

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 4/25/2018

Sample Location TEE		5	10	16		
Sample Identification						
Lab Number		0008-1	0009-1	0010-1		
Total Exchange Capacity (ME/100 g)		7.45	6.01	3.43		
pH	Buffer (SMP/Sikora)	NA	NA	a NA		
	H ₂ O (1:1)	7.2	7.3	7.4		
Organic Matter (360°C LOI) %		3.08	3.60	1.96		
Estimated Nitrogen Release lb/A		81	86	59		
ANIONS	SOLUBLE SULFUR*	ppm	13	23	14	
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1063	595	779		
	BRAY II lb/A P as P ₂ O ₅ ppm of P	232	130	170		
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2304	1804	1074	
		ppm	1152	902	537	
	MAGNESIUM*	lb/A	248	210	106	
		ppm	124	105	53	
	POTASSIUM*	lb/A	190	202	66	
		ppm	95	101	33	
	SODIUM*	lb/A	48	56	36	
		ppm	24	28	18	
BASE SATURATION PERCENT						
Calcium %		77.32	75.04	78.28		
Magnesium %		13.87	14.56	12.88		
Potassium %		3.27	4.31	2.47		
Sodium %		1.40	2.03	2.28		
Other Bases %		4.20	4.10	4.00		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.49	0.44	0.43		
Iron* (ppm)		348	373	394		
Manganese* (ppm)		23	17	14		
Copper* (ppm)		2.04	1.39	2.57		
Zinc* (ppm)		10.99	8.19	8.17		
Aluminum* (ppm)		510	469	231		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.8	0.8	< 0.5		
	NH ₄ -N (ppm)	3.8	3.4	2.4		

a - alkaline soil

* Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>		5	10	16		
Sample Identification						
Lab Number		0011-1	0012-1	0013-1		
Total Exchange Capacity (ME/100 g)		4.54	5.22	5.75		
pH	Buffer (SMP/Sikora)	NA	7.3	7.3		
	H ₂ O (1:1)	7.2	7.0	6.7		
Organic Matter (360°C LOI) %		2.78	4.37	3.49		
Estimated Nitrogen Release lb/A		76	94	85		
ANIONS	SOLUBLE SULFUR*	ppm	12	17	16	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	435	366	431	
			95	80	94	
		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	1374	1534	1578	
		ppm	687	767	789	
	MAGNESIUM*	lb/A	152	214	216	
		ppm	76	107	108	
	POTASSIUM*	lb/A	128	116	208	
		ppm	64	58	104	
	SODIUM*	lb/A	52	54	52	
		ppm	26	27	26	
BASE SATURATION PERCENT						
Calcium %		75.66	73.47	68.61		
Magnesium %		13.95	17.08	15.65		
Potassium %		3.61	2.85	4.64		
Sodium %		2.49	2.25	1.97		
Other Bases %		4.20	4.40	4.70		
Hydrogen %		0.00	0.00	4.50		
EXTRACTABLE MINORS						
Boron* (ppm)		2.40	1.28	0.66		
Iron* (ppm)		187	388	231		
Manganese* (ppm)		3	3	3		
Copper* (ppm)		0.70	1.02	0.78		
Zinc* (ppm)		4.82	8.27	6.57		
Aluminum* (ppm)		450	390	642		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.5	1.3	1.3		
	NH ₄ -N (ppm)	4.3	3.4	5.7		

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Sample Location			GREEN	5	10	16		
Sample Identification								
Lab Number				0014-1	0015-1	0016-1		
Total Exchange Capacity (ME/100 g)				7.73	9.53	7.25		
pH	Buffer (SMP/Sikora)			NA	7.2	NA		
	H ₂ O (1:1)			7.2	6.8	7.1		
Organic Matter (360°C LOI) %				3.26	4.15	3.65		
Estimated Nitrogen Release lb/A				83	92	86		
ANIONS	SOLUBLE SULFUR*							
			ppm	13	13	13		
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅	1282	1319	1209		
			ppm of P	280	288	264		
		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	2416	3002	2284			
		ppm	1208	1501	1142			
	MAGNESIUM*	lb/A	236	206	200			
		ppm	118	103	100			
	POTASSIUM*	lb/A	210	252	218			
		ppm	105	126	109			
	SODIUM*	lb/A	50	54	52			
		ppm	25	27	26			
BASE SATURATION PERCENT								
Calcium	%		78.14	78.75	78.76			
Magnesium	%		12.72	9.01	11.49			
Potassium	%		3.48	3.39	3.85			
Sodium	%		1.41	1.23	1.56			
Other Bases	%		4.20	4.60	4.30			
Hydrogen	%		0.00	3.00	0.00			
EXTRACTABLE MINORS								
	Boron* (ppm)		0.79	0.54	0.62			
	Iron* (ppm)		318	324	315			
	Manganese* (ppm)		9	8	8			
	Copper* (ppm)		1.84	1.88	1.93			
	Zinc* (ppm)		38.49	15.33	13.79			
	Aluminum* (ppm)		365	504	402			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO ₃ -N (ppm)		< 0.5	1.3	0.7			
	NH ₄ -N (ppm)		2.1	1.8	2.1			

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