

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name The Summit City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 6/27/2018

Sample Location TEE			3	12			
Sample Identification							
Lab Number			1295-1	1296-1			
Total Exchange Capacity (ME/100 g)			7.80	7.02			
pH (H ₂ O 1:1)			a 7.8	a 8.1			
Organic Matter (360°C LOI) %			0.48	0.39			
Estimated Nitrogen Release lb/A			19	16			
ANIONS	SOLUBLE SULFUR* ppm		107	52			
	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		110	55			
			24	12			
	CALCIUM* lb/A		2454	2302			
	ppm		1227	1151			
	MAGNESIUM* lb/A		186	160			
	ppm		93	80			
	POTASSIUM* lb/A		182	112			
	ppm		91	56			
	SODIUM* lb/A		172	102			
	ppm		86	51			
BASE SATURATION PERCENT							
Calcium %			78.65	81.98			
Magnesium %			9.94	9.50			
Potassium %			2.99	2.05			
Sodium %			4.79	3.16			
Other Bases %			3.60	3.30			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.54	0.48			
Iron** (ppm)			76	48			
Manganese** (ppm)			10	9			
Copper** (ppm)			1.05	1.05			
Zinc** (ppm)			3.69	2.09			
Aluminum** (ppm)			64	77			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		26.0	7.4			
	NH ₄ -N (ppm)		28.0	4.3			

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			1297-1	1298-1			
Total Exchange Capacity (ME/100 g)			7.98	6.37			
pH (H ₂ O 1:1)			a 7.9	a 8.4			
Organic Matter (360°C LOI) %			0.38	0.32			
Estimated Nitrogen Release lb/A			15	13			
ANIONS	SOLUBLE SULFUR* ppm		144	47			
	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		110	46			
			24	10			
	CALCIUM* lb/A		2506	2028			
			1253	1014			
	MAGNESIUM* lb/A		198	172			
			99	86			
	POTASSIUM* lb/A		152	118			
			76	59			
	SODIUM* lb/A		192	110			
			96	55			
BASE SATURATION PERCENT							
Calcium %			78.51	79.59			
Magnesium %			10.34	11.25			
Potassium %			2.44	2.37			
Sodium %			5.23	3.75			
Other Bases %			3.50	3.00			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			0.53	0.33			
Iron** (ppm)			74	51			
Manganese** (ppm)			8	6			
Copper** (ppm)			0.74	0.57			
Zinc** (ppm)			2.70	0.81			
Aluminum** (ppm)			74	84			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		3.1	14.8			
	NH ₄ -N (ppm)		3.1	43.3			

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Sample Location <u>GREEN</u>			3	12			
Sample Identification							
Lab Number			1299-1	1300-1			
Total Exchange Capacity (ME/100 g)			7.60	6.88			
pH (H ₂ O 1:1)			a 8.3	a 8.4			
Organic Matter (360°C LOI) %			0.79	0.73			
Estimated Nitrogen Release lb/A			32	29			
ANIONS	SOLUBLE SULFUR* ppm		101	97			
	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	32 7			
	CALCIUM* lb/A		2244	1996			
	ppm		1122	998			
	MAGNESIUM* lb/A		252	240			
BASE SATURATION PERCENT	ppm		126	120			
	POTASSIUM* lb/A		156	182			
	ppm		78	91			
	SODIUM* lb/A		230	206			
OTHER TESTS	ppm		115	103			
	Calcium %		73.82	72.53			
	Magnesium %		13.82	14.53			
EXTRACTABLE MINORS	Potassium %		2.63	3.39			
	Sodium %		6.58	6.51			
	Other Bases %		3.10	3.00			
	Hydrogen %		0.00	0.00			
OTHER TESTS	Boron** (ppm)		0.44	0.51			
	Iron** (ppm)		36	36			
	Manganese** (ppm)		11	13			
	Copper** (ppm)		0.32	0.50			
OTHER TESTS	Zinc** (ppm)		0.49	0.52			
	Aluminum** (ppm)		33	34			
	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
OTHER TESTS	NO ₃ -N (ppm)		< 0.5	0.8			
	NH ₄ -N (ppm)		1.6	47.6			

a - alkaline soil

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