

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Ramblewood Country Club City Mount Laurel State NJIndependent Consultant Soil and Water Consulting Date 5/5/2016

Sample Location <u>RED COURSE</u>		TEE	FAIRWAY	GREEN		
Sample Identification		1	1	1		
Lab Number		0592-1	0593-1	0594-1		
Total Exchange Capacity (ME/100 g)		7.06	10.72	5.27		
pH (H ₂ O 1:1)		6.2	6.6	5.8		
Organic Matter (humus) %		2.92	4.26	1.55		
Estimated Nitrogen Release lb/A		78	93	51		
ANIONS	SOLUBLE SULFUR* ppm	14	13	38		
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1053	710	673		
		230	155	147		
	BRAY II lb/A P as P ₂ O ₅ ppm of P	1347	966	756		
		294	211	165		
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1798	3118	1220		
	ppm	899	1559	610		
	MAGNESIUM* lb/A	234	298	138		
	ppm	117	149	69		
	POTASSIUM* lb/A	190	310	98		
	ppm	95	155	49		
	SODIUM* lb/A	60	58	50		
	ppm	30	29	25		
BASE SATURATION PERCENT						
Calcium %		63.67	72.71	57.87		
Magnesium %		13.81	11.58	10.91		
Potassium %		3.45	3.71	2.38		
Sodium %		1.85	1.18	2.06		
Other Bases %		5.20	4.80	5.80		
Hydrogen %		12.00	6.00	21.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.51	0.70	0.61		
Iron* (ppm)		409	623	399		
Manganese* (ppm)		7	2	24		
Copper* (ppm)		2.83	0.29	2.16		
Zinc* (ppm)		16.61	4.14	9.46		
Aluminum* (ppm)		558	486	212		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Ramblewood Country Club City Mount Laurel State NJIndependent Consultant Soil and Water Consulting Date 5/5/2016

Sample Location				WHITE COURSE		TEE	FAIRWAY	GREEN		
Sample Identification						1	1	1		
Lab Number						0595-1	0596-1	0597-1		
Total Exchange Capacity (ME/100 g)						6.56	12.42	8.79		
pH (H ₂ O 1:1)						6.1	6.7	6.2		
Organic Matter (humus) %						2.44	4.12	3.32		
Estimated Nitrogen Release				lb/A		69	91	83		
ANIONS	SOLUBLE SULFUR*				ppm	16	41	67		
	PHOSPHORUS	MEHLICH III		lb/A	P as P ₂ O ₅	921	618	1044		
					ppm of P	201	135	228		
		BRAY II		lb/A	P as P ₂ O ₅	1122	1177	1479		
					ppm of P	245	257	323		
EXCHANGEABLE CATIONS	CALCIUM*		lb/A		1622	3524	2274			
			ppm		811	1762	1137			
	MAGNESIUM*		lb/A		208	454	280			
			ppm		104	227	140			
	POTASSIUM*		lb/A		206	312	208			
		ppm		103	156	104				
SODIUM*		lb/A		66	82	74				
		ppm		33	41	37				
BASE SATURATION PERCENT										
Calcium				%		61.81	70.93	64.68		
Magnesium				%		13.21	15.23	13.27		
Potassium				%		4.03	3.22	3.03		
Sodium				%		2.19	1.44	1.83		
Other Bases				%		5.20	4.70	5.20		
Hydrogen				%		13.50	4.50	12.00		
EXTRACTABLE MINORS										
Boron* (ppm)						0.38	0.63	0.65		
Iron* (ppm)						467	513	607		
Manganese* (ppm)						6	5	17		
Copper* (ppm)						2.26	1.17	1.76		
Zinc* (ppm)						13.76	5.23	12.24		
Aluminum* (ppm)						492	440	324		
OTHER TESTS	Soluble Salts (mmhos/cm)									
	Chlorides (ppm)									

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Ramblewood Country Club City Mount Laurel State NJIndependent Consultant Soil and Water Consulting Date 5/5/2016

Sample Location <u>BLUE COURSE</u>		TEE	FAIRWAY	GREEN		
Sample Identification		7	7	7		
Lab Number		0598-1	0599-1	0600-1		
Total Exchange Capacity (ME/100 g)		10.28	8.41	4.40		
pH (H ₂ O 1:1)		6.4	7.1	5.6		
Organic Matter (humus) %		4.91	2.95	1.55		
Estimated Nitrogen Release lb/A		99	79	51		
ANIONS	SOLUBLE SULFUR* ppm	13	15	23		
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	476	943	779		
	BRAY II lb/A P as P ₂ O ₅ ppm of P	898	1411	756		
	OLSEN lb/A P as P ₂ O ₅ ppm of P	196	308	165		
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2740	2646	942		
	MAGNESIUM* lb/A ppm	360	250	94		
	POTASSIUM* lb/A ppm	270	210	70		
	SODIUM* lb/A ppm	68	58	48		
		1370	1323	471		
		180	125	47		
		135	105	35		
		34	29	24		
BASE SATURATION PERCENT						
Calcium %		66.63	78.66	53.52		
Magnesium %		14.59	12.39	8.90		
Potassium %		3.37	3.20	2.04		
Sodium %		1.44	1.50	2.37		
Other Bases %		5.00	4.30	6.20		
Hydrogen %		9.00	0.00	27.00		
EXTRACTABLE MINORS						
Boron* (ppm)		0.75	0.63	0.41		
Iron* (ppm)		760	530	476		
Manganese* (ppm)		2	6	11		
Copper* (ppm)		0.62	1.19	2.19		
Zinc* (ppm)		7.05	9.15	11.72		
Aluminum* (ppm)		248	363	274		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable