

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

74738-27

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 10/13/2023

Sample Location	TEE	11	13	15		
Sample Identification						
Lab Number		0302-1	0303-1	0304-1		
Total Exchange Capacity (ME/100 g)		9.62	8.60	5.01		
pH	Buffer (SMP/Sikora)	7.3	7.4	7.4		
	H ₂ O (1:1)	6.5	6.5	6.3		
Organic Matter (360°C LOI) %		4.08	3.58	1.51		
Estimated Nitrogen Release	lb/A	91	86	50		
ANIONS	SOLUBLE SULFUR*					
	ppm	19	16	14		
	MEHLICH III lb/A P as P ₂ O ₅	879	802	751		
	ppm of P	192	175	164		
	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	2730	2342	1286	
	ppm		1365	1171	643	
	MAGNESIUM*	lb/A	280	296	146	
	ppm		140	148	73	
	POTASSIUM*	lb/A	210	234	172	
	ppm		105	117	86	
	SODIUM*	lb/A	78	66	86	
	ppm		39	33	43	
BASE SATURATION PERCENT						
	Calcium %	70.95	68.08	64.17		
	Magnesium %	12.13	14.34	12.14		
	Potassium %	2.80	3.49	4.40		
	Sodium %	1.76	1.67	3.73		
	Other Bases %	4.90	4.90	5.10		
	Hydrogen %	7.50	7.50	10.50		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.64	0.56	0.60		
	Iron* (ppm)	454	250	454		
	Manganese* (ppm)	15	33	38		
	Copper* (ppm)	1.90	1.09	1.30		
	Zinc* (ppm)	10.78	4.79	4.68		
	Aluminum* (ppm)	474	660	249		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.8	5.0	2.9		
	NH ₄ -N (ppm)	7.0	4.3	3.4		

* Mehlich III Extractable

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Sample Location	FAIRWAY	LOWER 8	13			
Sample Identification						
Lab Number		0305-1	0307-1			
Total Exchange Capacity (ME/100 g)		8.85	6.63			
pH	Buffer (SMP/Sikora)	7.4	7.3			
	H ₂ O (1:1)	6.2	6.2			
Organic Matter (360°C LOI) %		3.90	3.06			
Estimated Nitrogen Release	lb/A	89	81			
ANIONS	SOLUBLE SULFUR*					
	ppm	60	23			
	MEHLICH III lb/A P as P ₂ O ₅	362	902			
	ppm of P	79	197			
	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	2332	1734		
	ppm		1166	867		
	MAGNESIUM*	lb/A	260	142		
	ppm		130	71		
	POTASSIUM*	lb/A	142	266		
	ppm		71	133		
	SODIUM*	lb/A	108	102		
	ppm		54	51		
BASE SATURATION PERCENT						
	Calcium %		65.88	65.38		
	Magnesium %		12.24	8.92		
	Potassium %		2.06	5.14		
	Sodium %		2.65	3.34		
	Other Bases %		5.20	5.20		
	Hydrogen %		12.00	12.00		
EXTRACTABLE MINORS						
	Boron* (ppm)		0.63	0.59		
	Iron* (ppm)		568	423		
	Manganese* (ppm)		9	12		
	Copper* (ppm)		1.71	1.59		
	Zinc* (ppm)		7.08	5.76		
	Aluminum* (ppm)		499	944		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		4.4	2.7		
	NH ₄ -N (ppm)		2.4	5.9		

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Sample Location		FAIRWAY	17				
Sample Identification							
Lab Number			0308-1				
Total Exchange Capacity (ME/100 g)			7.95				
pH	Buffer (SMP/Sikora)		7.4				
	H ₂ O (1:1)		6.6				
Organic Matter (360°C LOI) %			3.01				
Estimated Nitrogen Release		lb/A	80				
ANIONS	SOLUBLE SULFUR*						
	PHOSPHORUS	ppm	14				
		MEHLICH III	lb/A P as P ₂ O ₅	724			
			ppm of P	158			
		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	2292			
		ppm	1146				
	MAGNESIUM*		lb/A	214			
		ppm	107				
	POTASSIUM*		lb/A	248			
		ppm	124				
	SODIUM*		lb/A	68			
		ppm	34				
BASE SATURATION PERCENT							
	Calcium	%	72.08				
	Magnesium	%	11.22				
	Potassium	%	4.00				
	Sodium	%	1.86				
	Other Bases	%	4.80				
	Hydrogen	%	6.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.68				
	Iron* (ppm)		397				
	Manganese* (ppm)		9				
	Copper* (ppm)		0.80				
	Zinc* (ppm)		4.82				
	Aluminum* (ppm)		350				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		11.4				
	NH ₄ -N (ppm)		5.2				

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Sample Location	GREEN	11	13	15		
Sample Identification						
Lab Number		0309-1	0310-1	0311-1		
Total Exchange Capacity (ME/100 g)		11.25	7.37	7.81		
pH	Buffer (SMP/Sikora)	7.4	7.4	7.4		
	H ₂ O (1:1)	6.5	6.6	6.6		
Organic Matter (360°C LOI) %		3.61	2.75	2.37		
Estimated Nitrogen Release	lb/A	86	75	67		
ANIONS	SOLUBLE SULFUR*					
	ppm	16	11	12		
	MEHLICH III lb/A P as P ₂ O ₅	1612	1209	1205		
	ppm of P	352	264	263		
	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	3324	2194	2334	
	ppm		1662	1097	1167	
	MAGNESIUM*	lb/A	230	146	170	
	ppm		115	73	85	
	POTASSIUM*	lb/A	316	256	216	
	ppm		158	128	108	
	SODIUM*	lb/A	82	70	68	
	ppm		41	35	34	
BASE SATURATION PERCENT						
	Calcium %	73.87	74.42	74.71		
	Magnesium %	8.52	8.25	9.07		
	Potassium %	3.60	4.45	3.55		
	Sodium %	1.58	2.06	1.89		
	Other Bases %	4.90	4.80	4.80		
	Hydrogen %	7.50	6.00	6.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.78	0.52	0.64		
	Iron* (ppm)	461	390	389		
	Manganese* (ppm)	19	26	18		
	Copper* (ppm)	2.37	1.87	1.97		
	Zinc* (ppm)	18.07	16.24	33.46		
	Aluminum* (ppm)	494	348	317		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.9	3.2	3.4		
	NH ₄ -N (ppm)	< 0.5	1.0	0.5		

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Sample Location	ROUGH	11	13	15		
Sample Identification						
Lab Number		0312-1	0313-1	0314-1		
Total Exchange Capacity (ME/100 g)		5.91	8.13	5.98		
pH	Buffer (SMP/Sikora)	7.0	7.1	7.1		
	H ₂ O (1:1)	5.4	5.8	5.6		
Organic Matter (360°C LOI) %		4.77	5.07	3.53		
Estimated Nitrogen Release	lb/A	98	100	85		
ANIONS	SOLUBLE SULFUR*					
	ppm	23	21	16		
	MEHLICH III lb/A P as P ₂ O ₅	234	197	307		
	ppm of P	51	43	67		
	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	1072	1832	1186	
	ppm		536	916	593	
	MAGNESIUM*	lb/A	140	236	168	
	ppm		70	118	84	
	POTASSIUM*	lb/A	106	152	162	
	ppm		53	76	81	
	SODIUM*	lb/A	78	90	56	
	ppm		39	45	28	
BASE SATURATION PERCENT						
	Calcium %	45.35	56.33	49.58		
	Magnesium %	9.87	12.10	11.71		
	Potassium %	2.30	2.40	3.47		
	Sodium %	2.87	2.41	2.04		
	Other Bases %	6.60	5.80	6.20		
	Hydrogen %	33.00	21.00	27.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.59	0.72	0.43		
	Iron* (ppm)	328	486	288		
	Manganese* (ppm)	6	5	4		
	Copper* (ppm)	1.10	1.10	0.87		
	Zinc* (ppm)	3.31	6.33	3.28		
	Aluminum* (ppm)	904	682	754		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.6	5.3	11.6		
	NH ₄ -N (ppm)	9.0	5.4	12.7		

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