

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

80417-10

Name Los Robles Greens Golf Course City _____ State _____Independent Consultant Soil and Water Consulting Date 3/16/2023

Sample Location			FAIRWAY	1	2	10		
Sample Identification								
Lab Number				0424-1	0425-1	0426-1		
Total Exchange Capacity (ME/100 g)				20.52	20.25	15.98		
pH (H ₂ O 1:1)				7.2	^a 7.6	6.9		
Organic Matter (360°C LOI) %				7.53	8.04	6.09		
Estimated Nitrogen Release lb/A				113	115	105		
ANIONS	SOLUBLE SULFUR* ppm			16	13	10		
	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	96 21	92 20	128 28			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	5006	5414	3838		
			ppm	2503	2707	1919		
	MAGNESIUM*		lb/A	1378	1138	1024		
			ppm	689	569	512		
	POTASSIUM*		lb/A	632	662	644		
			ppm	316	331	322		
	SODIUM*		lb/A	274	162	152		
			ppm	137	81	76		
BASE SATURATION PERCENT								
Calcium %				60.99	66.84	60.04		
Magnesium %				27.98	23.42	26.70		
Potassium %				3.95	4.19	5.17		
Sodium %				2.90	1.74	2.07		
Other Bases %				4.20	3.80	4.50		
Hydrogen %				0.00	0.00	1.50		
EXTRACTABLE MINORS								
Boron** (ppm)				2.12	2.09	1.41		
Iron** (ppm)				217	239	220		
Manganese** (ppm)				103	144	85		
Copper** (ppm)				3.16	3.72	2.33		
Zinc** (ppm)				8.65	9.25	9.79		
Aluminum** (ppm)				222	208	262		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			19.7	21.2	16.6		
	NH4-N (ppm)			11.4	10.4	4.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			GREEN	1	8	10	11	12
Sample Identification								
Lab Number				0427-1	0428-1	0429-1	0430-1	0431-1
Total Exchange Capacity (ME/100 g)				4.83	4.99	4.77	5.41	4.90
pH (H ₂ O 1:1)				a 7.4	7.3	7.3	7.3	7.2
Organic Matter (360°C LOI) %				1.34	1.00	1.36	1.10	1.24
Estimated Nitrogen Release lb/A				47	40	47	42	45
ANIONS	SOLUBLE SULFUR* ppm			15	14	23	27	25
	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	46 10	46 10	73 16	50 11	82 18	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1450	1526	1378	1606	1454
			ppm	725	763	689	803	727
	MAGNESIUM*		lb/A	178	174	200	204	184
			ppm	89	87	100	102	92
	POTASSIUM*		lb/A	122	114	148	160	156
			ppm	61	57	74	80	78
	SODIUM*		lb/A	52	44	48	54	42
			ppm	26	22	24	27	21
BASE SATURATION PERCENT								
Calcium %				75.05	76.45	72.22	74.21	74.18
Magnesium %				15.36	14.53	17.47	15.71	15.65
Potassium %				3.24	2.93	3.98	3.79	4.08
Sodium %				2.34	1.92	2.19	2.17	1.86
Other Bases %				4.00	4.10	4.10	4.10	4.20
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.69	0.58	0.71	0.58	0.61
Iron** (ppm)				121	107	111	131	89
Manganese** (ppm)				85	87	88	58	59
Copper** (ppm)				0.77	0.83	0.89	0.51	0.58
Zinc** (ppm)				11.90	9.81	12.15	10.75	9.70
Aluminum** (ppm)				69	69	72	72	58
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			2.1	4.6	4.3	3.3	2.5
	NH4-N (ppm)			1.3	1.3	1.3	1.6	1.9

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Sample Location	GREEN	16				
Sample Identification						
Lab Number		0432-1				
Total Exchange Capacity (ME/100 g)		5.22				
pH (H ₂ O 1:1)		7.3				
Organic Matter (360°C LOI) %		0.99				
Estimated Nitrogen Release lb/A		40				
ANIONS	SOLUBLE SULFUR*	ppm	28			
	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	82 18			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1562 781			
	MAGNESIUM*	lb/A ppm	182 91			
	POTASSIUM*	lb/A ppm	186 93			
	SODIUM*	lb/A ppm	46 23			
BASE SATURATION PERCENT						
	Calcium	%	74.81			
	Magnesium	%	14.53			
	Potassium	%	4.57			
	Sodium	%	1.92			
	Other Bases	%	4.10			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		0.43			
	Iron** (ppm)		123			
	Manganese** (ppm)		71			
	Copper** (ppm)		0.91			
	Zinc** (ppm)		9.46			
	Aluminum** (ppm)		66			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		3.4			
	NH ₄ -N (ppm)		1.3			

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** Mehlich III Extractable