

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Western Golf Properties City Lake Forest State CA

Independent Consultant Soil and Water Consulting Date 10/22/2020

Sample Location				REVERE	GC	CONCORD	LEXINGTO	LEXINGTO	CONCORD	LEXINGTO
Sample Identification						TEE 17	TEE 6	TEE 8	FAIRWAY	FAIRWAY
Lab Number						1516-1	1517-1	1518-1	1519-1	1520-1
Total Exchange Capacity (ME/100 g)						14.02	12.68	12.21	17.38	36.18
pH (H ₂ O 1:1)						a 8.2	a 7.7	a 7.9	a 8.0	a 7.7
Organic Matter (360°C LOI) %						1.87	2.57	2.80	4.25	4.21
Estimated Nitrogen Release lb/A						57	71	76	92	92
ANIONS	SOLUBLE SULFUR* ppm					40	67	55	434	3136
	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		< 5	64	105	92	96	
			ppm of P		< 1	14	23	20	21	
EXCHANGEABLE CATIONS	CALCIUM*					4154	3428	3294	5156	11034
			lb/A		ppm	2077	1714	1647	2578	5517
	MAGNESIUM*					440	402	372	432	636
			lb/A		ppm	220	201	186	216	318
	POTASSIUM*					532	728	716	762	1918
			lb/A		ppm	266	364	358	381	959
	SODIUM*					310	476	496	514	990
			lb/A		ppm	155	238	248	257	495
BASE SATURATION PERCENT										
Calcium %						74.07	67.59	67.44	74.17	76.24
Magnesium %						13.08	13.21	12.69	10.36	7.32
Potassium %						4.86	7.36	7.52	5.62	6.80
Sodium %						4.81	8.16	8.83	6.43	5.95
Other Bases %						3.20	3.70	3.50	3.40	3.70
Hydrogen %						0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS										
Boron** (ppm)						1.06	1.18	1.11	1.58	1.90
Iron** (ppm)						48	143	237	208	53
Manganese** (ppm)						24	21	19	18	20
Copper** (ppm)						1.77	2.49	3.89	3.00	1.50
Zinc** (ppm)						10.26	14.51	17.37	11.80	11.25
Aluminum** (ppm)						39	109	140	62	13
OTHER TESTS	Soluble Salts (mmhos/cm)									
	Chlorides (ppm)									
	NO3-N (ppm)					6.7	9.0	7.6	15.1	17.8
	NH4-N (ppm)					1.2	2.3	1.8	2.9	5.1

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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80046-11

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 Independent Consultant Soil and Water Consulting Date 10/22/2020

Sample Location REVERE GC			LEXINGTO	CONCORD	LEXINGTO	LEXINGTO	
Sample Identification			FAIRWAY	GREEN 17	GREEN 6	GREEN 8	
Lab Number			1521-1	1522-1	1523-1	1524-1	
Total Exchange Capacity (ME/100 g)			27.69	9.11	9.46	9.38	
pH (H ₂ O 1:1)			a 7.9	a 8.1	a 8.1	a 8.0	
Organic Matter (360°C LOI) %			5.32	1.35	1.82	1.89	
Estimated Nitrogen Release lb/A			102	47	56	58	
ANIONS	SOLUBLE SULFUR* ppm		1195	38	51	41	
	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	92 20	< 5 < 1	18 4	< 5 < 1	
EXCHANGEABLE CATIONS	CALCIUM*		7868 3934	2346 1173	2168 1084	2162 1081	
	MAGNESIUM*		714 357	250 125	202 101	190 95	
	POTASSIUM*		1286 643	938 469	1494 747	1504 752	
	SODIUM*		1116 558	320 160	448 224	432 216	
	BASE SATURATION PERCENT						
	Calcium	%	71.04	64.38	57.29	57.62	
	Magnesium	%	10.74	11.43	8.90	8.44	
	Potassium	%	5.95	13.20	20.25	20.56	
	Sodium	%	8.76	7.64	10.30	10.01	
	Other Bases	%	3.50	3.30	3.30	3.40	
	Hydrogen	%	0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS							
Boron** (ppm)			2.75	0.85	0.79	0.83	
Iron** (ppm)			30	68	100	91	
Manganese** (ppm)			13	40	44	40	
Copper** (ppm)			1.44	1.13	1.16	1.12	
Zinc** (ppm)			12.98	13.52	18.24	17.71	
Aluminum** (ppm)			10	47	53	33	
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		11.3	< 0.5	0.8	1.3	
	NH ₄ -N (ppm)		2.9	2.3	1.5	2.2	

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** Mehlich III Extractable