

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-5

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 10/29/2020

Sample Location	FAIRWAY	4	10	15		
Sample Identification						
Lab Number		0328-1	0329-1	0330-1		
Total Exchange Capacity (ME/100 g)		29.74	20.54	22.23		
pH (H ₂ O 1:1)		a 7.6	a 7.6	a 7.5		
Organic Matter (360°C LOI) %		6.89	7.28	6.89		
Estimated Nitrogen Release lb/A		109	111	109		
ANIONS	SOLUBLE SULFUR*	ppm	58	57	85	
	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	82 18	96 21	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	6530	4844	5042	
		ppm	3265	2422	2521	
	MAGNESIUM*	lb/A	2392	1438	1458	
		ppm	1196	719	729	
	POTASSIUM*	lb/A	924	696	1276	
		ppm	462	348	638	
	SODIUM*	lb/A	520	352	480	
		ppm	260	176	240	
BASE SATURATION PERCENT						
	Calcium	%	54.89	58.96	56.70	
	Magnesium	%	33.51	29.17	27.33	
	Potassium	%	3.98	4.34	7.36	
	Sodium	%	3.80	3.73	4.69	
	Other Bases	%	3.80	3.80	3.90	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		2.10	2.01	2.05	
	Iron** (ppm)		123	131	184	
	Manganese** (ppm)		60	64	38	
	Copper** (ppm)		3.84	2.40	2.94	
	Zinc** (ppm)		7.04	7.70	8.25	
	Aluminum** (ppm)		229	183	186	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		13.0	9.2	14.8	
	NH ₄ -N (ppm)		5.7	2.0	3.3	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location GREEN		2	4	6	10	12
Sample Identification						
Lab Number		0331-1	0332-1	0333-1	0334-1	0335-1
Total Exchange Capacity (ME/100 g)		5.95	4.49	4.23	4.36	4.87
pH (H ₂ O 1:1)		a 8.4	a 8.0	a 8.3	a 7.9	a 7.9
Organic Matter (360°C LOI) %		1.21	0.92	1.01	1.05	1.07
Estimated Nitrogen Release lb/A		44	37	40	41	41
ANIONS	SOLUBLE SULFUR* ppm	12	12	11	11	9
	MEHLICH III lb/A P as P₂O₅ ppm of P					
	BRAY II lb/A P as P₂O₅ ppm of P					
	OLSEN lb/A P as P₂O₅ ppm of P	50 11	27 6	41 9	32 7	32 7
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	1772 886	1302 651	1228 614	1240 620	1396 698
	MAGNESIUM* lb/A ppm	224 112	182 91	166 83	190 95	198 99
	POTASSIUM* lb/A ppm	180 90	138 69	160 80	120 60	172 86
	SODIUM* lb/A ppm	80 40	66 33	62 31	74 37	76 38
BASE SATURATION PERCENT						
Calcium %		74.45	72.49	72.58	71.10	71.66
Magnesium %		15.69	16.89	16.35	18.16	16.94
Potassium %		3.88	3.94	4.85	3.53	4.53
Sodium %		2.92	3.20	3.19	3.69	3.39
Other Bases %		3.00	3.40	3.10	3.50	3.50
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron** (ppm)		0.80	0.44	0.61	0.66	0.59
Iron** (ppm)		72	60	63	61	77
Manganese** (ppm)		29	34	30	34	30
Copper** (ppm)		0.60	0.48	0.57	0.41	0.57
Zinc** (ppm)		7.37	7.11	8.10	7.40	7.46
Aluminum** (ppm)		55	51	52	55	55
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	< 0.5	1.1	1.5	0.6	1.0
	NH ₄ -N (ppm)	< 0.5	< 0.5	< 0.5	0.6	< 0.5

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Sample Location	GREEN	15				
Sample Identification						
Lab Number		0336-1				
Total Exchange Capacity (ME/100 g)		5.65				
pH (H ₂ O 1:1)		a 7.8				
Organic Matter (360°C LOI) %		1.05				
Estimated Nitrogen Release lb/A		41				
ANIONS	SOLUBLE SULFUR*	ppm	10			
	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	23 5			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1656 828			
	MAGNESIUM*	lb/A ppm	230 115			
	POTASSIUM*	lb/A ppm	134 67			
	SODIUM*	lb/A ppm	82 41			
BASE SATURATION PERCENT						
	Calcium	%	73.27			
	Magnesium	%	16.96			
	Potassium	%	3.04			
	Sodium	%	3.16			
	Other Bases	%	3.60			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.60			
	Iron** (ppm)		63			
	Manganese** (ppm)		33			
	Copper** (ppm)		0.49			
	Zinc** (ppm)		8.05			
	Aluminum** (ppm)		52			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.2			
	NH ₄ -N (ppm)		< 0.5			

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