

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-47

 Name Canyon Gate Country Club City Las Vegas State NV

 Independent Consultant Soil and Water Consulting Date 9/20/2022

Sample Location	TEE	7	16			
Sample Identification						
Lab Number		0510-1	0511-1			
Total Exchange Capacity (ME/100 g)		17.45	17.29			
pH (H ₂ O 1:1)		a 7.8	a 7.9			
Organic Matter (360°C LOI) %		4.05	3.99			
Estimated Nitrogen Release	lb/A	90	90			
ANIONS	SOLUBLE SULFUR*	ppm	62	201		
	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	137 30	188 41		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5212 2606	4816 2408		
	MAGNESIUM*	lb/A ppm	732 366	850 425		
	POTASSIUM*	lb/A ppm	350 175	508 254		
	SODIUM*	lb/A ppm	136 68	206 103		
BASE SATURATION PERCENT						
	Calcium	%	74.67	69.64		
	Magnesium	%	17.48	20.48		
	Potassium	%	2.57	3.77		
	Sodium	%	1.69	2.59		
	Other Bases	%	3.60	3.50		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.10	1.58		
	Iron** (ppm)		146	192		
	Manganese** (ppm)		14	22		
	Copper** (ppm)		1.53	2.15		
	Zinc** (ppm)		17.95	30.68		
	Aluminum** (ppm)		6	74		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		18.8	29.3		
	NH ₄ -N (ppm)		5.7	3.6		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-47

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 9/20/2022

Sample Location	FAIRWAY	7	16			
Sample Identification						
Lab Number		0512-1	0513-1			
Total Exchange Capacity (ME/100 g)		17.51	18.47			
pH (H ₂ O 1:1)		a 7.6	a 7.8			
Organic Matter (360°C LOI) %		5.11	5.18			
Estimated Nitrogen Release lb/A		101	101			
ANIONS	SOLUBLE SULFUR*	ppm	57	138		
	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	174 38	202 44		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5200 2600	5360 2680		
	MAGNESIUM*	lb/A ppm	740 370	820 410		
	POTASSIUM*	lb/A ppm	408 204	524 262		
	SODIUM*	lb/A ppm	110 55	146 73		
BASE SATURATION PERCENT						
	Calcium	%	74.24	72.55		
	Magnesium	%	17.61	18.50		
	Potassium	%	2.99	3.64		
	Sodium	%	1.37	1.72		
	Other Bases	%	3.80	3.60		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.82	1.87		
	Iron** (ppm)		133	114		
	Manganese** (ppm)		18	19		
	Copper** (ppm)		1.35	1.07		
	Zinc** (ppm)		32.99	28.57		
	Aluminum** (ppm)		26	27		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		23.4	42.4		
	NH ₄ -N (ppm)		3.6	5.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

46715-47

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 9/20/2022

Sample Location	GREEN	1	7	16	PG	
Sample Identification						
Lab Number		0514-1	0515-1	0516-1	0517-1	
Total Exchange Capacity (ME/100 g)		6.25	7.31	6.43	6.62	
pH (H ₂ O 1:1)		a 8.2	a 8.4	a 8.5	a 8.6	
Organic Matter (360°C LOI) %		0.52	0.70	0.44	0.47	
Estimated Nitrogen Release lb/A		21	28	18	19	
ANIONS	SOLUBLE SULFUR*	ppm	31	32	27	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	37 8	50 11	27 6	18 4
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	1914	2260	1974	2072
		ppm	957	1130	987	1036
	MAGNESIUM*	lb/A	228	264	230	228
		ppm	114	132	115	114
	POTASSIUM*	lb/A	160	182	182	154
		ppm	80	91	91	77
	SODIUM*	lb/A	50	50	52	48
		ppm	25	25	26	24
BASE SATURATION PERCENT						
	Calcium	%	76.56	77.29	76.75	78.25
	Magnesium	%	15.20	15.05	14.90	14.35
	Potassium	%	3.28	3.19	3.63	2.98
	Sodium	%	1.74	1.49	1.76	1.58
	Other Bases	%	3.20	3.00	2.90	2.80
	Hydrogen	%	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
	Boron** (ppm)		0.52	0.75	0.52	0.57
	Iron** (ppm)		71	75	54	68
	Manganese** (ppm)		51	43	27	50
	Copper** (ppm)		0.87	1.11	0.51	1.28
	Zinc** (ppm)		4.21	5.64	2.20	4.78
	Aluminum** (ppm)		55	58	50	48
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		6.3	3.1	4.3	4.6
	NH ₄ -N (ppm)		3.8	2.7	2.8	9.6

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable