

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-46

 Name Canyon Gate Country Club City Las Vegas State NV

 Independent Consultant Soil and Water Consulting Date 3/28/2022

Sample Location	TEE	5	14			
Sample Identification						
Lab Number		0038-1	0039-1			
Total Exchange Capacity (ME/100 g)		15.64	14.58			
pH (H ₂ O 1:1)		7.2	^a 7.7			
Organic Matter (360°C LOI) %		4.08	3.66			
Estimated Nitrogen Release	lb/A	91	87			
ANIONS	SOLUBLE SULFUR*	ppm	83	59		
	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	160 35	32 7		
	CALCIUM*	lb/A ppm	4062 2031	4550 2275		
	MAGNESIUM*	lb/A ppm	814 407	486 243		
	POTASSIUM*	lb/A ppm	704 352	222 111		
	SODIUM*	lb/A ppm	244 122	162 81		
BASE SATURATION PERCENT						
	Calcium	%	64.93	78.02		
	Magnesium	%	21.69	13.89		
	Potassium	%	5.77	1.95		
	Sodium	%	3.39	2.42		
	Other Bases	%	4.20	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.82	0.74		
	Iron** (ppm)		147	60		
	Manganese** (ppm)		19	9		
	Copper** (ppm)		1.21	0.83		
	Zinc** (ppm)		21.86	8.30		
	Aluminum** (ppm)		63	4		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		44.3	46.3		
	NH ₄ -N (ppm)		3.3	0.9		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location	FAIRWAY	5	14			
Sample Identification						
Lab Number		0040-1	0041-1			
Total Exchange Capacity (ME/100 g)		20.18	16.15			
pH (H ₂ O 1:1)		a 7.5	a 7.5			
Organic Matter (360°C LOI) %		8.38	6.78			
Estimated Nitrogen Release lb/A		117	109			
ANIONS	SOLUBLE SULFUR*	ppm	128	83		
	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	334 73	192 42		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5522 2761	4486 2243		
	MAGNESIUM*	lb/A ppm	992 496	784 392		
	POTASSIUM*	lb/A ppm	640 320	462 231		
	SODIUM*	lb/A ppm	290 145	206 103		
BASE SATURATION PERCENT						
	Calcium	%	68.41	69.44		
	Magnesium	%	20.48	20.23		
	Potassium	%	4.07	3.67		
	Sodium	%	3.12	2.77		
	Other Bases	%	3.90	3.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.61	1.50		
	Iron** (ppm)		88	113		
	Manganese** (ppm)		11	21		
	Copper** (ppm)		1.31	1.21		
	Zinc** (ppm)		27.04	24.91		
	Aluminum** (ppm)		23	62		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		38.5	34.2		
	NH ₄ -N (ppm)		6.7	1.0		

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Sample Location	GREEN	5	14			
Sample Identification						
Lab Number		0042-1	0043-1			
Total Exchange Capacity (ME/100 g)		5.33	5.47			
pH (H ₂ O 1:1)		a 8.6	a 8.4			
Organic Matter (360°C LOI) %		0.60	0.75			
Estimated Nitrogen Release lb/A		24	30			
ANIONS	SOLUBLE SULFUR*	ppm	33	33		
	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	14 3	32 7		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1680	1714		
		ppm	840	857		
	MAGNESIUM*	lb/A	164	164		
		ppm	82	82		
	POTASSIUM*	lb/A	122	138		
		ppm	61	69		
	SODIUM*	lb/A	66	72		
		ppm	33	36		
BASE SATURATION PERCENT						
	Calcium	%	78.80	78.34		
	Magnesium	%	12.82	12.49		
	Potassium	%	2.93	3.23		
	Sodium	%	2.69	2.86		
	Other Bases	%	2.80	3.00		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.39	0.39		
	Iron** (ppm)		37	39		
	Manganese** (ppm)		23	24		
	Copper** (ppm)		0.44	0.65		
	Zinc** (ppm)		2.49	2.61		
	Aluminum** (ppm)		43	46		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		< 0.5	< 0.5		
	NH ₄ -N (ppm)		1.3	0.8		

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