

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Boulder Creek Golf Club
1501 Veterans Memorial Drive
Boulder City, NV 89005

File Number: 47327
Date Received: 11/6/2008
Date Reported: 11/7/2008

Submitted By: Soil and Water Consulting

Lab Number	10821			10822			
Description	TEES			TEES			
	D. HAWK			COYOTE R			
	#9			#9			
pH	7.3			7.6			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	2061			1920			
Chloride	86			76			
Nitrate (NO ₃ -N)	2.6			3.9			
Bicarbonate	84.11			79.97			
Sulfur	525.28			527.66			
Phosphorus	2.64			2.08			
Calcium	499.12	24.91	64.23	493.76	24.64	64.14	
Magnesium	86.18	7.09	18.28	86.44	7.11	18.51	
Potassium	24.12	0.62	1.59	32.62	0.83	2.17	
Sodium	141.78	6.16	15.90	134.13	5.83	15.18	
TOTAL		38.77	100		38.41	100	
Boron	0.21			0.15			
Iron	0.51			0.30			
Manganese	0.04			0.03			
Copper	0.04			0.05			
Zinc	0.02			0.05			
Aluminum	1.09			0.71			
Ammonium (NH ₄ -N)	0.5			0.4			
ESP (calculated)	1.00			0.89			
SAR (calculated)	1.54			1.46			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	10823
Description	TEES
	ELDORADO
	#9

pH	8.0
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	602					
Chloride	55					
Nitrate (NO ₃ -N)	4.2					
Bicarbonate	88.24					
Sulfur	133.39					
Phosphorus	2.08					
Calcium	115.52	5.76	43.04			
Magnesium	33.01	2.71	20.27			
Potassium	19.46	0.50	3.72			
Sodium	101.56	4.42	32.97			
TOTAL		13.39	100			
Boron	0.20					
Iron	0.75					
Manganese	0.03					
Copper	0.04					
Zinc	0.03					
Aluminum	1.32					
Ammonium (NH ₄ -N)	0.3					
ESP (calculated)	1.87					
SAR (calculated)	2.14					

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Lab Number	10824			10825			
Description	FAIRWAYS			FAIRWAYS			
	D. HAWK			COYOTE R			
	#9			#9			
pH	7.8			7.7			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	506			928			
Chloride	42			62			
Nitrate (NO3-N)	5.8			12.2			
Bicarbonate	51.02			121.34			
Sulfur	67.06			122.18			
Phosphorus	2.47			3.25			
Calcium	78.71	3.93	42.35	126.53	6.31	44.71	
Magnesium	20.28	1.67	17.98	34.09	2.80	19.85	
Potassium	15.57	0.40	4.29	19.22	0.49	3.48	
Sodium	75.48	3.28	35.38	103.82	4.51	31.96	
TOTAL		9.28	100		14.12	100	
Boron	0.12			0.13			
Iron	3.98			0.68			
Manganese	0.10			0.03			
Copper	0.03			0.04			
Zinc	0.03			0.05			
Aluminum	6.58			1.14			
Ammonium (NH4-N)	1.0			0.9			
ESP (calculated)	1.61			1.82			
SAR (calculated)	1.96			2.11			

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number	10826
Description	FAIRWAYS ELDORADO #9

pH	7.5
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	646					
Chloride	42					
Nitrate (NO ₃ -N)	10.9					
Bicarbonate	119.96					
Sulfur	86.46					
Phosphorus	4.01					
Calcium	89.07	4.44	41.85			
Magnesium	25.31	2.08	19.60			
Potassium	17.45	0.45	4.20			
Sodium	83.92	3.65	34.35			
TOTAL		10.62	100			
Boron	0.17					
Iron	1.96					
Manganese	0.06					
Copper	0.04					
Zinc	0.02					
Aluminum	3.31					
Ammonium (NH ₄ -N)	0.5					
ESP (calculated)	1.69					
SAR (calculated)	2.02					

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	10827			10828			
Description	GREENS			GREENS			
	D. HAWK			COYOTE R			
	#9			#9			
pH	7.9			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	307			256			
Chloride	31			24			
Nitrate (NO ₃ -N)	0.8			1.2			
Bicarbonate	51.02			46.88			
Sulfur	37.09			27.97			
Phosphorus	0.99			1.45			
Calcium	23.00	1.15	24.03	17.08	0.85	21.66	
Magnesium	7.83	0.64	13.49	5.81	0.48	12.14	
Potassium	8.66	0.22	4.64	7.98	0.20	5.19	
Sodium	63.53	2.76	57.84	55.19	2.40	61.01	
TOTAL		4.78	100		3.93	100	
Boron	0.17			0.17			
Iron	0.20			0.49			
Manganese	0.02			0.06			
Copper	0.02			0.02			
Zinc	< 0.01			0.04			
Aluminum	0.93			2.78			
Ammonium (NH ₄ -N)	< 0.1			< 0.1			
ESP (calculated)	2.95			2.99			
SAR (calculated)	2.92			2.94			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	10829
Description	GREENS ELDORADO

pH	7.7
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	230					
Chloride	23					
Nitrate (NO ₃ -N)	0.7					
Bicarbonate	48.26					

Sulfur	25.37					
Phosphorus	0.99					
Calcium	14.10	0.70	20.39			
Magnesium	4.85	0.40	11.56			
Potassium	6.57	0.17	4.87			
Sodium	50.13	2.18	63.18			
TOTAL		3.45	100			

Boron	0.14
Iron	0.20
Manganese	0.02
Copper	0.02
Zinc	0.01
Aluminum	1.03
Ammonium (NH ₄ -N)	< 0.1

ESP (calculated)	2.98
SAR (calculated)	2.94

* Soluble Salts: mmhos/cm = ppm / 640