

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 3/15/2019

Sample Location TEE			5	14			
Sample Identification							
Lab Number			0718-1	0719-1			
Total Exchange Capacity (ME/100 g)			14.50	14.62			
pH (H ₂ O 1:1)			a 8.6	a 8.7			
Organic Matter (360°C LOI) %			1.69	1.75			
Estimated Nitrogen Release lb/A			54	55			
ANIONS	SOLUBLE SULFUR* ppm		13	10			
	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		41 9	50 11			
	CALCIUM* lb/A		4214	4120			
	ppm		2107	2060			
	MAGNESIUM* lb/A		570	616			
	ppm		285	308			
	POTASSIUM* lb/A		564	648			
	ppm		282	324			
	SODIUM* lb/A		212	242			
	ppm		106	121			
BASE SATURATION PERCENT							
Calcium %			72.66	70.45			
Magnesium %			16.38	17.56			
Potassium %			4.99	5.68			
Sodium %			3.18	3.60			
Other Bases %			2.80	2.70			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.86	1.10			
Iron** (ppm)			12	14			
Manganese** (ppm)			14	19			
Copper** (ppm)			0.86	1.06			
Zinc** (ppm)			2.38	2.16			
Aluminum** (ppm)			12	24			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5	< 0.5			
	NH ₄ -N (ppm)		5.9	4.6			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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 3/15/2019

Sample Location FAIRWAY		5	14			
Sample Identification						
Lab Number		0720-1	0721-1			
Total Exchange Capacity (ME/100 g)		15.28	15.22			
pH (H ₂ O 1:1)		a 8.8	a 8.7			
Organic Matter (360°C LOI) %		1.65	1.42			
Estimated Nitrogen Release lb/A		53	48			
ANIONS	SOLUBLE SULFUR* ppm	17	11			
	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	128 28	64 14			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	4332	4342			
	ppm	2166	2171			
	MAGNESIUM* lb/A	648	612			
	ppm	324	306			
	POTASSIUM* lb/A	664	698			
	ppm	332	349			
	SODIUM* lb/A	230	234			
	ppm	115	117			
BASE SATURATION PERCENT						
Calcium %		70.88	71.32			
Magnesium %		17.67	16.75			
Potassium %		5.57	5.88			
Sodium %		3.27	3.34			
Other Bases %		2.60	2.70			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.06	0.91			
Iron** (ppm)		10	12			
Manganese** (ppm)		13	15			
Copper** (ppm)		0.77	0.68			
Zinc** (ppm)		1.63	1.84			
Aluminum** (ppm)		4	8			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	< 0.5	< 0.5			
	NH ₄ -N (ppm)	4.4	3.6			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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 3/15/2019

Sample Location <u>GREEN</u>		5	14			
Sample Identification						
Lab Number		0722-1	0723-1			
Total Exchange Capacity (ME/100 g)		11.91	10.62			
pH (H ₂ O 1:1)		a 8.7	a 8.8			
Organic Matter (360°C LOI) %		1.10	0.98			
Estimated Nitrogen Release lb/A		42	39			
ANIONS	SOLUBLE SULFUR* ppm	14	13			
	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	137 30			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3584	3298			
	ppm	1792	1649			
	MAGNESIUM* lb/A	436	348			
	ppm	218	174			
	POTASSIUM* lb/A	362	276			
	ppm	181	138			
	SODIUM* lb/A	162	134			
	ppm	81	67			
BASE SATURATION PERCENT						
Calcium %		75.23	77.64			
Magnesium %		15.25	13.65			
Potassium %		3.90	3.33			
Sodium %		2.96	2.74			
Other Bases %		2.70	2.60			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.13	1.09			
Iron** (ppm)		61	46			
Manganese** (ppm)		72	51			
Copper** (ppm)		2.66	2.20			
Zinc** (ppm)		12.11	8.06			
Aluminum** (ppm)		236	128			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.5	< 0.5			
	NH ₄ -N (ppm)	4.9	4.5			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable