

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Maplewood Country Club City Maplewood State NJ

Independent Consultant Soil and Water Consulting Date 5/19/2023

Sample Location	TEE	2	7	11		
Sample Identification						
Lab Number		1608-1	1609-1	1610-1		
Total Exchange Capacity (ME/100 g)		7.09	1.96	8.56		
pH	Buffer (SMP/Sikora)	7.4	a NA	7.5		
	H ₂ O (1:1)	6.7	7.5	6.9		
Organic Matter (360°C LOI) %		2.73	0.95	4.14		
Estimated Nitrogen Release lb/A		75	38	91		
ANIONS	SOLUBLE SULFUR*					
		ppm	14	5	15	
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	980	105	1154	
		BRAY II lb/A P as P ₂ O ₅ ppm of P	214	23	252	
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*					
		lb/A	2144	620	2748	
		ppm	1072	310	1374	
	MAGNESIUM*					
		lb/A	198	60	214	
		ppm	99	30	107	
	POTASSIUM*					
		lb/A	96	20	140	
	ppm	48	10	70		
SODIUM*						
	lb/A	60	26	50		
	ppm	30	13	25		
BASE SATURATION PERCENT						
Calcium %		75.60	79.08	80.26		
Magnesium %		11.64	12.76	10.42		
Potassium %		1.74	1.31	2.10		
Sodium %		1.84	2.88	1.27		
Other Bases %		4.70	3.90	4.50		
Hydrogen %		4.50	0.00	1.50		
EXTRACTABLE MINORS						
Boron* (ppm)		0.52	< 0.20	0.42		
Iron* (ppm)		561	60	269		
Manganese* (ppm)		38	13	33		
Copper* (ppm)		6.17	0.77	5.03		
Zinc* (ppm)		18.35	1.53	7.88		
Aluminum* (ppm)		311	50	694		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		3.4	< 0.5	2.4	
	NH ₄ -N (ppm)		2.4	2.3	4.6	

a - alkaline soil

* Mehlich III Extractable

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Sample Location		2	7	11			
FAIRWAY							
Sample Identification							
Lab Number		1611-1	1612-1	1613-1			
Total Exchange Capacity (ME/100 g)		7.72	8.05	7.42			
pH	Buffer (SMP/Sikora)	7.5	7.4	7.3			
	H ₂ O (1:1)	6.9	6.3	6.4			
Organic Matter (360°C LOI) %		3.93	3.93	4.73			
Estimated Nitrogen Release lb/A		89	89	97			
ANIONS	SOLUBLE SULFUR*						
		ppm	12	16	16		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	421	747	481		
		BRAY II lb/A P as P ₂ O ₅ ppm of P	92	163	105		
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		2450	2304	2178		
		ppm	1225	1152	1089		
	MAGNESIUM*		210	188	164		
		ppm	105	94	82		
	POTASSIUM*		98	84	86		
		ppm	49	42	43		
	SODIUM*		60	64	64		
		ppm	30	32	32		
BASE SATURATION PERCENT							
Calcium %		79.34	71.55	73.38			
Magnesium %		11.33	9.73	9.21			
Potassium %		1.63	1.34	1.49			
Sodium %		1.69	1.73	1.88			
Other Bases %		4.50	5.10	5.00			
Hydrogen %		1.50	10.50	9.00			
EXTRACTABLE MINORS							
Boron* (ppm)		0.52	0.47	0.31			
Iron* (ppm)		331	222	149			
Manganese* (ppm)		11	24	18			
Copper* (ppm)		7.71	10.16	8.51			
Zinc* (ppm)		8.51	20.05	12.99			
Aluminum* (ppm)		398	715	839			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		3.0	2.7	3.5		
	NH ₄ -N (ppm)		4.0	4.1	4.3		

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Sample Location		2	7	11			
GREEN							
Sample Identification							
Lab Number		1614-1	1615-1	1616-1			
Total Exchange Capacity (ME/100 g)		6.28	4.65	6.09			
pH	Buffer (SMP/Sikora)	7.5	NA	7.5			
	H ₂ O (1:1)	6.8	7.2	6.8			
Organic Matter (360°C LOI) %		2.30	1.87	2.17			
Estimated Nitrogen Release lb/A		66	57	63			
ANIONS	SOLUBLE SULFUR*						
		ppm	13	10	12		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1177	861	1081		
		BRAY II lb/A P as P ₂ O ₅ ppm of P	257	188	236		
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		1910	1428	1846		
		ppm	955	714	923		
	MAGNESIUM*		190	168	194		
		ppm	95	84	97		
	POTASSIUM*		88	68	76		
		ppm	44	34	38		
	SODIUM*		56	46	50		
		ppm	28	23	25		
BASE SATURATION PERCENT							
Calcium %		76.04	76.77	75.78			
Magnesium %		12.61	15.05	13.27			
Potassium %		1.80	1.87	1.60			
Sodium %		1.94	2.15	1.78			
Other Bases %		4.60	4.20	4.60			
Hydrogen %		3.00	0.00	3.00			
EXTRACTABLE MINORS							
Boron* (ppm)		0.45	0.28	0.51			
Iron* (ppm)		348	298	361			
Manganese* (ppm)		45	72	65			
Copper* (ppm)		4.44	5.23	4.95			
Zinc* (ppm)		15.18	18.84	18.49			
Aluminum* (ppm)		270	215	248			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.3	1.2	1.4		
	NH ₄ -N (ppm)		1.2	1.6	1.6		

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