

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 6/25/2019

Sample Location TEE			6	15			
Sample Identification							
Lab Number			1498-1	1499-1			
Total Exchange Capacity (ME/100 g)			18.84	18.61			
pH (H ₂ O 1:1)			a 8.6	a 8.8			
Organic Matter (360°C LOI) %			2.18	3.85			
Estimated Nitrogen Release lb/A			64	88			
ANIONS	SOLUBLE SULFUR* ppm		36	27			
	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	87 19	110 24			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5244 2622	5084 2542			
	MAGNESIUM* lb/A ppm		796 398	822 411			
	POTASSIUM* lb/A ppm		914 457	936 468			
	SODIUM* lb/A ppm		328 164	366 183			
	BASE SATURATION PERCENT						
	Calcium	%	69.59	68.30			
	Magnesium	%	17.60	18.40			
	Potassium	%	6.22	6.45			
Sodium	%	3.78	4.28				
Other Bases	%	2.80	2.60				
Hydrogen	%	0.00	0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			1.29	1.78			
Iron** (ppm)			22	18			
Manganese** (ppm)			22	21			
Copper** (ppm)			1.07	1.02			
Zinc** (ppm)			4.50	4.74			
Aluminum** (ppm)			2	4			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO3-N (ppm)		< 0.5	< 0.5			
	NH4-N (ppm)		4.7	6.5			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location FAIRWAY			6	15			
Sample Identification							
Lab Number			1500-1	1501-1			
Total Exchange Capacity (ME/100 g)			17.26	18.10			
pH (H ₂ O 1:1)			a 8.4	a 8.7			
Organic Matter (360°C LOI) %			2.15	2.12			
Estimated Nitrogen Release lb/A			63	62			
ANIONS	SOLUBLE SULFUR* ppm		59	39			
	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		133	192			
			29	42			
	CALCIUM* lb/A		5150	5084			
		ppm	2575	2542			
	MAGNESIUM* lb/A		594	792			
		ppm	297	396			
	POTASSIUM* lb/A		620	740			
		ppm	310	370			
	SODIUM* lb/A		276	302			
		ppm	138	151			
BASE SATURATION PERCENT							
Calcium %			74.59	70.22			
Magnesium %			14.34	18.23			
Potassium %			4.61	5.24			
Sodium %			3.48	3.63			
Other Bases %			3.00	2.70			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.84	1.13			
Iron** (ppm)			18	17			
Manganese** (ppm)			18	18			
Copper** (ppm)			0.33	0.50			
Zinc** (ppm)			3.12	3.46			
Aluminum** (ppm)			1	2			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5	< 0.5			
	NH ₄ -N (ppm)		5.0	4.6			

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Sample Location GREEN				6	15			
Sample Identification								
Lab Number				1502-1	1503-1			
Total Exchange Capacity (ME/100 g)				13.04	12.31			
pH (H ₂ O 1:1)				a 8.8	a 8.7			
Organic Matter (360°C LOI) %				0.75	1.13			
Estimated Nitrogen Release lb/A				30	43			
ANIONS	SOLUBLE SULFUR* ppm			35	27			
	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	101 22			
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	4114	3866			
			ppm	2057	1933			
	MAGNESIUM*		lb/A	380	386			
			ppm	190	193			
	POTASSIUM*		lb/A	338	268			
			ppm	169	134			
	SODIUM*		lb/A	184	166			
			ppm	92	83			
BASE SATURATION PERCENT								
Calcium %				78.87	78.51			
Magnesium %				12.14	13.07			
Potassium %				3.32	2.79			
Sodium %				3.07	2.93			
Other Bases %				2.60	2.70			
Hydrogen %				0.00	0.00			
EXTRACTABLE MINORS								
Boron** (ppm)				0.80	0.89			
Iron** (ppm)				41	44			
Manganese** (ppm)				46	65			
Copper** (ppm)				1.76	2.03			
Zinc** (ppm)				8.96	8.17			
Aluminum** (ppm)				11	2			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			< 0.5	< 0.5			
	NH4-N (ppm)			4.9	4.6			

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