

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80046-44

 Name Western Golf Properties City Lake Forest State CA

 Independent Consultant Soil and Water Consulting Date 6/18/2025

Sample Location		THE LECAGY CG	TEE	TEE	TEE		
Sample Identification			4	7	16		
Lab Number			1117-1	1118-1	1119-1		
Total Exchange Capacity (ME/100 g)			15.33	13.96	11.35		
pH (H ₂ O 1:1)			a 8.0	a 8.0	a 8.1		
Organic Matter (360°C LOI) %			3.55	4.27	4.19		
Estimated Nitrogen Release lb/A			86	93	92		
ANIONS	SOLUBLE SULFUR*	ppm	192	110	86		
	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	137 30	169 37	165 36		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3844 1922	3476 1738	2930 1465		
	MAGNESIUM*	lb/A ppm	584 292	552 276	412 206		
	POTASSIUM*	lb/A ppm	554 277	494 247	348 174		
	SODIUM*	lb/A ppm	946 473	856 428	686 343		
BASE SATURATION PERCENT							
	Calcium	%	62.69	62.25	64.54		
	Magnesium	%	15.87	16.48	15.12		
	Potassium	%	4.63	4.54	3.93		
	Sodium	%	13.42	13.33	13.14		
	Other Bases	%	3.40	3.40	3.30		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		2.87	2.47	1.55		
	Iron** (ppm)		113	144	137		
	Manganese** (ppm)		28	19	21		
	Copper** (ppm)		2.24	2.14	2.29		
	Zinc** (ppm)		39.40	38.33	24.66		
	Aluminum** (ppm)		54	37	34		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		23.4	27.6	41.7		
	NH ₄ -N (ppm)		14.6	5.3	96.5		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	THE LECAGY CG	FAIRWAY	FAIRWAY	FAIRWAY		
Sample Identification		4	7	16		
Lab Number		1120-1	1121-1	1123-1		
Total Exchange Capacity (ME/100 g)		18.86	17.78	18.68		
pH (H ₂ O 1:1)		a 8.2	a 8.0	a 8.0		
Organic Matter (360°C LOI) %		5.65	7.83	5.26		
Estimated Nitrogen Release lb/A		103	114	101		
ANIONS	SOLUBLE SULFUR* ppm	84	81	77		
	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	174 38	169 37	188 41		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3618	3654	4428		
	ppm	1809	1827	2214		
	MAGNESIUM* lb/A	534	510	700		
	ppm	267	255	350		
	POTASSIUM* lb/A	2122	1814	1162		
	ppm	1061	907	581		
	SODIUM* lb/A	1962	1650	1180		
	ppm	981	825	590		
BASE SATURATION PERCENT						
	Calcium %	47.96	51.38	59.26		
	Magnesium %	11.80	11.95	15.61		
	Potassium %	14.42	13.08	7.98		
	Sodium %	22.62	20.17	13.73		
	Other Bases %	3.20	3.40	3.40		
	Hydrogen %	0.00	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)	2.24	1.87	1.60		
	Iron** (ppm)	106	130	72		
	Manganese** (ppm)	34	36	32		
	Copper** (ppm)	1.08	1.79	0.80		
	Zinc** (ppm)	26.71	32.54	19.40		
	Aluminum** (ppm)	32	37	29		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	31.3	34.2	29.9		
	NH ₄ -N (ppm)	25.5	30.9	27.0		

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Sample Location THE LECAGY CG			GREEN	GREEN	GREEN	GREEN	
Sample Identification			4	6	7	16	
Lab Number			1124-1	1125-1	1126-1	1127-1	
Total Exchange Capacity (ME/100 g)			8.73	9.74	9.66	9.80	
pH (H ₂ O 1:1)			a 8.1	a 7.8	a 8.2	a 8.1	
Organic Matter (360°C LOI) %			1.90	2.26	1.97	1.74	
Estimated Nitrogen Release lb/A			58	65	59	55	
ANIONS	SOLUBLE SULFUR* ppm		52	69	85	61	
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		92	87	142	82	
			20	19	31	18	
	CALCIUM* lb/A		2314	2526	2460	2566	
	ppm		1157	1263	1230	1283	
	MAGNESIUM* lb/A		280	318	334	338	
	ppm		140	159	167	169	
	POTASSIUM* lb/A		372	406	440	418	
	ppm		186	203	220	209	
	SODIUM* lb/A		464	564	572	516	
	ppm		232	282	286	258	
BASE SATURATION PERCENT							
Calcium %			66.27	64.84	63.66	65.46	
Magnesium %			13.36	13.60	14.41	14.37	
Potassium %			5.46	5.34	5.84	5.47	
Sodium %			11.55	12.59	12.87	11.45	
Other Bases %			3.30	3.60	3.20	3.30	
Hydrogen %			0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS							
Boron** (ppm)			1.03	1.11	1.39	1.21	
Iron** (ppm)			103	125	127	129	
Manganese** (ppm)			50	53	74	62	
Copper** (ppm)			1.57	1.92	2.04	2.09	
Zinc** (ppm)			23.79	25.68	31.72	32.53	
Aluminum** (ppm)			26	43	32	82	
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		25.0	11.2	27.4	20.8	
	NH ₄ -N (ppm)		47.5	1.2	65.9	35.5	

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