

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

53874-25

Name Running Deer Golf Club City Elmer State NJ

Independent Consultant Soil and Water Consulting Date 6/4/2024

Sample Location	TEE	8	17			
Sample Identification						
Lab Number		1705-1	1706-1			
Total Exchange Capacity (ME/100 g)		2.87	2.83			
pH	Buffer (SMP/Sikora)	7.4	7.4			
	H ₂ O (1:1)	6.5	6.4			
Organic Matter (360°C LOI) %		0.87	1.09			
Estimated Nitrogen Release	lb/A	35	42			
ANIONS	SOLUBLE SULFUR*					
	ppm	45	23			
	MEHLICH III lb/A P as P ₂ O ₅	394	215			
	ppm of P	86	47			
	BRAY II lb/A P as P ₂ O ₅					
EXCHANGEABLE CATIONS	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM*	lb/A	690	692		
	ppm		345	346		
	MAGNESIUM*	lb/A	104	98		
	ppm		52	49		
	POTASSIUM*	lb/A	212	176		
	ppm		106	88		
	SODIUM*	lb/A	40	32		
	ppm		20	16		
BASE SATURATION PERCENT						
	Calcium %	60.10	61.13			
	Magnesium %	15.10	14.43			
	Potassium %	9.47	7.97			
	Sodium %	3.03	2.46			
	Other Bases %	4.90	5.00			
	Hydrogen %	7.50	9.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.53	0.33			
	Iron* (ppm)	394	242			
	Manganese* (ppm)	3	5			
	Copper* (ppm)	1.51	1.04			
	Zinc* (ppm)	4.32	3.36			
	Aluminum* (ppm)	179	152			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.8	2.2			
	NH ₄ -N (ppm)	< 0.5	0.8			

* Mehlich III Extractable

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Sample Location			FAIRWAY	8	17				
Sample Identification									
Lab Number				1707-1	1708-1				
Total Exchange Capacity (ME/100 g)				5.20	7.92				
pH	Buffer (SMP/Sikora)			7.3	7.3				
	H ₂ O (1:1)			6.6	6.5				
Organic Matter (360°C LOI) %				3.31	3.92				
Estimated Nitrogen Release				lb/A	83	89			
ANIONS	SOLUBLE SULFUR*								
	PHOSPHORUS		ppm	22	27				
		MEHLICH III	lb/A	P as P ₂ O ₅	206	96			
				ppm of P	45	21			
		BRAY II	lb/A	P as P ₂ O ₅					
		ppm of P							
	OLSEN	lb/A	P as P ₂ O ₅						
			ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1352	2086				
			ppm	676	1043				
	MAGNESIUM*		lb/A	192	270				
			ppm	96	135				
	POTASSIUM*		lb/A	288	384				
			ppm	144	192				
	SODIUM*		lb/A	42	50				
			ppm	21	25				
BASE SATURATION PERCENT									
Calcium %				65.00	65.85				
Magnesium %				15.38	14.20				
Potassium %				7.10	6.22				
Sodium %				1.76	1.37				
Other Bases %				4.80	4.90				
Hydrogen %				6.00	7.50				
EXTRACTABLE MINORS									
Boron* (ppm)				0.53	0.58				
Iron* (ppm)				342	268				
Manganese* (ppm)				5	9				
Copper* (ppm)				0.99	1.18				
Zinc* (ppm)				2.77	2.04				
Aluminum* (ppm)				480	643				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								
	NO ₃ -N (ppm)			5.9	2.5				
	NH ₄ -N (ppm)			1.2	2.9				

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Sample Location	GREEN	8	17			
Sample Identification						
Lab Number		1709-1	1710-1			
Total Exchange Capacity (ME/100 g)		2.63	2.92			
pH	Buffer (SMP/Sikora)	7.4	7.4			
	H ₂ O (1:1)	6.7	6.6			
Organic Matter (360°C LOI) %		0.84	0.96			
Estimated Nitrogen Release	lb/A	34	38			
ANIONS	SOLUBLE SULFUR*					
	ppm	14	19			
	MEHLICH III lb/A P as P ₂ O ₅	247	334			
	ppm of P	54	73			
	BRAY II lb/A P as P ₂ O ₅					
EXCHANGEABLE CATIONS	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM*	lb/A	608	638		
	ppm		304	319		
	MAGNESIUM*	lb/A	156	188		
	ppm		78	94		
	POTASSIUM*	lb/A	114	118		
	ppm		57	59		
	SODIUM*	lb/A	34	36		
	ppm		17	18		
BASE SATURATION PERCENT						
	Calcium %	57.79	54.62			
	Magnesium %	24.71	26.83			
	Potassium %	5.56	5.18			
	Sodium %	2.81	2.68			
	Other Bases %	4.70	4.80			
	Hydrogen %	4.50	6.00			
EXTRACTABLE MINORS						
	Boron* (ppm)	0.25	0.34			
	Iron* (ppm)	142	196			
	Manganese* (ppm)	55	50			
	Copper* (ppm)	1.10	1.38			
	Zinc* (ppm)	4.60	5.58			
	Aluminum* (ppm)	148	167			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.4	1.1			
	NH ₄ -N (ppm)	< 0.5	< 0.5			

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