.49
Sodium							%	9.35	6.10	7.74	5.56	6.07
Other Bases							%	3.00	3.40	3.30	3.40	3.20
Hydrogen							%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS												
Boron** (ppm)							4.85	1.46	1.57	0.99	1.21	
Iron** (ppm)							25	197	109	149	110	
Manganese** (ppm)							31	42	31	30	31	
Copper** (ppm)							1.89	2.09	1.90	0.66	1.25	
Zinc** (ppm)							3.92	8.01	7.00	4.31	4.79	
Aluminum** (ppm)							144	84	42	59	24	
OTHER TESTS	Soluble Salts (mmhos/cm)											
	Chlorides (ppm)											
	NO3-N (ppm)						14.4	1.9	2.4	2.9	2.0	
	NH4-N (ppm)						17.4	< 0.5	4.1	3.6	2.3	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable