

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 10/12/2018

Sample Location	TEE	1	8	17		
Sample Identification						
Lab Number		0004-1	0005-1	0006-1		
Total Exchange Capacity (ME/100 g)		7.85	9.00	8.06		
pH	Buffer (SMP/Sikora)	7.6	7.4	7.6		
	H ₂ O (1:1)	7.0	6.8	6.9		
Organic Matter (360°C LOI) %		3.58	3.80	2.84		
Estimated Nitrogen Release	lb/A	86	88	77		
ANIONS	SOLUBLE SULFUR*					
	ppm	22	20	19		
	MEHLICH III lb/A P as P ₂ O ₅	751	870	600		
	ppm of P	164	190	131		
	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	2354	2724	2512	
	ppm		1177	1362	1256	
	MAGNESIUM*	lb/A	256	234	192	
	ppm		128	117	96	
	POTASSIUM*	lb/A	274	270	244	
	ppm		137	135	122	
	SODIUM*	lb/A	92	84	84	
	ppm		46	42	42	
BASE SATURATION PERCENT						
Calcium	%	74.97	75.67	77.92		
Magnesium	%	13.59	10.83	9.93		
Potassium	%	4.47	3.85	3.88		
Sodium	%	2.55	2.03	2.27		
Other Bases	%	4.40	4.60	4.50		
Hydrogen	%	0.00	3.00	1.50		
EXTRACTABLE MINORS						
Boron* (ppm)		0.65	0.51	0.60		
Iron* (ppm)		288	346	322		
Manganese* (ppm)		16	9	22		
Copper* (ppm)		2.49	2.45	3.01		
Zinc* (ppm)		6.75	8.94	5.45		
Aluminum* (ppm)		537	497	499		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	7.1	5.3	6.7		
	NH ₄ -N (ppm)	7.8	5.8	9.1		

* Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>		1	8	17		
Sample Identification						
Lab Number		0007-1	0008-1	0009-1		
Total Exchange Capacity (ME/100 g)		7.68	11.94	9.12		
pH	Buffer (SMP/Sikora)	7.5	7.0	7.3		
	H ₂ O (1:1)	6.9	6.0	6.1		
Organic Matter (360°C LOI) %		3.13	6.76	3.46		
Estimated Nitrogen Release lb/A		81	109	85		
ANIONS	SOLUBLE SULFUR*	ppm	21	23	27	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	769	536	591	
			168	117	129	
		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	2230	3066	2310	
		ppm	1115	1533	1155	
	MAGNESIUM*	lb/A	246	300	256	
		ppm	123	150	128	
	POTASSIUM*	lb/A	336	292	282	
		ppm	168	146	141	
	SODIUM*	lb/A	88	100	96	
		ppm	44	50	48	
BASE SATURATION PERCENT						
Calcium %		72.59	64.20	63.32		
Magnesium %		13.35	10.47	11.70		
Potassium %		5.61	3.14	3.96		
Sodium %		2.49	1.82	2.29		
Other Bases %		4.50	5.40	5.20		
Hydrogen %		1.50	15.00	13.50		
EXTRACTABLE MINORS						
Boron* (ppm)		0.49	0.45	0.60		
Iron* (ppm)		295	355	478		
Manganese* (ppm)		4	4	5		
Copper* (ppm)		1.44	1.44	1.67		
Zinc* (ppm)		3.05	9.88	5.74		
Aluminum* (ppm)		540	621	420		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.4	14.4	11.4		
	NH ₄ -N (ppm)	4.2	6.3	4.6		

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Sample Location	GREEN	1	8	17		
Sample Identification						
Lab Number		0010-1	0011-1	0012-1		
Total Exchange Capacity (ME/100 g)		12.46	11.45	13.04		
pH	Buffer (SMP/Sikora)	7.5	7.5	7.4		
	H ₂ O (1:1)	6.7	6.8	6.8		
Organic Matter (360°C LOI) %		4.72	3.65	4.13		
Estimated Nitrogen Release	lb/A	97	86	91		
ANIONS	SOLUBLE SULFUR*					
	ppm	21	19	20		
	MEHLICH III lb/A P as P ₂ O ₅	1255	1539	1937		
	ppm of P	274	336	423		
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM*	lb/A	3790	3588	4128	
	ppm		1895	1794	2064	
	MAGNESIUM*	lb/A	306	262	268	
BASE SATURATION PERCENT	ppm		153	131	134	
	POTASSIUM*	lb/A	280	254	314	
	ppm		140	127	157	
	SODIUM*	lb/A	96	90	98	
	ppm		48	45	49	
Calcium	%	76.04	78.34	79.14		
Magnesium	%	10.23	9.53	8.56		
Potassium	%	2.88	2.84	3.09		
Sodium	%	1.67	1.71	1.63		
Other Bases	%	4.70	4.60	4.60		
Hydrogen	%	4.50	3.00	3.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.55	0.71	0.59		
	Iron* (ppm)	335	294	390		
	Manganese* (ppm)	8	11	12		
	Copper* (ppm)	2.78	2.70	3.51		
	Zinc* (ppm)	30.16	20.20	18.96		
	Aluminum* (ppm)	425	465	486		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.3	14.4	2.3		
	NH ₄ -N (ppm)	3.7	2.6	3.3		

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