

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Las Vegas Country Club City Las Vegas State NV

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

Sample Location TEE			2	11			
Sample Identification							
Lab Number			0703-1	0704-1			
Total Exchange Capacity (ME/100 g)			18.40	15.68			
pH (H ₂ O 1:1)			a 7.7	a 8.2			
Organic Matter (360°C LOI) %			1.63	3.28			
Estimated Nitrogen Release lb/A			53	83			
ANIONS	SOLUBLE SULFUR* ppm		516	72			
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		124	119			
			27	26			
	CALCIUM* lb/A		5444	4216			
		ppm	2722	2108			
	MAGNESIUM* lb/A		554	888			
		ppm	277	444			
	POTASSIUM* lb/A		1074	500			
		ppm	537	250			
	SODIUM* lb/A		194	136			
		ppm	97	68			
BASE SATURATION PERCENT							
Calcium %			73.97	67.22			
Magnesium %			12.55	23.60			
Potassium %			7.48	4.09			
Sodium %			2.29	1.89			
Other Bases %			3.70	3.20			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.70	1.24			
Iron** (ppm)			73	112			
Manganese** (ppm)			23	17			
Copper** (ppm)			1.58	4.79			
Zinc** (ppm)			4.22	13.51			
Aluminum** (ppm)			53	124			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.3	16.7			
	NH ₄ -N (ppm)		4.8	2.3			

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			0705-1	0706-1			
Total Exchange Capacity (ME/100 g)			38.53	123.89			
pH (H ₂ O 1:1)			a 8.0	a 8.0			
Organic Matter (360°C LOI) %			4.89	5.61			
Estimated Nitrogen Release lb/A			99	103			
ANIONS	SOLUBLE SULFUR* ppm		3302	14277			
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		206	124			
			45	27			
	CALCIUM* lb/A		12604	46084			
	ppm		6302	23042			
	MAGNESIUM* lb/A		1110	884			
	ppm		555	442			
	POTASSIUM* lb/A		528	374			
	ppm		264	187			
	SODIUM* lb/A		188	142			
	ppm		94	71			
BASE SATURATION PERCENT							
Calcium %			81.78	92.99			
Magnesium %			12.00	2.97			
Potassium %			1.76	0.39			
Sodium %			1.06	0.25			
Other Bases %			3.40	3.40			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.92	1.51			
Iron** (ppm)			75	84			
Manganese** (ppm)			19	15			
Copper** (ppm)			4.00	3.50			
Zinc** (ppm)			22.85	15.56			
Aluminum** (ppm)			13	15			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		24.7	22.4			
	NH ₄ -N (ppm)		2.8	2.7			

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** Mehlich III Extractable

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SOIL AUDIT AND INVENTORY REPORT

Name Las Vegas Country Club City Las Vegas State NV

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

Sample Location <u>GREEN</u>		2	11			
Sample Identification						
Lab Number		0707-1	0708-1			
Total Exchange Capacity (ME/100 g)		10.29	9.97			
pH (H ₂ O 1:1)		a 8.6	a 8.8			
Organic Matter (360°C LOI) %		0.77	0.67			
Estimated Nitrogen Release lb/A		31	27			
ANIONS	SOLUBLE SULFUR* ppm	116	92			
	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	215 47	234 51			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3412	3292			
	ppm	1706	1646			
	MAGNESIUM* lb/A	288	294			
	ppm	144	147			
	POTASSIUM* lb/A	124	112			
	ppm	62	56			
	SODIUM* lb/A	50	50			
	ppm	25	25			
BASE SATURATION PERCENT						
Calcium %		82.90	82.55			
Magnesium %		11.66	12.29			
Potassium %		1.54	1.44			
Sodium %		1.06	1.09			
Other Bases %		2.80	2.60			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.65	0.67			
Iron** (ppm)		27	26			
Manganese** (ppm)		16	17			
Copper** (ppm)		1.26	1.79			
Zinc** (ppm)		3.72	3.53			
Aluminum** (ppm)		< 1	< 1			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	2.1	1.9			
	NH ₄ -N (ppm)	1.8	1.5			

a - alkaline soil

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** Mehlich III Extractable