

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name East Orange Golf Course City Milburn State NJ

Independent Consultant Soil and Water Consulting Date 7/14/2017

Sample Location TEE				4	15			
Sample Identification								
Lab Number				0449-1	0450-1			
Total Exchange Capacity (ME/100 g)				3.89	9.10			
pH (H ₂ O 1:1)				6.8	6.5			
Organic Matter (360°C LOI) %				0.74	3.20			
Estimated Nitrogen Release lb/A				30	82			
ANIONS	SOLUBLE SULFUR* ppm			16	21			
	PHOSPHORUS	MEHLICH III lb/A	P as P ₂ O ₅	614	1131			
			ppm of P	134	247			
		BRAY II lb/A	P as P ₂ O ₅	431	1324			
			ppm of P	94	289			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1134	2528				
		ppm	567	1264				
	MAGNESIUM*	lb/A	106	292				
		ppm	53	146				
	POTASSIUM*	lb/A	142	222				
		ppm	71	111				
	SODIUM*	lb/A	64	68				
		ppm	32	34				
BASE SATURATION PERCENT								
	Calcium	%	72.88	69.45				
	Magnesium	%	11.35	13.37				
	Potassium	%	4.68	3.13				
	Sodium	%	3.58	1.62				
	Other Bases	%	4.60	4.90				
	Hydrogen	%	3.00	7.50				
EXTRACTABLE MINORS								
	Boron* (ppm)		0.65	0.63				
	Iron* (ppm)		204	403				
	Manganese* (ppm)		43	31				
	Copper* (ppm)		1.20	5.89				
	Zinc* (ppm)		3.35	8.63				
	Aluminum* (ppm)		783	694				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name East Orange Golf Course City Milburn State NJ

Independent Consultant Soil and Water Consulting Date 7/14/2017

Sample Location <u>FAIRWAY</u>		4	15			
Sample Identification						
Lab Number		0451-1	0452-1			
Total Exchange Capacity (ME/100 g)		8.93	13.77			
pH (H ₂ O 1:1)		6.2	6.2			
Organic Matter (360°C LOI) %		4.75	6.16			
Estimated Nitrogen Release lb/A		98	106			
ANIONS	SOLUBLE SULFUR* ppm	18	21			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	115	174			
		25	38			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	73	119			
		16	26			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2220	3502			
	ppm	1110	1751			
	MAGNESIUM* lb/A	332	528			
	ppm	166	264			
	POTASSIUM* lb/A	208	204			
	ppm	104	102			
	SODIUM* lb/A	90	84			
	ppm	45	42			
BASE SATURATION PERCENT						
	Calcium %	62.15	63.58			
	Magnesium %	15.49	15.98			
	Potassium %	2.99	1.90			
	Sodium %	2.19	1.33			
	Other Bases %	5.20	5.20			
	Hydrogen %	12.00	12.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.67	0.68			
	Iron* (ppm)	162	220			
	Manganese* (ppm)	47	26			
	Copper* (ppm)	2.58	3.38			
	Zinc* (ppm)	3.21	4.73			
	Aluminum* (ppm)	616	559			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name East Orange Golf Course City Milburn State NJ

Independent Consultant Soil and Water Consulting Date 7/14/2017

Sample Location <u>GREEN</u>		4	15			
Sample Identification						
Lab Number		0453-1	0454-1			
Total Exchange Capacity (ME/100 g)		2.43	10.53			
pH (H ₂ O 1:1)		6.1	6.9			
Organic Matter (360°C LOI) %		0.53	4.98			
Estimated Nitrogen Release lb/A		21	100			
ANIONS	SOLUBLE SULFUR* ppm	58	24			
	MEHLICH III lb/A P as P ₂ O ₅	302	889			
	ppm of P	66	194			
	BRAY II lb/A P as P ₂ O ₅	206	1241			
	ppm of P	45	271			
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	560	3056			
	ppm	280	1528			
	MAGNESIUM* lb/A	52	368			
	ppm	26	184			
	POTASSIUM* lb/A	200	388			
	ppm	100	194			
	SODIUM* lb/A	48	104			
	ppm	24	52			
BASE SATURATION PERCENT						
Calcium %		57.61	72.55			
Magnesium %		8.92	14.56			
Potassium %		10.55	4.72			
Sodium %		4.29	2.15			
Other Bases %		5.20	4.50			
Hydrogen %		13.50	1.50			
EXTRACTABLE MINORS						
Boron* (ppm)		0.27	0.63			
Iron* (ppm)		206	282			
Manganese* (ppm)		14	13			
Copper* (ppm)		0.98	12.17			
Zinc* (ppm)		2.40	23.20			
Aluminum* (ppm)		295	507			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable