

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-42

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 11/5/2024

Sample Location			ASHWOOD	GC	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification					B4	M4	S4	B4	M4
Lab Number					0452-1	0453-1	0454-1	0455-1	0456-1
Total Exchange Capacity (ME/100 g)					6.96	8.98	11.10	5.85	9.50
pH (H ₂ O 1:1)					7.3	^a 7.5	7.0	7.0	^a 7.4
Organic Matter (360°C LOI) %					3.42	2.83	5.43	2.32	2.46
Estimated Nitrogen Release lb/A					84	77	102	66	69
ANIONS	SOLUBLE SULFUR* ppm				19	16	22	34	30
	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	50 11	27 6	82 18	96 21	50 11
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		2102	2846	3440	1736	2920
			ppm		1051	1423	1720	868	1460
	MAGNESIUM*		lb/A		264	290	382	210	318
			ppm		132	145	191	105	159
	POTASSIUM*		lb/A		124	118	174	134	194
			ppm		62	59	87	67	97
	SODIUM*		lb/A		76	70	92	96	112
			ppm		38	35	46	48	56
BASE SATURATION PERCENT									
Calcium %					75.50	79.23	77.48	74.19	76.84
Magnesium %					15.80	13.46	14.34	14.96	13.95
Potassium %					2.28	1.68	2.01	2.94	2.62
Sodium %					2.37	1.69	1.80	3.57	2.56
Other Bases %					4.10	3.90	4.40	4.40	4.00
Hydrogen %					0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS									
Boron** (ppm)					0.72	0.87	0.96	0.77	0.86
Iron** (ppm)					101	128	348	287	188
Manganese** (ppm)					14	27	15	23	30
Copper** (ppm)					1.31	0.85	1.14	0.68	0.50
Zinc** (ppm)					3.95	6.44	8.64	2.86	2.98
Aluminum** (ppm)					111	157	156	101	167
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO3-N (ppm)				< 0.5	4.2	0.9	0.8	5.8
	NH4-N (ppm)				0.8	< 0.5	< 0.5	2.4	< 0.5

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location		ASHWOOD GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			S4	B4	M4	S4	PG
Lab Number			0457-1	0458-1	0460-1	0461-1	0462-1
Total Exchange Capacity (ME/100 g)			9.30	5.45	4.91	4.74	4.39
pH (H ₂ O 1:1)			a 7.5	a 7.7	7.3	6.8	7.3
Organic Matter (360°C LOI) %			2.44	1.07	1.43	1.49	1.30
Estimated Nitrogen Release lb/A			69	41	49	50	46
ANIONS	SOLUBLE SULFUR*	ppm	20	38	17	22	29
	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	27 6	< 9 < 2	27 6	37 8	32 7
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2974	1710	1568	1462	1368
		ppm	1487	855	784	731	684
	MAGNESIUM*	lb/A	272	136	124	114	116
		ppm	136	68	62	57	58
	POTASSIUM*	lb/A	148	202	118	100	132
		ppm	74	101	59	50	66
	SODIUM*	lb/A	82	68	56	56	64
		ppm	41	34	28	28	32
BASE SATURATION PERCENT							
Calcium		%	79.95	78.44	79.84	77.11	77.90
Magnesium		%	12.19	10.40	10.52	10.02	11.01
Potassium		%	2.04	4.75	3.08	2.70	3.85
Sodium		%	1.92	2.71	2.48	2.57	3.17
Other Bases		%	3.90	3.70	4.10	4.60	4.10
Hydrogen		%	0.00	0.00	0.00	3.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			0.87	0.90	0.82	0.75	0.77
Iron** (ppm)			271	112	97	180	90
Manganese** (ppm)			17	26	33	31	25
Copper** (ppm)			0.84	1.07	1.09	1.09	1.10
Zinc** (ppm)			7.26	3.29	4.89	5.02	3.62
Aluminum** (ppm)			187	52	69	71	60
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO3-N (ppm)		1.3	1.4	2.8	2.7	1.4
	NH4-N (ppm)		< 0.5	< 0.5	1.9	< 0.5	0.8

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable