

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

47327-1

Name Boulder Creek Golf Club City Boulder City State NVIndependent Consultant Soil and Water Consulting Date 7/5/2007

Sample Location			DESSERT HAWK	TEE	GREEN	PRACTICE		
Sample Identification				1 (W)	9	GREEN (W)		
Lab Number				0073-1	0074-1	0075-1		
Total Exchange Capacity (ME/100 g)				28.14	10.80	8.83		
pH (H ₂ O 1:1)				7.3	a 7.8	a 7.6		
Organic Matter (360°C LOI) %				1.08	2.01	1.68		
Estimated Nitrogen Release lb/A				42	60	54		
ANIONS	SOLUBLE SULFUR* ppm			541	45	33		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	ppm of P	302	87	110		
				66	19	24		
		BRAY II lb/A P as P ₂ O ₅	ppm of P	1085	307	188		
				237	67	41		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	8796	1570	1084			
		ppm	4398	785	542			
	MAGNESIUM*	lb/A	656	270	224			
		ppm	328	135	112			
	POTASSIUM*	lb/A	828	2214	2006			
		ppm	414	1107	1003			
	SODIUM*	lb/A	554	1162	1048			
		ppm	277	581	524			
BASE SATURATION PERCENT								
Calcium %				78.14	36.34	30.69		
Magnesium %				9.71	10.42	10.57		
Potassium %				3.77	26.28	29.13		
Sodium %				4.28	23.39	25.80		
Other Bases %				4.10	3.60	3.80		
Hydrogen %				0.00	0.00	0.00		
EXTRACTABLE MINORS								
Boron* (ppm)				0.67	0.23	0.31		
Iron* (ppm)				43	34	33		
Manganese* (ppm)				36	20	18		
Copper* (ppm)				0.52	0.30	0.31		
Zinc* (ppm)				2.57	2.55	2.71		
Aluminum* (ppm)				203	248	207		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

a - alkaline soil

* Mehlich III Extractable

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Sample Location			COYOTE RUN	ROUGH	GREEN	FAIRWAY		
Sample Identification				2	4 (W)	6		
Lab Number				0076-1	0077-1	0078-1		
Total Exchange Capacity (ME/100 g)				20.48	9.28	26.23		
pH (H ₂ O 1:1)				a 7.5	a 7.9	a 7.9		
Organic Matter (360°C LOI) %				0.85	1.93	0.85		
Estimated Nitrogen Release lb/A				34	59	34		
ANIONS	SOLUBLE SULFUR* ppm			197	34	204		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	ppm of P	362 79	64 14	211 46		
		BRAY II lb/A P as P ₂ O ₅	ppm of P	1360 297	110 24	884 193		
		OLSEN lb/A P as P ₂ O ₅	ppm of P					
EXCHANGEABLE CATIONS	CALCIUM*		lb/A ppm	5742 2871	1164 582	7822 3911		
	MAGNESIUM*		lb/A ppm	684 342	218 109	730 365		
	POTASSIUM*		lb/A ppm	908 454	2152 1076	846 423		
	SODIUM*		lb/A ppm	604 302	1096 548	752 376		
	BASE SATURATION PERCENT							
	Calcium	%		70.09	31.36	74.55		
	Magnesium	%		13.92	9.79	11.60		
	Potassium	%		5.68	29.73	4.14		
Sodium	%		6.41	25.67	6.23			
Other Bases	%		3.90	3.50	3.50			
Hydrogen	%		0.00	0.00	0.00			
EXTRACTABLE MINORS								
Boron* (ppm)			0.78	0.29	0.62			
Iron* (ppm)			50	29	44			
Manganese* (ppm)			45	18	37			
Copper* (ppm)			0.61	0.26	0.48			
Zinc* (ppm)			2.56	1.12	4.82			
Aluminum* (ppm)			268	231	173			
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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Sample Location			ELDORADO	TEE	ROUGH	GREEN		
Sample Identification				3	7	9 (W)		
Lab Number				0079-1	0080-1	0081-1		
Total Exchange Capacity (ME/100 g)				27.49	24.20	11.64		
pH (H ₂ O 1:1)				a 7.6	a 7.7	6.7		
Organic Matter (360°C LOI) %				1.12	0.67	1.90		
Estimated Nitrogen Release lb/A				42	27	58		
ANIONS	SOLUBLE SULFUR* ppm			427	203	26		
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	398	266	69			
			ppm of P	87	58	15		
		BRAY II lb/A P as P ₂ O ₅	1397	1163	270			
			ppm of P	305	254	59		
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	8110	7454	1850		
			ppm	4055	3727	925		
	MAGNESIUM*		lb/A	802	636	270		
			ppm	401	318	135		
	POTASSIUM*		lb/A	896	790	1958		
			ppm	448	395	979		
	SODIUM*		lb/A	772	462	1064		
			ppm	386	231	532		
BASE SATURATION PERCENT								
Calcium %				73.75	77.00	39.73		
Magnesium %				12.16	10.95	9.66		
Potassium %				4.18	4.19	21.57		
Sodium %				6.10	4.15	19.87		
Other Bases %				3.80	3.70	4.70		
Hydrogen %				0.00	0.00	4.50		
EXTRACTABLE MINORS								
Boron* (ppm)				0.70	0.71	0.26		
Iron* (ppm)				54	42	28		
Manganese* (ppm)				47	40	16		
Copper* (ppm)				0.99	0.62	0.35		
Zinc* (ppm)				2.72	1.46	0.82		
Aluminum* (ppm)				216	203	205		
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

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