

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

Name El Dorado Golf and Beach Club City BCS State MEX

Independent Consultant Soil and Water Consulting Date 10/3/2022

Sample Location	TEE	1	9	18			
Sample Identification							
Lab Number		0127-1	0128-1	0129-1			
Total Exchange Capacity (ME/100 g)		5.92	6.39	5.43			
pH (H <sub>2</sub> O 1:1)		a 7.6	a 7.8	a 7.9			
Organic Matter (360°C LOI) %		1.86	1.50	2.00			
Estimated Nitrogen Release	lb/A	57	50	60			
<b>ANIONS</b>	SOLUBLE SULFUR*	ppm	13	12	9		
	<b>PHOSPHORUS</b>	MEHLICH III	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P				
		BRAY II	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P				
		OLSEN	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	82 18	128 28	82 18	
<b>EXCHANGEABLE CATIONS</b>	CALCIUM*	lb/A	1640	1660	1498		
		ppm	820	830	749		
	MAGNESIUM*	lb/A	214	288	198		
		ppm	107	144	99		
	POTASSIUM*	lb/A	190	288	212		
ppm		95	144	106			
SODIUM*	lb/A	212	204	182			
	ppm	106	102	91			
<b>BASE SATURATION PERCENT</b>							
	Calcium	%	69.26	64.95	68.97		
	Magnesium	%	15.06	18.78	15.19		
	Potassium	%	4.11	5.78	5.01		
	Sodium	%	7.78	6.94	7.29		
	Other Bases	%	3.80	3.60	3.50		
	Hydrogen	%	0.00	0.00	0.00		
<b>EXTRACTABLE MINORS</b>							
	Boron** (ppm)		0.67	0.67	0.85		
	Iron** (ppm)		299	314	291		
	Manganese** (ppm)		91	112	132		
	Copper** (ppm)		0.95	0.42	0.84		
	Zinc** (ppm)		4.35	4.30	7.98		
	Aluminum** (ppm)		95	68	97		
<b>OTHER TESTS</b>	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO <sub>3</sub> -N (ppm)		5.4	9.0	3.5		
	NH <sub>4</sub> -N (ppm)		3.0	1.9	2.8		

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

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Sample Location	FAIRWAY	1	9	18			
Sample Identification							
Lab Number		0130-1	0131-1	0132-1			
Total Exchange Capacity (ME/100 g)		11.82	11.18	8.20			
pH (H <sub>2</sub> O 1:1)		a 8.8	a 8.7	a 8.3			
Organic Matter (360°C LOI) %		2.30	2.02	2.63			
Estimated Nitrogen Release	lb/A	66	60	73			
<b>ANIONS</b>	SOLUBLE SULFUR*	ppm	78	83	24		
	<b>PHOSPHORUS</b>	MEHLICH III	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P				
		BRAY II	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P				
		OLSEN	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	385 84	353 77	211 46	
<b>EXCHANGEABLE CATIONS</b>	CALCIUM*	lb/A ppm	3186 1593	2844 1422	2298 1149		
	MAGNESIUM*	lb/A ppm	344 172	326 163	266 133		
	POTASSIUM*	lb/A ppm	374 187	438 219	258 129		
	SODIUM*	lb/A ppm	752 376	848 424	350 175		
	<b>BASE SATURATION PERCENT</b>						
	Calcium %	67.39	63.60	70.06			
	Magnesium %	12.13	12.15	13.52			
	Potassium %	4.06	5.02	4.03			
	Sodium %	13.83	16.49	9.28			
	Other Bases %	2.60	2.70	3.10			
	Hydrogen %	0.00	0.00	0.00			
<b>EXTRACTABLE MINORS</b>							
	Boron** (ppm)	2.84	2.03	1.92			
	Iron** (ppm)	193	178	250			
	Manganese** (ppm)	131	112	98			
	Copper** (ppm)	0.98	0.45	0.89			
	Zinc** (ppm)	5.29	3.97	6.42			
	Aluminum** (ppm)	69	46	74			
<b>OTHER TESTS</b>	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO <sub>3</sub> -N (ppm)		5.5	13.3	10.3		
	NH <sub>4</sub> -N (ppm)		2.0	1.5	2.1		

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## SOIL AUDIT AND INVENTORY REPORT

Name El Dorado Golf and Beach Club City BCS State MEXIndependent Consultant Soil and Water Consulting Date 10/3/2022

Sample Location	GREEN	1	9	18			
Sample Identification							
Lab Number		0133-1	0134-1	0135-1			
Total Exchange Capacity (ME/100 g)		5.32	5.95	5.64			
pH (H <sub>2</sub> O 1:1)		a 7.4	a 7.8	a 7.4			
Organic Matter (360°C LOI) %		1.62	1.46	1.65			
Estimated Nitrogen Release lb/A		52	49	53			
<b>ANIONS</b>	SOLUBLE SULFUR* ppm	13	15	16			
	<b>PHOSPHORUS</b>	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
		BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
		OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	119 26	206 45	174 38		
<b>EXCHANGEABLE CATIONS</b>	CALCIUM* lb/A	1374	1564	1444			
	ppm	687	782	722			
	MAGNESIUM* lb/A	208	260	250			
	ppm	104	130	125			
	POTASSIUM* lb/A	260	244	230			
ppm	130	122	115				
SODIUM* lb/A	216	196	214				
ppm	108	98	107				
<b>BASE SATURATION PERCENT</b>							
Calcium	%	64.57	65.71	64.01			
Magnesium	%	16.29	18.21	18.47			
Potassium	%	6.27	5.26	5.23			
Sodium	%	8.83	7.16	8.25			
Other Bases	%	4.00	3.60	4.00			
Hydrogen	%	0.00	0.00	0.00			
<b>EXTRACTABLE MINORS</b>							
Boron** (ppm)		0.65	0.74	0.77			
Iron** (ppm)		457	552	557			
Manganese** (ppm)		156	146	157			
Copper** (ppm)		0.68	0.43	0.75			
Zinc** (ppm)		8.94	10.01	9.96			
Aluminum** (ppm)		74	65	71			
<b>OTHER TESTS</b>	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO <sub>3</sub> -N (ppm)		5.3	6.2	3.6		
	NH <sub>4</sub> -N (ppm)		2.8	1.5	1.9		

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