

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 10/25/2017

Sample Location		DRIVING RANGE		PG				
Sample Identification								
Lab Number				0319-1				
Total Exchange Capacity (ME/100 g)				10.72				
pH	Buffer (SMP/Sikora)			7.4				
	H ₂ O (1:1)			6.8				
Organic Matter (360°C LOI) %				4.52				
Estimated Nitrogen Release lb/A				95				
ANIONS	SOLUBLE SULFUR*		ppm	22				
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	1534 335				
		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					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3268					
		ppm	1634					
	MAGNESIUM*	lb/A	266					
		ppm	133					
	POTASSIUM*	lb/A	368					
	ppm		184					
	SODIUM*	lb/A	72					
	ppm		36					
BASE SATURATION PERCENT								
Calcium		%	76.21					
Magnesium		%	10.34					
Potassium		%	4.40					
Sodium		%	1.46					
Other Bases		%	4.60					
Hydrogen		%	3.00					
EXTRACTABLE MINORS								
Boron* (ppm)			0.63					
Iron* (ppm)			397					
Manganese* (ppm)			9					
Copper* (ppm)			2.62					
Zinc* (ppm)			26.06					
Aluminum* (ppm)			545					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)			2.8				
	NH ₄ -N (ppm)			0.7				

* Mehlich III Extractable

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Sample Location <u>GREEN</u>		1	8	12	18	
Sample Identification						
Lab Number		0320-1	0321-1	0322-1	0323-1	
Total Exchange Capacity (ME/100 g)		11.08	9.85	9.67	9.24	
pH	Buffer (SMP/Sikora)	7.3	7.5	7.3	7.4	
	H ₂ O (1:1)	6.8	6.9	6.9	6.7	
Organic Matter (360°C LOI) %		5.22	4.20	4.56	4.45	
Estimated Nitrogen Release lb/A		101	92	96	94	
ANIONS	SOLUBLE SULFUR*	ppm	21	20	19	20
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1191	1484	1461	1365
			260	324	319	298
		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				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	3354	3056	3004	2788
		ppm	1677	1528	1502	1394
	MAGNESIUM*	lb/A	318	268	242	222
		ppm	159	134	121	111
	POTASSIUM*	lb/A	300	282	332	278
		ppm	150	141	166	139
	SODIUM*	lb/A	66	64	66	64
		ppm	33	32	33	32
BASE SATURATION PERCENT						
Calcium %		75.68	77.56	77.66	75.43	
Magnesium %		11.96	11.34	10.43	10.01	
Potassium %		3.47	3.67	4.40	3.86	
Sodium %		1.29	1.41	1.48	1.51	
Other Bases %		4.60	4.50	4.50	4.70	
Hydrogen %		3.00	1.50	1.50	4.50	
EXTRACTABLE MINORS						
Boron* (ppm)		0.62	0.68	0.61	0.56	
Iron* (ppm)		411	369	383	380	
Manganese* (ppm)		9	11	9	8	
Copper* (ppm)		2.44	2.39	2.16	2.09	
Zinc* (ppm)		32.13	21.21	53.88	24.60	
Aluminum* (ppm)		443	489	487	472	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.3	1.9	2.3	2.2	
	NH ₄ -N (ppm)	2.2	1.6	1.6	1.8	

* Mehlich III Extractable