

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

74738-25

Name Jumping Brook Country Club City Neptune State NJ

Independent Consultant Soil and Water Consulting Date 10/6/2022

Sample Location	TEE	2	9	12		
Sample Identification						
Lab Number		0128-1	0129-1	0130-1		
Total Exchange Capacity (ME/100 g)		9.98	9.57	7.52		
pH	Buffer (SMP/Sikora)	7.5	7.3	7.5		
	H ₂ O (1:1)	6.8	6.5	6.8		
Organic Matter (360°C LOI) %		2.79	3.61	2.36		
Estimated Nitrogen Release	lb/A	76	86	67		
ANIONS	SOLUBLE SULFUR*					
	ppm	37	23	16		
	MEHLICH III lb/A P as P ₂ O ₅	687	1443	1576		
	ppm of P	150	315	344		
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	2822	2582	2164		
	ppm	1411	1291	1082		
	MAGNESIUM* lb/A	330	316	256		
BASE SATURATION PERCENT	ppm	165	158	128		
	POTASSIUM* lb/A	390	344	228		
	ppm	195	172	114		
	SODIUM* lb/A	132	80	82		
	ppm	66	40	41		
BASE SATURATION PERCENT						
	Calcium %	70.69	67.45	71.94		
	Magnesium %	13.78	13.76	14.18		
	Potassium %	5.01	4.61	3.89		
	Sodium %	2.88	1.82	2.37		
	Other Bases %	4.60	4.90	4.60		
	Hydrogen %	3.00	7.50	3.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.61	0.59	0.55		
	Iron* (ppm)	503	373	511		
	Manganese* (ppm)	20	21	17		
	Copper* (ppm)	3.39	2.26	3.22		
	Zinc* (ppm)	6.13	8.85	12.65		
	Aluminum* (ppm)	509	576	386		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.9	5.6	8.2		
	NH ₄ -N (ppm)	4.2	4.0	7.0		

* Mehlich III Extractable

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Sample Location	FAIRWAY	2	9	12		
Sample Identification						
Lab Number		0131-1	0132-1	0133-1		
Total Exchange Capacity (ME/100 g)		10.09	10.78	8.27		
pH	Buffer (SMP/Sikora)	7.1	6.9	7.3		
	H ₂ O (1:1)	6.0	5.9	6.3		
Organic Matter (360°C LOI) %		4.47	5.12	3.68		
Estimated Nitrogen Release	lb/A	95	101	87		
ANIONS	SOLUBLE SULFUR*					
	ppm	33	32	29		
	MEHLICH III lb/A P as P ₂ O ₅	595	701	889		
	ppm of P	130	153	194		
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	2552	2656	2148		
	ppm	1276	1328	1074		
	MAGNESIUM* lb/A	234	252	216		
BASE SATURATION PERCENT	ppm	117	126	108		
	POTASSIUM* lb/A	336	282	394		
	ppm	168	141	197		
	SODIUM* lb/A	112	84	96		
	ppm	56	42	48		
BASE SATURATION PERCENT						
	Calcium %	63.23	61.60	64.93		
	Magnesium %	9.66	9.74	10.88		
	Potassium %	4.27	3.35	6.11		
	Sodium %	2.41	1.69	2.52		
	Other Bases %	5.40	5.60	5.10		
	Hydrogen %	15.00	18.00	10.50		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.53	0.43	0.43		
	Iron* (ppm)	427	488	348		
	Manganese* (ppm)	5	3	6		
	Copper* (ppm)	1.06	1.11	1.28		
	Zinc* (ppm)	3.89	7.41	3.23		
	Aluminum* (ppm)	534	526	813		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	12.2	9.0	6.8		
	NH ₄ -N (ppm)	8.5	9.1	5.8		

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Sample Location	GREEN	2	9	12		
Sample Identification						
Lab Number		0134-1	0135-1	0136-1		
Total Exchange Capacity (ME/100 g)		13.53	9.99	10.61		
pH	Buffer (SMP/Sikora)	7.3	7.4	7.3		
	H ₂ O (1:1)	6.7	6.6	6.3		
Organic Matter (360°C LOI) %		4.08	3.18	3.48		
Estimated Nitrogen Release	lb/A	91	82	85		
ANIONS	SOLUBLE SULFUR*					
	ppm	43	34	28		
	MEHLICH III lb/A P as P ₂ O ₅	1576	1365	1566		
	ppm of P	344	298	342		
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	3978	2896	2950		
	ppm	1989	1448	1475		
	MAGNESIUM* lb/A	392	262	242		
BASE SATURATION PERCENT	ppm	196	131	121		
	POTASSIUM* lb/A	372	312	296		
	ppm	186	156	148		
	SODIUM* lb/A	106	84	88		
	ppm	53	42	44		
BASE SATURATION PERCENT						
	Calcium %	73.50	72.47	69.51		
	Magnesium %	12.07	10.93	9.50		
	Potassium %	3.52	4.00	3.58		
	Sodium %	1.70	1.83	1.80		
	Other Bases %	4.70	4.80	5.10		
	Hydrogen %	4.50	6.00	10.50		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.71	0.61	0.47		
	Iron* (ppm)	401	410	405		
	Manganese* (ppm)	12	17	16		
	Copper* (ppm)	2.75	1.96	2.15		
	Zinc* (ppm)	36.22	18.06	48.45		
	Aluminum* (ppm)	479	455	486		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	5.0	3.3	3.5		
	NH ₄ -N (ppm)	2.3	1.4	2.2		

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Sample Location	ROUGH	7	9	12		
Sample Identification						
Lab Number		0137-1	0138-1	0139-1		
Total Exchange Capacity (ME/100 g)		14.90	10.27	5.89		
pH	Buffer (SMP/Sikora)	6.6	6.8	7.1		
	H ₂ O (1:1)	5.0	5.2	5.6		
Organic Matter (360°C LOI) %		6.04	3.85	3.58		
Estimated Nitrogen Release	lb/A	105	88	86		
ANIONS	SOLUBLE SULFUR*					
	ppm	32	43	16		
	MEHLICH III lb/A P as P ₂ O ₅	325	673	458		
	ppm of P	71	147	100		
	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	2236	1702	1126	
	ppm		1118	851	563	
	MAGNESIUM*	lb/A	230	184	178	
	ppm		115	92	89	
	POTASSIUM*	lb/A	204	236	176	
	ppm		102	118	88	
	SODIUM*	lb/A	130	102	70	
	ppm		65	51	35	
BASE SATURATION PERCENT						
Calcium	%	37.52	41.43	47.79		
Magnesium	%	6.43	7.47	12.59		
Potassium	%	1.76	2.95	3.83		
Sodium	%	1.90	2.16	2.58		
Other Bases	%	7.40	7.00	6.20		
Hydrogen	%	45.00	39.00	27.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.28	0.37	0.38		
	Iron* (ppm)	449	485	386		
	Manganese* (ppm)	4	5	4		
	Copper* (ppm)	1.06	1.45	0.83		
	Zinc* (ppm)	6.02	4.79	3.53		
	Aluminum* (ppm)	565	439	470		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.4	2.0	7.5		
	NH ₄ -N (ppm)	13.2	4.8	15.4		

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