

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73668-58

Name The Summit City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 9/22/2022

Sample Location	TEE	7	16			
Sample Identification						
Lab Number		0210-1	0211-1			
Total Exchange Capacity (ME/100 g)		9.03	9.42			
pH (H ₂ O 1:1)		a 7.6	a 7.9			
Organic Matter (360°C LOI) %		1.11	1.11			
Estimated Nitrogen Release lb/A		42	42			
ANIONS	SOLUBLE SULFUR*	ppm	28	17		
	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	92 20		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2820 1410	2998 1499		
	MAGNESIUM*	lb/A ppm	268 134	286 143		
	POTASSIUM*	lb/A ppm	204 102	148 74		
	SODIUM*	lb/A ppm	120 60	100 50		
BASE SATURATION PERCENT						
	Calcium	%	78.07	79.56		
	Magnesium	%	12.37	12.65		
	Potassium	%	2.90	2.01		
	Sodium	%	2.89	2.31		
	Other Bases	%	3.80	3.50		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.58	0.57		
	Iron** (ppm)		112	80		
	Manganese** (ppm)		21	15		
	Copper** (ppm)		0.79	1.78		
	Zinc** (ppm)		3.67	6.43		
	Aluminum** (ppm)		84	44		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		10.4	5.1		
	NH ₄ -N (ppm)		0.9	1.3		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location	FAIRWAY	7	16			
Sample Identification						
Lab Number		0212-1	0213-1			
Total Exchange Capacity (ME/100 g)		11.82	9.25			
pH (H ₂ O 1:1)		a 8.0	a 7.6			
Organic Matter (360°C LOI) %		0.81	1.09			
Estimated Nitrogen Release lb/A		32	42			
ANIONS	SOLUBLE SULFUR*	ppm	391	36		
	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	73 16	165 36		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	4046	2850		
		ppm	2023	1425		
	MAGNESIUM*	lb/A	206	278		
		ppm	103	139		
	POTASSIUM*	lb/A	150	234		
		ppm	75	117		
	SODIUM*	lb/A	114	144		
		ppm	57	72		
BASE SATURATION PERCENT						
	Calcium	%	85.58	77.03		
	Magnesium	%	7.26	12.52		
	Potassium	%	1.63	3.24		
	Sodium	%	2.10	3.38		
	Other Bases	%	3.40	3.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.58	0.64		
	Iron** (ppm)		84	106		
	Manganese** (ppm)		15	12		
	Copper** (ppm)		0.53	0.59		
	Zinc** (ppm)		3.24	4.38		
	Aluminum** (ppm)		54	57		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		5.2	7.7		
	NH ₄ -N (ppm)		< 0.5	2.3		

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Sample Location	GREEN	7	16			
Sample Identification						
Lab Number		0214-1	0215-1			
Total Exchange Capacity (ME/100 g)		6.48	5.84			
pH (H ₂ O 1:1)		a 8.4	a 8.5			
Organic Matter (360°C LOI) %		1.08	0.82			
Estimated Nitrogen Release lb/A		42	33			
ANIONS	SOLUBLE SULFUR*	ppm	48	26		
	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	27 6	27 6		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	1956 978	1828 914		
	MAGNESIUM*	lb/A ppm	216 108	178 89		
	POTASSIUM*	lb/A ppm	178 89	132 66		
	SODIUM*	lb/A ppm	124 62	88 44		
BASE SATURATION PERCENT						
	Calcium	%	75.46	78.25		
	Magnesium	%	13.89	12.70		
	Potassium	%	3.52	2.90		
	Sodium	%	4.16	3.28		
	Other Bases	%	3.00	2.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.92	0.91		
	Iron** (ppm)		100	75		
	Manganese** (ppm)		32	31		
	Copper** (ppm)		1.25	0.84		
	Zinc** (ppm)		4.06	2.07		
	Aluminum** (ppm)		40	44		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		4.4	2.3		
	NH ₄ -N (ppm)		1.9	11.3		

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Sample Location	GREEN	12	17			
Sample Identification						
Lab Number		0216-1	0217-1			
Total Exchange Capacity (ME/100 g)		6.47	5.23			
pH (H ₂ O 1:1)		a 8.5	a 8.5			
Organic Matter (360°C LOI) %		0.86	0.87			
Estimated Nitrogen Release lb/A		34	35			
ANIONS	SOLUBLE SULFUR*	ppm	29	19		
	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	27 6	27 6		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2008 1004	1616 808		
	MAGNESIUM*	lb/A ppm	208 104	170 85		
	POTASSIUM*	lb/A ppm	146 73	122 61		
	SODIUM*	lb/A ppm	98 49	82 41		
BASE SATURATION PERCENT						
	Calcium	%	77.59	77.25		
	Magnesium	%	13.40	13.54		
	Potassium	%	2.89	2.99		
	Sodium	%	3.29	3.41		
	Other Bases	%	2.90	2.90		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron** (ppm)		0.78	0.98		
	Iron** (ppm)		58	71		
	Manganese** (ppm)		21	21		
	Copper** (ppm)		0.80	0.80		
	Zinc** (ppm)		2.28	2.73		
	Aluminum** (ppm)		35	47		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		2.9	2.8		
	NH ₄ -N (ppm)		6.0	23.1		

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