

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73847-35

Name East Orange Golf Course City Milburn State NJ

Independent Consultant Soil and Water Consulting Date 10/17/2023

Sample Location	TEE	4	7	12		
Sample Identification						
Lab Number		0350-1	0351-1	0352-1		
Total Exchange Capacity (ME/100 g)		3.17	9.60	11.67		
pH	Buffer (SMP/Sikora)	7.6	7.4	7.3		
	H ₂ O (1:1)	7.0	6.9	6.3		
Organic Matter (360°C LOI) %		1.12	3.39	4.50		
Estimated Nitrogen Release	lb/A	42	84	95		
ANIONS	SOLUBLE SULFUR*					
	ppm	8	15	18		
	MEHLICH III lb/A P as P ₂ O ₅	550	1466	1090		
	ppm of P	120	320	238		
	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	922	2880	3062		
	ppm	461	1440	1531		
	MAGNESIUM* lb/A	104	240	332		
	ppm	52	120	166		
	POTASSIUM* lb/A	156	550	530		
	ppm	78	275	265		
	SODIUM* lb/A	42	56	60		
	ppm	21	28	30		
BASE SATURATION PERCENT						
	Calcium %	72.71	75.00	65.60		
	Magnesium %	13.67	10.42	11.85		
	Potassium %	6.31	7.35	5.82		
	Sodium %	2.88	1.27	1.12		
	Other Bases %	4.40	4.50	5.10		
	Hydrogen %	0.00	1.50	10.50		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.27	0.84	0.71		
	Iron* (ppm)	178	371	322		
	Manganese* (ppm)	15	25	11		
	Copper* (ppm)	1.03	4.45	4.76		
	Zinc* (ppm)	4.58	14.58	8.00		
	Aluminum* (ppm)	291	478	679		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	5.5	11.3	8.6		
	NH ₄ -N (ppm)	1.3	5.5	2.5		

* Mehlich III Extractable

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Sample Location	FAIRWAY	4	7	12		
Sample Identification						
Lab Number		0353-1	0354-1	0355-1		
Total Exchange Capacity (ME/100 g)		11.54	10.99	10.45		
pH	Buffer (SMP/Sikora)	7.3	7.2	7.2		
	H ₂ O (1:1)	6.3	6.1	6.1		
Organic Matter (360°C LOI) %		5.59	4.95	4.22		
Estimated Nitrogen Release	lb/A	103	100	92		
ANIONS	SOLUBLE SULFUR*					
	ppm	16	19	17		
	MEHLICH III lb/A P as P ₂ O ₅	119	206	321		
	ppm of P	26	45	70		
	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	2994	2780	2606	
	ppm		1497	1390	1303	
	MAGNESIUM*	lb/A	426	378	362	
	ppm		213	189	181	
	POTASSIUM*	lb/A	226	188	234	
	ppm		113	94	117	
	SODIUM*	lb/A	88	78	78	
	ppm		44	39	39	
BASE SATURATION PERCENT						
	Calcium %		64.86	63.24	62.34	
	Magnesium %		15.38	14.33	14.43	
	Potassium %		2.51	2.19	2.87	
	Sodium %		1.66	1.54	1.62	
	Other Bases %		5.10	5.20	5.20	
	Hydrogen %		10.50	13.50	13.50	
EXTRACTABLE MINORS						
	Boron* (ppm)		0.81	0.63	0.57	
	Iron* (ppm)		175	222	161	
	Manganese* (ppm)		52	25	52	
	Copper* (ppm)		3.20	3.82	2.82	
	Zinc* (ppm)		3.58	2.91	2.82	
	Aluminum* (ppm)		607	705	738	
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		11.5	7.9	7.6	
	NH ₄ -N (ppm)		4.5	2.9	4.8	

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Sample Location	GREEN	4	7	12		
Sample Identification						
Lab Number		0356-1	0358-1	0359-1		
Total Exchange Capacity (ME/100 g)		2.19	9.44	7.36		
pH	Buffer (SMP/Sikora)	7.5	7.4	7.4		
	H ₂ O (1:1)	7.0	6.8	7.0		
Organic Matter (360°C LOI) %		0.63	3.51	3.24		
Estimated Nitrogen Release	lb/A	25	85	82		
ANIONS	SOLUBLE SULFUR*					
	ppm	7	17	18		
	MEHLICH III lb/A P as P ₂ O ₅	476	1154	1172		
	ppm of P	104	252	256		
	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	608	2790	2256	
	ppm		304	1395	1128	
	MAGNESIUM*	lb/A	88	296	246	
	ppm		44	148	123	
	POTASSIUM*	lb/A	82	280	176	
	ppm		41	140	88	
	SODIUM*	lb/A	46	70	66	
	ppm		23	35	33	
BASE SATURATION PERCENT						
	Calcium %	69.41	73.89	76.63		
	Magnesium %	16.74	13.06	13.93		
	Potassium %	4.80	3.80	3.07		
	Sodium %	4.57	1.61	1.95		
	Other Bases %	4.40	4.60	4.40		
	Hydrogen %	0.00	3.00	0.00		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.22	0.71	0.60		
	Iron* (ppm)	205	368	386		
	Manganese* (ppm)	15	17	16		
	Copper* (ppm)	0.68	9.03	7.55		
	Zinc* (ppm)	4.19	22.19	25.56		
	Aluminum* (ppm)	272	370	384		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.0	5.3	4.0		
	NH ₄ -N (ppm)	< 0.5	1.9	1.1		

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