

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 7/27/2020

Sample Location	CAMARILLO	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification		5	13	15	5	13
Lab Number		0145-1	0146-1	0147-1	0148-1	0149-1
Total Exchange Capacity (ME/100 g)		19.70	17.48	19.98	27.62	35.92
pH (H ₂ O 1:1)		a 7.9	a 7.8	a 8.0	a 8.0	a 8.2
Organic Matter (360°C LOI) %		6.57	6.70	5.25	5.44	8.66
Estimated Nitrogen Release lb/A		108	108	101	102	118
ANIONS	SOLUBLE SULFUR* ppm	178	42	78	56	498
	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	563 123	536 117	499 109	380 83	609 133
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3910	3374	3760	5148	6948
	ppm	1955	1687	1880	2574	3474
	MAGNESIUM* lb/A	1806	1706	1978	2758	3238
	ppm	903	853	989	1379	1619
	POTASSIUM* lb/A	542	498	562	998	1282
	ppm	271	249	281	499	641
	SODIUM* lb/A	468	306	430	480	1042
	ppm	234	153	215	240	521
BASE SATURATION PERCENT						
	Calcium %	49.62	48.26	47.05	46.60	48.36
	Magnesium %	38.20	40.67	41.25	41.61	37.56
	Potassium %	3.53	3.65	3.61	4.63	4.58
	Sodium %	5.16	3.81	4.68	3.78	6.31
	Other Bases %	3.50	3.60	3.40	3.40	3.20
	Hydrogen %	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)	3.34	2.51	1.92	3.06	5.45
	Iron** (ppm)	305	425	422	121	108
	Manganese** (ppm)	28	21	28	52	67
	Copper** (ppm)	4.16	4.60	4.20	2.49	3.88
	Zinc** (ppm)	55.25	36.39	17.42	8.36	9.55
	Aluminum** (ppm)	191	222	164	170	125
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	40.3	7.8	9.5	10.4	16.9
	NH ₄ -N (ppm)	2.5	1.7	2.2	2.2	2.8

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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SOIL AUDIT AND INVENTORY REPORT

80046-10

 Name Western Golf Properties City Lake Forest State CA

 Independent Consultant Soil and Water Consulting Date 7/27/2020

Sample Location CAMARILLO			FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			15	5	9	13	15
Lab Number			0150-1	0151-1	0152-1	0153-1	0154-1
Total Exchange Capacity (ME/100 g)			37.04	11.43	7.80	11.01	11.46
pH (H ₂ O 1:1)			a 8.2	a 8.2	a 8.1	a 8.1	a 8.5
Organic Matter (360°C LOI) %			9.47	0.72	0.85	1.90	1.05
Estimated Nitrogen Release lb/A			122	29	34	58	41
ANIONS	SOLUBLE SULFUR* ppm		174	144	79	124	117
	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	412 90	179 39	96 21	206 45	202 44
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		6676 3338	3034 1517	2116 1058	3012 1506	3152 1576
	MAGNESIUM* lb/A ppm		3748 1874	680 340	452 226	632 316	632 316
	POTASSIUM* lb/A ppm		910 455	74 37	48 24	68 34	120 60
	SODIUM* lb/A ppm		1094 547	252 126	142 71	184 92	210 105
	BASE SATURATION PERCENT						
	Calcium	%	45.06	66.36	67.82	68.39	68.76
	Magnesium	%	42.16	24.79	24.15	23.92	22.98
	Potassium	%	3.15	0.83	0.79	0.79	1.34
	Sodium	%	6.42	4.79	3.96	3.63	3.98
	Other Bases	%	3.20	3.20	3.30	3.30	2.90
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			5.48	1.13	0.95	1.14	1.08
Iron** (ppm)			76	136	161	170	152
Manganese** (ppm)			39	120	136	142	128
Copper** (ppm)			4.28	1.00	1.22	0.91	0.95
Zinc** (ppm)			5.93	14.82	16.10	14.61	13.46
Aluminum** (ppm)			105	45	65	50	38
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		9.5	4.1	2.5	4.6	7.6
	NH ₄ -N (ppm)		2.1	0.8	0.9	2.2	7.0

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable