

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-7

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 10/7/2021

Sample Location	FAIRWAY	9	11	17		
Sample Identification						
Lab Number		0642-1	0643-1	0644-1		
Total Exchange Capacity (ME/100 g)		35.29	25.46	21.47		
pH (H ₂ O 1:1)		7.3	^a 7.8	7.2		
Organic Matter (360°C LOI) %		5.97	2.99	6.10		
Estimated Nitrogen Release lb/A		105	80	106		
ANIONS	SOLUBLE SULFUR*	ppm	508	500	90	
	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	46 10	55 12	92 20	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	8302	6376	4962	
		ppm	4151	3188	2481	
	MAGNESIUM*	lb/A	2292	1340	1274	
		ppm	1146	670	637	
	POTASSIUM*	lb/A	776	420	1196	
		ppm	388	210	598	
	SODIUM*	lb/A	1168	1142	610	
		ppm	584	571	305	
BASE SATURATION PERCENT						
	Calcium	%	58.81	62.61	57.78	
	Magnesium	%	27.06	21.93	24.72	
	Potassium	%	2.82	2.11	7.14	
	Sodium	%	7.20	9.75	6.18	
	Other Bases	%	4.10	3.60	4.20	
	Hydrogen	%	0.00	0.00	0.00	
EXTRACTABLE MINORS						
	Boron** (ppm)		4.16	1.60	2.01	
	Iron** (ppm)		127	238	244	
	Manganese** (ppm)		119	94	92	
	Copper** (ppm)		2.88	3.19	2.99	
	Zinc** (ppm)		9.73	4.57	9.24	
	Aluminum** (ppm)		225	194	278	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		15.1	0.8	25.7	
	NH ₄ -N (ppm)		4.7	1.6	9.3	

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			GREEN	3	5	9	13	14
Sample Identification								
Lab Number				0645-1	0646-1	0647-1	0648-1	0649-1
Total Exchange Capacity (ME/100 g)				6.66	4.50	4.66	4.18	5.48
pH (H ₂ O 1:1)				a 7.7	a 7.5	a 7.5	a 7.5	a 7.7
Organic Matter (360°C LOI) %				1.17	1.14	1.29	1.50	1.19
Estimated Nitrogen Release lb/A				43	43	46	50	44
ANIONS	SOLUBLE SULFUR* ppm			31	29	28	27	27
	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	69 15	64 14	55 12	60 13	23 5
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	2012	1270	1324	1222	1704
			ppm	1006	635	662	611	852
	MAGNESIUM*		lb/A	198	156	184	150	158
			ppm	99	78	92	75	79
	POTASSIUM*		lb/A	182	164	110	86	86
			ppm	91	82	55	43	43
	SODIUM*		lb/A	148	132	120	104	116
			ppm	74	66	60	52	58
BASE SATURATION PERCENT								
Calcium %				75.53	70.56	71.03	73.09	77.74
Magnesium %				12.39	14.44	16.45	14.95	12.01
Potassium %				3.50	4.67	3.03	2.64	2.01
Sodium %				4.83	6.38	5.60	5.41	4.60
Other Bases %				3.70	3.90	3.90	3.90	3.70
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.73	0.75	0.64	0.79	0.71
Iron** (ppm)				160	112	123	116	132
Manganese** (ppm)				66	67	85	79	82
Copper** (ppm)				0.93	0.80	1.12	0.79	0.70
Zinc** (ppm)				10.56	9.42	12.26	10.10	11.33
Aluminum** (ppm)				87	76	78	68	78
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			2.3	2.0	2.2	1.5	2.2
	NH4-N (ppm)			0.9	0.8	1.4	1.1	0.6

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Sample Location		GREEN	17				
Sample Identification							
Lab Number			0650-1				
Total Exchange Capacity (ME/100 g)			5.17				
pH (H ₂ O 1:1)			a 7.6				
Organic Matter (360°C LOI) %			1.27				
Estimated Nitrogen Release lb/A			45				
ANIONS	SOLUBLE SULFUR* ppm		27				
	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	27 6				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		1576 788				
	MAGNESIUM* lb/A ppm		160 80				
	POTASSIUM* lb/A ppm		84 42				
	SODIUM* lb/A ppm		118 59				
BASE SATURATION PERCENT							
Calcium %			76.21				
Magnesium %			12.89				
Potassium %			2.08				
Sodium %			4.96				
Other Bases %			3.80				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.68				
Iron** (ppm)			116				
Manganese** (ppm)			86				
Copper** (ppm)			0.69				
Zinc** (ppm)			10.47				
Aluminum** (ppm)			80				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)			3.4			
	NH ₄ -N (ppm)			1.0			

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