

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Coyote Springs Golf Club City Coyote Springs State NV

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

Sample Location TEE				2	11			
Sample Identification								
Lab Number				0684-1	0685-1			
Total Exchange Capacity (ME/100 g)				15.16	15.70			
pH (H ₂ O 1:1)				a 8.9	a 8.8			
Organic Matter (360°C LOI) %				0.94	0.94			
Estimated Nitrogen Release lb/A				38	38			
ANIONS	SOLUBLE SULFUR* ppm			31	31			
	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	60 13	87 19			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4384	4514			
			ppm	2192	2257			
	MAGNESIUM*		lb/A	544	576			
			ppm	272	288			
	POTASSIUM*		lb/A	644	686			
			ppm	322	343			
	SODIUM*		lb/A	334	334			
			ppm	167	167			
BASE SATURATION PERCENT								
Calcium %				72.30	71.88			
Magnesium %				14.95	15.29			
Potassium %				5.45	5.60			
Sodium %				4.79	4.62			
Other Bases %				2.50	2.60			
Hydrogen %				0.00	0.00			
EXTRACTABLE MINORS								
Boron** (ppm)				0.90	0.94			
Iron** (ppm)				14	14			
Manganese** (ppm)				15	17			
Copper** (ppm)				1.06	0.80			
Zinc** (ppm)				1.03	1.15			
Aluminum** (ppm)				6	6			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			< 0.5	< 0.5			
	NH4-N (ppm)			3.0	2.6			

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			0686-1	0687-1			
Total Exchange Capacity (ME/100 g)			15.62	16.60			
pH (H ₂ O 1:1)			a 9.2	a 8.9			
Organic Matter (360°C LOI) %			0.94	0.84			
Estimated Nitrogen Release lb/A			38	34			
ANIONS	SOLUBLE SULFUR* ppm		30	108			
	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	105			
			27	23			
	CALCIUM* lb/A		4412	4434			
		ppm	2206	2217			
	MAGNESIUM* lb/A		584	632			
		ppm	292	316			
	POTASSIUM* lb/A		716	934			
		ppm	358	467			
	SODIUM* lb/A		410	582			
		ppm	205	291			
BASE SATURATION PERCENT							
Calcium %			70.61	66.78			
Magnesium %			15.58	15.86			
Potassium %			5.88	7.21			
Sodium %			5.71	7.62			
Other Bases %			2.20	2.50			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.87	1.15			
Iron** (ppm)			11	21			
Manganese** (ppm)			13	29			
Copper** (ppm)			0.47	0.55			
Zinc** (ppm)			0.59	0.98			
Aluminum** (ppm)			1	44			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5	0.6			
	NH ₄ -N (ppm)		2.9	3.6			

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Sample Location <u>GREEN</u>			2	11			
Sample Identification							
Lab Number			0688-1	0689-1			
Total Exchange Capacity (ME/100 g)			10.31	10.28			
pH (H ₂ O 1:1)			a 8.8	a 8.6			
Organic Matter (360°C LOI) %			0.64	0.78			
Estimated Nitrogen Release lb/A			26	31			
ANIONS	SOLUBLE SULFUR* ppm		18	22			
	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	55 12	105 23			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3284 1642	3216 1608			
	MAGNESIUM* lb/A ppm		288 144	308 154			
	POTASSIUM* lb/A ppm		242 121	270 135			
	SODIUM* lb/A ppm		148 74	150 75			
	BASE SATURATION PERCENT						
	Calcium	%	79.63	78.21			
	Magnesium	%	11.64	12.48			
	Potassium	%	3.01	3.37			
	Sodium	%	3.12	3.17			
	Other Bases	%	2.60	2.80			
	Hydrogen	%	0.00	0.00			
	EXTRACTABLE MINORS						
	Boron** (ppm)		0.65	0.68			
	Iron** (ppm)		38	41			
	Manganese** (ppm)		24	28			
	Copper** (ppm)		2.09	1.87			
	Zinc** (ppm)		5.84	5.26			
	Aluminum** (ppm)		98	116			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.1	1.3			
	NH ₄ -N (ppm)		2.6	3.3			

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