

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 6/27/2018

Sample Location TEE			3	12			
Sample Identification							
Lab Number			1276-1	1277-1			
Total Exchange Capacity (ME/100 g)			15.59	20.01			
pH (H ₂ O 1:1)			a 8.0	a 8.1			
Organic Matter (360°C LOI) %			3.80	2.65			
Estimated Nitrogen Release lb/A			88	73			
ANIONS	SOLUBLE SULFUR* ppm		42	750			
	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		87	202			
			19	44			
	CALCIUM* lb/A		4288	5594			
		ppm	2144	2797			
	MAGNESIUM* lb/A		854	898			
		ppm	427	449			
	POTASSIUM* lb/A		412	926			
		ppm	206	463			
	SODIUM* lb/A		116	200			
		ppm	58	100			
BASE SATURATION PERCENT							
	Calcium %		68.76	69.89			
	Magnesium %		22.82	18.70			
	Potassium %		3.39	5.93			
	Sodium %		1.62	2.17			
	Other Bases %		3.40	3.30			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		1.28	1.37			
	Iron** (ppm)		138	109			
	Manganese** (ppm)		15	28			
	Copper** (ppm)		3.35	3.01			
	Zinc** (ppm)		15.30	12.55			
	Aluminum** (ppm)		125	116			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.2	12.3			
	NH ₄ -N (ppm)		5.5	2.4			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY		3	12			
Sample Identification						
Lab Number		1278-1	1279-1			
Total Exchange Capacity (ME/100 g)		25.40	81.55			
pH (H ₂ O 1:1)		a 7.7	a 8.0			
Organic Matter (360°C LOI) %		5.20	5.31			
Estimated Nitrogen Release lb/A		101	102			
ANIONS	SOLUBLE SULFUR* ppm	1287	9908			
	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	101 22	174 38			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	7678	29102			
	ppm	3839	14551			
	MAGNESIUM* lb/A	1066	1190			
	ppm	533	595			
	POTASSIUM* lb/A	392	450			
	ppm	196	225			
	SODIUM* lb/A	146	222			
	ppm	73	111			
BASE SATURATION PERCENT						
Calcium %		75.57	89.22			
Magnesium %		17.49	6.08			
Potassium %		1.98	0.71			
Sodium %		1.25	0.59			
Other Bases %		3.70	3.40			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.43	2.06			
Iron** (ppm)		131	92			
Manganese** (ppm)		16	15			
Copper** (ppm)		3.98	4.42			
Zinc** (ppm)		23.55	30.59			
Aluminum** (ppm)		43	40			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	11.1	10.1			
	NH ₄ -N (ppm)	6.3	3.6			

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Sample Location <u>GREEN</u>			3	12			
Sample Identification							
Lab Number			1280-1	1281-1			
Total Exchange Capacity (ME/100 g)			10.00	11.16			
pH (H ₂ O 1:1)			a 8.6	a 8.7			
Organic Matter (360°C LOI) %			1.15	1.06			
Estimated Nitrogen Release lb/A			43	41			
ANIONS	SOLUBLE SULFUR* ppm		142	300			
	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		348 76	357 78			
	CALCIUM* lb/A ppm		3134 1567	3338 1669			
	MAGNESIUM* lb/A ppm		362 181	474 237			
	POTASSIUM* lb/A ppm		192 96	252 126			
	SODIUM* lb/A ppm		62 31	100 50			
BASE SATURATION PERCENT							
Calcium %			78.35	74.78			
Magnesium %			15.08	17.70			
Potassium %			2.46	2.89			
Sodium %			1.35	1.95			
Other Bases %			2.80	2.70			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.67	0.68			
Iron** (ppm)			49	45			
Manganese** (ppm)			31	28			
Copper** (ppm)			2.10	2.03			
Zinc** (ppm)			9.32	8.53			
Aluminum** (ppm)			3	2			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.8	1.5			
	NH ₄ -N (ppm)		3.6	1.4			

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