

BROOKSIDE LABORATORIES, INC. 46715-45

SOIL AUDIT AND INVENTORY REPORT

Name Canyon Gate Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 9/29/2021

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0040-1	0041-1			
Total Exchange Capacity (ME/100 g)		14.87	17.36			
pH (H ₂ O 1:1)	a	7.7	6.6			
Organic Matter (360°C LOI) %		3.39	4.22			
Estimated Nitrogen Release lb/A		84	92			
ANIONS	SOLUBLE SULFUR*	ppm	39	34		
	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	105 23	124 27		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4064 2032	4768 2384		
	MAGNESIUM*	lb/A ppm	658 329	688 344		
	POTASSIUM*	lb/A ppm	772 386	382 191		
	SODIUM*	lb/A ppm	196 98	94 47		
BASE SATURATION PERCENT						
	Calcium %		68.33	68.66		
	Magnesium %		18.44	16.51		
	Potassium %		6.66	2.82		
	Sodium %		2.87	1.18		
	Other Bases %		3.70	4.80		
	Hydrogen %		0.00	6.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.90	1.42		
	Iron** (ppm)		115	130		
	Manganese** (ppm)		25	17		
	Copper** (ppm)		1.43	1.39		
	Zinc** (ppm)		25.47	20.40		
	Aluminum** (ppm)		49	47		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		7.3	11.9		
	NH ₄ -N (ppm)		1.4	1.3		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>		2	11			
Sample Identification						
Lab Number		0042-1	0043-1			
Total Exchange Capacity (ME/100 g)		21.00	18.37			
pH (H ₂ O 1:1)		^a 7.7	7.1			
Organic Matter (360°C LOI) %		6.89	5.39			
Estimated Nitrogen Release lb/A		109	102			
ANIONS	SOLUBLE SULFUR* ppm	59	102			
	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	357 78	321 70			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	6134	5266			
	ppm	3067	2633			
	MAGNESIUM* lb/A	950	854			
	ppm	475	427			
	POTASSIUM* lb/A	498	364			
	ppm	249	182			
	SODIUM* lb/A	132	180			
	ppm	66	90			
BASE SATURATION PERCENT						
Calcium %		73.02	71.67			
Magnesium %		18.85	19.37			
Potassium %		3.04	2.54			
Sodium %		1.37	2.13			
Other Bases %		3.70	4.30			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		2.24	2.60			
Iron** (ppm)		134	102			
Manganese** (ppm)		17	14			
Copper** (ppm)		1.29	1.22			
Zinc** (ppm)		28.44	31.25			
Aluminum** (ppm)		44	12			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	33.5	25.5			
	NH ₄ -N (ppm)	1.6	1.3			

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Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		0044-1	0045-1			
Total Exchange Capacity (ME/100 g)		4.87	5.93			
pH (H ₂ O 1:1)	a	8.4	7.3			
Organic Matter (360°C LOI) %		0.31	0.55			
Estimated Nitrogen Release lb/A		12	22			
ANIONS	SOLUBLE SULFUR*	ppm	41	48		
	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	18 4	50 11		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1454 727	1852 926		
	MAGNESIUM*	lb/A ppm	196 98	196 98		
	POTASSIUM*	lb/A ppm	154 77	134 67		
	SODIUM*	lb/A ppm	36 18	30 15		
BASE SATURATION PERCENT						
	Calcium	%	74.64	78.08		
	Magnesium	%	16.77	13.77		
	Potassium	%	4.05	2.90		
	Sodium	%	1.61	1.10		
	Other Bases	%	3.00	4.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.23	1.51		
	Iron** (ppm)		39	36		
	Manganese** (ppm)		18	17		
	Copper** (ppm)		0.71	0.55		
	Zinc** (ppm)		2.84	2.20		
	Aluminum** (ppm)		42	37		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		1.8	0.8		
	NH ₄ -N (ppm)		0.7	0.6		

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