

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Canyon Gate Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 9/28/2017

Sample Location GREENS				1	5	7	13	15
Sample Identification								
Lab Number				0259-1	0260-1	0261-1	0262-1	0263-1
Total Exchange Capacity (ME/100 g)				6.03	6.85	7.10	6.62	5.54
pH (H ₂ O 1:1)				a 8.1	a 8.2	a 8.3	a 8.6	a 9.0
Organic Matter (360°C LOI) %				0.23	0.15	0.19	0.18	0.13
Estimated Nitrogen Release lb/A				9	6	8	7	5
ANIONS	SOLUBLE SULFUR* ppm			21	40	44	37	21
	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	46 10	60 13	119 26	92 20	69 15	
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	1912 956	2204 1102	2276 1138	2132 1066	1756 878		
	MAGNESIUM* lb/A ppm	160 80	156 78	164 82	162 81	144 72		
	POTASSIUM* lb/A ppm	142 71	214 107	218 109	184 92	170 85		
	SODIUM* lb/A ppm	94 47	92 46	106 53	88 44	92 46		
BASE SATURATION PERCENT								
Calcium %				79.27	80.44	80.14	80.51	79.24
Magnesium %				11.06	9.49	9.62	10.20	10.83
Potassium %				3.02	4.01	3.94	3.56	3.93
Sodium %				3.39	2.92	3.25	2.89	3.61
Other Bases %				3.30	3.20	3.10	2.80	2.40
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron M3 (ppm)								
Iron** (ppm)				4	3	3	4	5
Manganese** (ppm)				5	3	3	2	2
Copper** (ppm)				0.48	0.48	0.55	0.57	0.55
Zinc** (ppm)				2.11	2.06	2.32	2.23	2.41
Aluminum (ppm)								
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location <u>GREENS</u>		PG				
Sample Identification						
Lab Number		0264-1				
Total Exchange Capacity (ME/100 g)		6.50				
pH (H ₂ O 1:1)		a 8.5				
Organic Matter (360°C LOI) %		0.18				
Estimated Nitrogen Release lb/A		7				
ANIONS	SOLUBLE SULFUR* ppm	30				
	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				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2086 1043				
	MAGNESIUM* lb/A ppm	158 79				
	POTASSIUM* lb/A ppm	186 93				
	SODIUM* lb/A ppm	90 45				
	BASE SATURATION PERCENT					
	Calcium %	80.23				
	Magnesium %	10.13				
	Potassium %	3.67				
	Sodium %	3.01				
	Other Bases %	2.90				
	Hydrogen %	0.00				
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)	4				
	Manganese** (ppm)	3				
	Copper** (ppm)	0.50				
	Zinc** (ppm)	1.72				
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

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