

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-44

Name Canyon Gate Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 4/1/2021

Sample Location	TEE	9	18			
Sample Identification						
Lab Number		0078-1	0079-1			
Total Exchange Capacity (ME/100 g)		17.89	17.19			
pH (H ₂ O 1:1)		a 8.2	a 7.6			
Organic Matter (360°C LOI) %		3.64	5.99			
Estimated Nitrogen Release	lb/A	86	105			
ANIONS	SOLUBLE SULFUR*	ppm	75	77		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	133 29	192 42		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4582 2291	4408 2204		
	MAGNESIUM*	lb/A ppm	978 489	966 483		
	POTASSIUM*	lb/A ppm	912 456	776 388		
	SODIUM*	lb/A ppm	284 142	228 114		
BASE SATURATION PERCENT						
	Calcium	%	64.03	64.11		
	Magnesium	%	22.78	23.41		
	Potassium	%	6.54	5.79		
	Sodium	%	3.45	2.88		
	Other Bases	%	3.20	3.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.29	1.26		
	Iron** (ppm)		99	88		
	Manganese** (ppm)		19	20		
	Copper** (ppm)		1.40	1.33		
	Zinc** (ppm)		29.04	21.62		
	Aluminum** (ppm)		51	59		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.3	29.7		
	NH ₄ -N (ppm)		5.4	6.1		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	9	18			
Sample Identification						
Lab Number		0080-1	0081-1			
Total Exchange Capacity (ME/100 g)		18.74	19.82			
pH (H ₂ O 1:1)		a 7.8	a 7.8			
Organic Matter (360°C LOI) %		6.54	5.97			
Estimated Nitrogen Release lb/A		108	105			
ANIONS	SOLUBLE SULFUR*	ppm	114	99		
	PHOSPHORUS					
	MEHLICH III lb/A P as P ₂ O ₅ ppm of P					
	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	522	298			
		114	65			
	CALCIUM*	lb/A	5148	5464		
		ppm	2574	2732		
	MAGNESIUM*	lb/A	970	1066		
		ppm	485	533		
	POTASSIUM*	lb/A	544	426		
		ppm	272	213		
	SODIUM*	lb/A	210	210		
		ppm	105	105		
BASE SATURATION PERCENT						
	Calcium %	68.68	68.92			
	Magnesium %	21.57	22.41			
	Potassium %	3.72	2.76			
	Sodium %	2.44	2.30			
	Other Bases %	3.60	3.60			
	Hydrogen %	0.00	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)	2.08	1.77			
	Iron** (ppm)	86	105			
	Manganese** (ppm)	14	14			
	Copper** (ppm)	1.46	1.81			
	Zinc** (ppm)	39.03	45.87			
	Aluminum** (ppm)	24	35			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	22.6	12.1			
	NH ₄ -N (ppm)	8.6	4.5			

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Sample Location	GREEN	9	18			
Sample Identification						
Lab Number		0082-1	0083-1			
Total Exchange Capacity (ME/100 g)		4.55	5.19			
pH (H ₂ O 1:1)		a 8.3	a 8.7			
Organic Matter (360°C LOI) %		0.61	0.30			
Estimated Nitrogen Release lb/A		24	12			
ANIONS	SOLUBLE SULFUR*	ppm	29	24		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P				
	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	23 5	23 5		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1406	1690		
		ppm	703	845		
	MAGNESIUM*	lb/A	142	134		
		ppm	71	67		
	POTASSIUM*	lb/A	126	110		
		ppm	63	55		
	SODIUM*	lb/A	66	56		
		ppm	33	28		
BASE SATURATION PERCENT						
	Calcium	%	77.25	81.41		
	Magnesium	%	13.00	10.76		
	Potassium	%	3.55	2.72		
	Sodium	%	3.15	2.35		
	Other Bases	%	3.10	2.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		< 0.20	0.22		
	Iron** (ppm)		46	40		
	Manganese** (ppm)		22	15		
	Copper** (ppm)		0.81	0.66		
	Zinc** (ppm)		3.52	1.57		
	Aluminum** (ppm)		57	38		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	< 0.5		
	NH ₄ -N (ppm)		0.7	0.6		

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