

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

48318-4

Name Boulder City Municipal Golf City Boulder City State NVIndependent Consultant Soil and Water Consulting Date 6/29/2009

Sample Location	TEE	2	17			
Sample Identification						
Lab Number		0317-1	0318-1			
Total Exchange Capacity (ME/100 g)		16.62	17.16			
pH (H ₂ O 1:1)		a 7.8	a 7.6			
Organic Matter (360°C LOI) %		4.03	3.30			
Estimated Nitrogen Release	lb/A	90	83			
ANIONS	SOLUBLE SULFUR*	ppm	111	192		
	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	197 43	206 45		
	CALCIUM*	lb/A	4540	4644		
		ppm	2270	2322		
	MAGNESIUM*	lb/A	602	586		
		ppm	301	293		
	POTASSIUM*	lb/A	796	760		
		ppm	398	380		
	SODIUM*	lb/A	524	680		
		ppm	262	340		
BASE SATURATION PERCENT						
	Calcium	%	68.29	67.66		
	Magnesium	%	15.09	14.23		
	Potassium	%	6.14	5.68		
	Sodium	%	6.85	8.61		
	Other Bases	%	3.60	3.80		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)		49	27		
	Manganese** (ppm)		3	3		
	Copper** (ppm)		0.84	0.72		
	Zinc** (ppm)		23.27	11.11		
	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	FAIRWAY	2	17			
Sample Identification						
Lab Number		0319-1	0320-1			
Total Exchange Capacity (ME/100 g)		16.56	19.07			
pH (H ₂ O 1:1)		a 7.7	a 7.7			
Organic Matter (360°C LOI) %		3.08	3.57			
Estimated Nitrogen Release lb/A		81	86			
ANIONS	SOLUBLE SULFUR*	ppm	83	146		
	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	165 36		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4462 2231	5330 2665		
	MAGNESIUM*	lb/A ppm	600 300	620 310		
	POTASSIUM*	lb/A ppm	908 454	880 440		
	SODIUM*	lb/A ppm	520 260	610 305		
BASE SATURATION PERCENT						
	Calcium	%	67.36	69.87		
	Magnesium	%	15.10	13.55		
	Potassium	%	7.03	5.92		
	Sodium	%	6.83	6.95		
	Other Bases	%	3.70	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)		25	30		
	Manganese** (ppm)		2	4		
	Copper** (ppm)		0.27	0.51		
	Zinc** (ppm)		25.36	22.09		
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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Sample Location	GREEN	2	17			
Sample Identification						
Lab Number		0321-1	0322-1			
Total Exchange Capacity (ME/100 g)		11.41	11.54			
pH (H ₂ O 1:1)		a 7.7	a 7.7			
Organic Matter (360°C LOI) %		3.77	2.78			
Estimated Nitrogen Release lb/A		88	76			
ANIONS	SOLUBLE SULFUR*	ppm	79	74		
	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	147 32	101 22		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3130 1565	3088 1544		
	MAGNESIUM*	lb/A ppm	384 192	372 186		
	POTASSIUM*	lb/A ppm	550 275	712 356		
	SODIUM*	lb/A ppm	396 198	428 214		
BASE SATURATION PERCENT						
	Calcium	%	68.58	66.90		
	Magnesium	%	14.02	13.43		
	Potassium	%	6.18	7.91		
	Sodium	%	7.54	8.06		
	Other Bases	%	3.70	3.70		
	Hydrogen	%	0.00	0.00		
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)		50	28		
	Manganese** (ppm)		2	2		
	Copper** (ppm)		1.34	0.93		
	Zinc** (ppm)		28.34	24.98		
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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