

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Blue Heron Pines Country Club City Egg Harbor City State NJIndependent Consultant Soil and Water Consulting Date 4/26/2016

Sample Location <u>FAIRWAY</u>		7	14			
Sample Identification						
Lab Number		0304-1	0305-1			
Total Exchange Capacity (ME/100 g)		8.20	7.04			
pH (H ₂ O 1:1)		6.7	6.5			
Organic Matter (humus) %		3.01	3.64			
Estimated Nitrogen Release lb/A		80	86			
ANIONS	SOLUBLE SULFUR* ppm	26	18			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P	334	449			
		73	98			
	BRAY II lb/A P as P ₂ O ₅ ppm of P	293	440			
		64	96			
	OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2170	1790			
	ppm	1085	895			
	MAGNESIUM* lb/A	396	326			
	ppm	198	163			
	POTASSIUM* lb/A	186	154			
	ppm	93	77			
	SODIUM* lb/A	60	62			
	ppm	30	31			
BASE SATURATION PERCENT						
Calcium %		66.16	63.57			
Magnesium %		20.12	19.29			
Potassium %		2.91	2.80			
Sodium %		1.59	1.91			
Other Bases %		4.70	4.90			
Hydrogen %		4.50	7.50			
EXTRACTABLE MINORS						
Boron* (ppm)		0.73	0.52			
Iron* (ppm)		343	333			
Manganese* (ppm)		16	12			
Copper* (ppm)		2.52	2.88			
Zinc* (ppm)		6.17	11.20			
Aluminum* (ppm)		595	563			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable

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Sample Location		GREEN	7	14			
Sample Identification							
Lab Number			0306-1	0307-1			
Total Exchange Capacity (ME/100 g)			2.32	2.06			
pH (H ₂ O 1:1)			6.5	6.3			
Organic Matter (humus) %			0.72	0.80			
Estimated Nitrogen Release lb/A			29	32			
ANIONS	SOLUBLE SULFUR* ppm		9	9			
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	224	220			
			49	48			
		BRAY II lb/A P as P ₂ O ₅ ppm of P	133	160			
			29	35			
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		588	534			
			294	267			
	MAGNESIUM* lb/A ppm		104	64			
			52	32			
	POTASSIUM* lb/A ppm		42	40			
			21	20			
SODIUM* lb/A ppm		34	38				
			17	19			
BASE SATURATION PERCENT							
Calcium %		63.36	64.81				
Magnesium %		18.68	12.94				
Potassium %		2.32	2.49				
Sodium %		3.19	4.01				
Other Bases %		4.90	5.10				
Hydrogen %		7.50	10.50				
EXTRACTABLE MINORS							
Boron* (ppm)		< 0.20	0.24				
Iron* (ppm)		127	118				
Manganese* (ppm)		30	30				
Copper* (ppm)		1.34	1.39				
Zinc* (ppm)		12.50	9.02				
Aluminum* (ppm)		228	213				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

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Sample Location TEE				7	14				
Sample Identification									
Lab Number				0308-1	0309-1				
Total Exchange Capacity (ME/100 g)				5.81	3.85				
pH (H ₂ O 1:1)				6.7	7.0				
Organic Matter (humus) %				1.82	1.60				
Estimated Nitrogen Release lb/A				56	52				
ANIONS	SOLUBLE SULFUR* ppm			12	10				
	PHOSPHORUS	MEHLICH III lb/A	P as P ₂ O ₅	302	357				
				ppm of P	66	78			
		BRAY II lb/A	P as P ₂ O ₅	224	279				
				ppm of P	49	61			
	OLSEN lb/A	P as P ₂ O ₅							
			ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1716	1128				
			ppm	858	564				
	MAGNESIUM*		lb/A	194	172				
			ppm	97	86				
	POTASSIUM*		lb/A	44	40				
			ppm	22	20				
	SODIUM*		lb/A	56	44				
			ppm	28	22				
BASE SATURATION PERCENT									
	Calcium	%		73.84	73.25				
	Magnesium	%		13.91	18.61				
	Potassium	%		0.97	1.33				
	Sodium	%		2.10	2.48				
	Other Bases	%		4.70	4.40				
	Hydrogen	%		4.50	0.00				
EXTRACTABLE MINORS									
	Boron* (ppm)			0.42	0.45				
	Iron* (ppm)			268	189				
	Manganese* (ppm)			9	9				
	Copper* (ppm)			1.80	1.77				
	Zinc* (ppm)			7.67	5.45				
	Aluminum* (ppm)			368	313				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable