

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-27

Name Western Golf Properties City Lake Forest State CAIndependent Consultant Soil and Water Consulting Date 6/16/2023

Sample Location				YUCAIPA VALLEY GC	TEE	TEE	TEE	FAIRWAY	FAIRWAY
Sample Identification					3	8	13	3	8
Lab Number					0891-1	0892-1	0893-1	0894-1	0895-1
Total Exchange Capacity (ME/100 g)					9.11	8.39	9.24	12.32	13.02
pH (H ₂ O 1:1)					7.0	6.8	6.8	^a 7.6	^a 7.6
Organic Matter (360°C LOI) %					3.94	3.01	4.95	3.09	3.58
Estimated Nitrogen Release lb/A					89	80	100	81	86
ANIONS	SOLUBLE SULFUR* ppm				49	22	40	19	162
	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	215 47	211 46	82 18	32 7	64 14
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		2904	2450	2770	3624	3666
			ppm		1452	1225	1385	1812	1833
	MAGNESIUM*		lb/A		246	290	280	522	524
			ppm		123	145	140	261	262
	POTASSIUM*		lb/A		178	156	124	124	182
			ppm		89	78	62	62	91
	SODIUM*		lb/A		92	102	130	210	436
			ppm		46	51	65	105	218
BASE SATURATION PERCENT									
Calcium %					79.69	73.00	74.95	73.54	70.39
Magnesium %					11.25	14.40	12.63	17.65	16.77
Potassium %					2.50	2.38	1.72	1.29	1.79
Sodium %					2.20	2.64	3.06	3.71	7.28
Other Bases %					4.40	4.60	4.60	3.80	3.80
Hydrogen %					0.00	3.00	3.00	0.00	0.00
EXTRACTABLE MINORS									
Boron** (ppm)					0.71	0.76	0.68	0.82	1.30
Iron** (ppm)					488	608	506	290	450
Manganese** (ppm)					11	10	11	29	59
Copper** (ppm)					3.13	2.21	3.65	2.24	2.99
Zinc** (ppm)					15.20	11.31	7.13	3.02	3.19
Aluminum** (ppm)					268	283	173	164	288
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO3-N (ppm)				9.0	6.1	5.1	2.1	1.0
	NH4-N (ppm)				3.3	2.3	6.4	2.1	2.0

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 6/16/2023

Sample Location		YUCAIPA VALLEY GC	FAIRWAY	GREEN	GREEN	GREEN	GREEN
Sample Identification			13	3	8	13	18
Lab Number			0896-1	0897-1	0898-1	0899-1	0900-1
Total Exchange Capacity (ME/100 g)			12.38	5.76	5.56	5.59	5.52
pH (H ₂ O 1:1)			a 7.6	7.1	7.0	7.3	7.1
Organic Matter (360°C LOI) %			3.72	1.47	1.38	1.70	1.49
Estimated Nitrogen Release lb/A			87	49	48	54	50
ANIONS	SOLUBLE SULFUR*	ppm	23	38	49	26	37
	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	87 19	41 9	82 18	142 31	46 10
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3640 1820	1762 881	1700 850	1758 879	1688 844
	MAGNESIUM*	lb/A ppm	518 259	178 89	164 82	140 70	170 85
	POTASSIUM*	lb/A ppm	146 73	140 70	156 78	172 86	134 67
	SODIUM*	lb/A ppm	214 107	84 42	84 42	74 37	84 42
BASE SATURATION PERCENT							
	Calcium	%	73.51	76.48	76.44	78.62	76.45
	Magnesium	%	17.43	12.88	12.29	10.44	12.83
	Potassium	%	1.51	3.12	3.60	3.94	3.11
	Sodium	%	3.76	3.17	3.28	2.88	3.31
	Other Bases	%	3.80	4.30	4.40	4.10	4.30
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
	Boron** (ppm)		0.95	0.74	0.69	0.69	0.74
	Iron** (ppm)		290	263	270	269	301
	Manganese** (ppm)		49	38	46	41	40
	Copper** (ppm)		2.65	2.01	3.35	2.18	2.81
	Zinc** (ppm)		5.85	12.84	14.88	11.05	12.35
	Aluminum** (ppm)		261	77	77	47	76
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		0.6	2.8	3.2	4.2	3.3
	NH ₄ -N (ppm)		2.6	0.8	1.1	< 0.5	0.9

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable