

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Maplewood Country Club City Maplewood State NJ

Independent Consultant Soil and Water Consulting Date 10/20/2022

Sample Location		1	9	17			
TEE							
Sample Identification							
Lab Number		0788-1	0789-1	0790-1			
Total Exchange Capacity (ME/100 g)		5.88	8.05	3.26			
pH	Buffer (SMP/Sikora)	7.5	7.4	NA			
	H ₂ O (1:1)	6.8	6.6	7.2			
Organic Matter (360°C LOI) %		2.16	3.35	1.22			
Estimated Nitrogen Release lb/A		63	84	44			
ANIONS	SOLUBLE SULFUR*						
		ppm	14	14	9		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	614	682	266		
		BRAY II lb/A P as P ₂ O ₅ ppm of P	134	149	58		
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*						
		lb/A	1824	2396	1020		
		ppm	912	1198	510		
	MAGNESIUM*						
		lb/A	144	214	100		
		ppm	72	107	50		
	POTASSIUM*						
		lb/A	110	134	54		
	ppm	55	67	27			
SODIUM*							
	lb/A	60	58	42			
	ppm	30	29	21			
BASE SATURATION PERCENT							
Calcium %		77.55	74.41	78.22			
Magnesium %		10.20	11.08	12.78			
Potassium %		2.40	2.13	2.12			
Sodium %		2.22	1.57	2.80			
Other Bases %		4.60	4.80	4.20			
Hydrogen %		3.00	6.00	0.00			
EXTRACTABLE MINORS							
Boron* (ppm)		0.51	0.52	0.46			
Iron* (ppm)		340	345	145			
Manganese* (ppm)		26	19	27			
Copper* (ppm)		3.14	6.09	1.08			
Zinc* (ppm)		13.14	16.72	3.47			
Aluminum* (ppm)		196	334	133			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		3.4	4.7	2.1		
	NH ₄ -N (ppm)		3.2	1.7	1.4		

* Mehlich III Extractable

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Sample Location		1	9	17			
FAIRWAY							
Sample Identification							
Lab Number		0791-1	0792-1	0793-1			
Total Exchange Capacity (ME/100 g)		7.53	10.28	6.40			
pH	Buffer (SMP/Sikora)	7.4	7.4	7.4			
	H ₂ O (1:1)	6.6	6.5	6.5			
Organic Matter (360°C LOI) %		4.78	4.21	2.62			
Estimated Nitrogen Release lb/A		98	92	72			
ANIONS	SOLUBLE SULFUR*						
		ppm	17	16	15		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	398	412	403		
		BRAY II lb/A P as P ₂ O ₅ ppm of P	87	90	88		
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*						
		lb/A	2272	2960	1842		
		ppm	1136	1480	921		
	MAGNESIUM*						
		lb/A	172	292	170		
		ppm	86	146	85		
	POTASSIUM*						
		lb/A	102	134	96		
	ppm	51	67	48			
SODIUM*							
	lb/A	86	98	80			
	ppm	43	49	40			
BASE SATURATION PERCENT							
Calcium %		75.43	71.98	71.95			
Magnesium %		9.52	11.84	11.07			
Potassium %		1.74	1.67	1.92			
Sodium %		2.48	2.07	2.72			
Other Bases %		4.80	4.90	4.90			
Hydrogen %		6.00	7.50	7.50			
EXTRACTABLE MINORS							
Boron* (ppm)		0.57	0.80	0.53			
Iron* (ppm)		247	265	258			
Manganese* (ppm)		20	14	20			
Copper* (ppm)		4.22	15.13	5.79			
Zinc* (ppm)		7.12	34.98	10.19			
Aluminum* (ppm)		345	427	376			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		7.2	7.0	5.8		
	NH ₄ -N (ppm)		4.0	4.0	3.1		

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Sample Location		1	9	17			
GREEN							
Sample Identification							
Lab Number		0794-1	0795-1	0796-1			
Total Exchange Capacity (ME/100 g)		6.14	2.74	6.53			
pH	Buffer (SMP/Sikora)	7.6	7.6	7.6			
	H ₂ O (1:1)	6.7	7.0	6.6			
Organic Matter (360°C LOI) %		1.87	0.71	1.83			
Estimated Nitrogen Release lb/A		57	28	57			
ANIONS	SOLUBLE SULFUR*						
		ppm	18	8	23		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1205	284	1209		
		BRAY II lb/A P as P ₂ O ₅ ppm of P	263	62	264		
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		1812	714	1848		
		ppm	906	357	924		
	MAGNESIUM*		184	82	202		
		ppm	92	41	101		
	POTASSIUM*		102	286	148		
		ppm	51	143	74		
	SODIUM*		70	56	78		
		ppm	35	28	39		
BASE SATURATION PERCENT							
Calcium %		73.78	65.15	70.75			
Magnesium %		12.49	12.47	12.89			
Potassium %		2.13	13.38	2.91			
Sodium %		2.48	4.44	2.60			
Other Bases %		4.70	4.40	4.80			
Hydrogen %		4.50	0.00	6.00			
EXTRACTABLE MINORS							
Boron* (ppm)		0.52	0.25	0.59			
Iron* (ppm)		312	74	358			
Manganese* (ppm)		44	47	41			
Copper* (ppm)		3.59	1.43	3.47			
Zinc* (ppm)		13.94	7.11	12.85			
Aluminum* (ppm)		260	109	300			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.0	1.0	1.8		
	NH ₄ -N (ppm)		< 0.5	< 0.5	< 0.5		

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