

BROOKSIDE LABORATORIES, INC. 51324-58

SOIL AUDIT AND INVENTORY REPORT

Name Las Vegas Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 9/30/2021

Sample Location	TEE	2	11			
Sample Identification						
Lab Number		0266-1	0267-1			
Total Exchange Capacity (ME/100 g)		19.94	19.85			
pH (H ₂ O 1:1)		a 8.2	a 8.5			
Organic Matter (360°C LOI) %		1.86	2.46			
Estimated Nitrogen Release lb/A		57	69			
ANIONS	SOLUBLE SULFUR*	ppm	518	331		
	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	78 17	78 17		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5960 2980	5328 2664		
	MAGNESIUM*	lb/A ppm	740 370	1108 554		
	POTASSIUM*	lb/A ppm	718 359	732 366		
	SODIUM*	lb/A ppm	182 91	184 92		
BASE SATURATION PERCENT						
	Calcium %		74.72	67.10		
	Magnesium %		15.46	23.26		
	Potassium %		4.62	4.73		
	Sodium %		1.98	2.02		
	Other Bases %		3.20	2.90		
	Hydrogen %		0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.15	2.27		
	Iron** (ppm)		67	110		
	Manganese** (ppm)		22	19		
	Copper** (ppm)		1.92	4.60		
	Zinc** (ppm)		5.96	13.63		
	Aluminum** (ppm)		8	67		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		18.1	28.7		
	NH ₄ -N (ppm)		192.9	205.2		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	2	11			
Sample Identification						
Lab Number		0268-1	0269-1			
Total Exchange Capacity (ME/100 g)		49.05	87.24			
pH (H ₂ O 1:1)		a 8.1	a 7.9			
Organic Matter (360°C LOI) %		5.23	4.60			
Estimated Nitrogen Release lb/A		101	96			
ANIONS	SOLUBLE SULFUR*	ppm	4052	9726		
	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	119 26	92 20		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	15596 7798	31872 15936		
	MAGNESIUM*	lb/A ppm	1620 810	888 444		
	POTASSIUM*	lb/A ppm	782 391	390 195		
	SODIUM*	lb/A ppm	318 159	142 71		
BASE SATURATION PERCENT						
	Calcium %		79.49	91.33		
	Magnesium %		13.76	4.24		
	Potassium %		2.04	0.57		
	Sodium %		1.41	0.35		
	Other Bases %		3.30	3.50		
	Hydrogen %		0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		2.19	1.50		
	Iron** (ppm)		47	84		
	Manganese** (ppm)		24	13		
	Copper** (ppm)		3.68	3.70		
	Zinc** (ppm)		21.84	30.01		
	Aluminum** (ppm)		14	13		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		62.7	34.5		
	NH ₄ -N (ppm)		50.6	2.8		

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Sample Location	GREEN	2	11			
Sample Identification						
Lab Number		0270-1	0271-1			
Total Exchange Capacity (ME/100 g)		12.38	10.70			
pH (H ₂ O 1:1)		a 8.3	a 8.3			
Organic Matter (360°C LOI) %		1.48	0.90			
Estimated Nitrogen Release lb/A		50	36			
ANIONS	SOLUBLE SULFUR*	ppm	314	303		
	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	435 95	476 104		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3702 1851	3280 1640		
	MAGNESIUM*	lb/A ppm	484 242	392 196		
	POTASSIUM*	lb/A ppm	412 206	278 139		
	SODIUM*	lb/A ppm	92 46	80 40		
BASE SATURATION PERCENT						
	Calcium	%	74.76	76.64		
	Magnesium	%	16.29	15.26		
	Potassium	%	4.27	3.33		
	Sodium	%	1.62	1.63		
	Other Bases	%	3.10	3.10		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		1.03	0.77		
	Iron** (ppm)		99	59		
	Manganese** (ppm)		70	40		
	Copper** (ppm)		2.24	2.23		
	Zinc** (ppm)		13.23	12.01		
	Aluminum** (ppm)		8	2		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		12.2	6.1		
	NH ₄ -N (ppm)		54.4	53.2		

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