

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name The Summit City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 10/3/2018

Sample Location <u>GREEN</u>		2	8	11		
Sample Identification						
Lab Number		0213-1	0214-1	0215-1		
Total Exchange Capacity (ME/100 g)		6.09	5.66	6.82		
pH (H ₂ O 1:1)		a 8.1	a 8.6	a 8.3		
Organic Matter (360°C LOI) %		0.92	0.62	0.68		
Estimated Nitrogen Release lb/A		37	25	27		
ANIONS	SOLUBLE SULFUR* ppm	22	20	45		
	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					
	OLSEN lb/A P as P ₂ O ₅ ppm of P	50 11	55 12	37 8		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1860	1758	2132		
	ppm	930	879	1066		
	MAGNESIUM* lb/A	204	176	206		
	ppm	102	88	103		
	POTASSIUM* lb/A	140	128	150		
	ppm	70	64	75		
	SODIUM* lb/A	96	96	106		
	ppm	48	48	53		
BASE SATURATION PERCENT						
Calcium %		76.35	77.65	78.15		
Magnesium %		13.96	12.96	12.59		
Potassium %		2.95	2.90	2.82		
Sodium %		3.43	3.69	3.38		
Other Bases %		3.30	2.80	3.10		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		0.67	0.64	0.60		
Iron** (ppm)		52	45	42		
Manganese** (ppm)		9	14	21		
Copper** (ppm)		0.54	0.43	0.64		
Zinc** (ppm)		1.40	0.92	1.30		
Aluminum** (ppm)		64	46	42		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.5	< 0.5	< 0.5		
	NH ₄ -N (ppm)	2.2	1.2	1.8		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY		3	10			
Sample Identification						
Lab Number		0216-1	0217-1			
Total Exchange Capacity (ME/100 g)		7.79	8.14			
pH (H ₂ O 1:1)		a 8.1	a 8.4			
Organic Matter (360°C LOI) %		0.73	0.25			
Estimated Nitrogen Release lb/A		29	10			
ANIONS	SOLUBLE SULFUR* ppm	154	122			
	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					
	OLSEN lb/A P as P ₂ O ₅ ppm of P	133 29	37 8			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	2496	2662			
	ppm	1248	1331			
	MAGNESIUM* lb/A	214	204			
	ppm	107	102			
	POTASSIUM* lb/A	150	118			
	ppm	75	59			
	SODIUM* lb/A	94	110			
	ppm	47	55			
BASE SATURATION PERCENT						
Calcium %		80.10	81.76			
Magnesium %		11.45	10.44			
Potassium %		2.47	1.86			
Sodium %		2.62	2.94			
Other Bases %		3.30	3.00			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.84	0.38			
Iron** (ppm)		88	49			
Manganese** (ppm)		10	15			
Copper** (ppm)		1.13	0.63			
Zinc** (ppm)		4.64	1.29			
Aluminum** (ppm)		78	77			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.7	< 0.5			
	NH ₄ -N (ppm)	2.0	1.3			

a - alkaline soil

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** Mehlich III Extractable