

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Chimera Golf Club at Tuscany
Henderson, NV

File Number: 57067
Date Received: 6/20/2019
Date Reported: 6/24/2019

Submitted By: Soil and Water Consulting

Lab Number	0025			0026			
Description	FAIRWAY			FAIRWAY			
	1			7			
pH	7.9			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	2726			1872			
Chloride	359			371			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	309.93			351.42			
Sulfur	595.12			234.24			
Phosphorus	2.06			2.11			
Calcium	606.26	30.25	44.23	221.00	11.03	26.67	
Magnesium	144.15	11.85	17.33	70.51	5.80	14.02	
Potassium	92.89	2.38	3.47	67.17	1.72	4.16	
Sodium	550.00	23.91	34.96	524.44	22.80	55.15	
TOTAL		68.40	100		41.35	100	
Boron	0.64			0.73			
Iron	0.25			0.40			
Manganese	1.97			1.20			
Copper	0.02			0.06			
Zinc	0.04			0.06			
Aluminum	0.40			0.67			
Ammonium (NH4-N)	1.4			2.2			
ESP (calculated)	6.04			9.37			
SAR (calculated)	5.21			7.86			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0027			0028			
Description	FAIRWAY			FAIRWAY			
	16			18			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	3345			2739			
Chloride	717			298			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	280.65			263.56			
Sulfur	678.33			630.72			
Phosphorus	0.97			1.59			
Calcium	607.91	30.33	36.89	601.33	30.01	42.42	
Magnesium	167.47	13.77	16.75	142.62	11.73	16.58	
Potassium	105.57	2.70	3.28	93.95	2.40	3.40	
Sodium	814.69	35.42	43.08	611.82	26.60	37.60	
TOTAL		82.23	100		70.74	100	
Boron	0.85			0.61			
Iron	0.74			0.29			
Manganese	3.53			1.91			
Copper	0.03			0.02			
Zinc	0.04			0.03			
Aluminum	1.30			0.43			
Ammonium (NH ₄ -N)	1.8			2.0			
ESP (calculated)	8.98			6.83			
SAR (calculated)	7.54			5.82			

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Lab Number	0029			0030			
Description	GREEN			GREEN			
	1			7			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1430			1518			
Chloride	316			341			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	173.27			175.71			
Sulfur	185.91			199.31			
Phosphorus	0.62			0.59			
Calcium	153.78	7.67	25.49	151.52	7.56	23.82	
Magnesium	50.31	4.14	13.74	50.56	4.16	13.10	
Potassium	34.59	0.88	2.94	36.10	0.92	2.91	
Sodium	400.32	17.41	57.82	439.26	19.10	60.17	
TOTAL		30.10	100		31.74	100	
Boron	0.62			0.65			
Iron	0.30			0.29			
Manganese	0.73			1.04			
Copper	0.05			0.03			
Zinc	0.06			0.06			
Aluminum	0.52			0.52			
Ammonium (NH ₄ -N)	< 0.5			< 0.5			
ESP (calculated)	8.51			9.40			
SAR (calculated)	7.16			7.89			

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Lab Number	0031			0032			
Description	GREEN			GREEN			
	16			18			
pH	7.9			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1937			1311			
Chloride	587			273			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	141.54			214.76			
Sulfur	303.05			165.32			
Phosphorus	0.58			0.38			
Calcium	255.55	12.75	29.01	156.06	7.79	26.75	
Magnesium	81.24	6.68	15.20	50.54	4.16	14.27	
Potassium	47.60	1.22	2.77	36.26	0.93	3.19	
Sodium	536.18	23.31	53.03	373.62	16.24	55.79	
TOTAL		43.96	100		29.12	100	
Boron	0.66			0.51			
Iron	0.20			0.29			
Manganese	1.01			1.84			
Copper	0.05			0.04			
Zinc	0.06			0.05			
Aluminum	0.42			0.50			
Ammonium (NH4-N)	< 0.5			1.2			
ESP (calculated)	8.90			7.87			
SAR (calculated)	7.48			6.65			

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Lab Number	0033			0034			
Description	TEE			TEE			
	1			7			
pH	8.0			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	2634			1690			
Chloride	734			366			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	187.91			251.36			
Sulfur	474.84			220.46			
Phosphorus	1.22			1.50			
Calcium	424.22	21.17	32.63	171.02	8.53	22.83	
Magnesium	130.55	10.74	16.55	59.14	4.86	13.01	
Potassium	68.55	1.75	2.70	48.43	1.24	3.31	
Sodium	717.81	31.21	48.11	523.04	22.74	60.84	
TOTAL		64.87	100		37.38	100	
Boron	0.94			0.65			
Iron	0.18			0.34			
Manganese	0.93			0.41			
Copper	0.04			0.06			
Zinc	0.04			0.04			
Aluminum	0.20			0.41			
Ammonium (NH ₄ -N)	1.1			< 0.5			
ESP (calculated)	9.31			10.47			
SAR (calculated)	7.81			8.79			

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Lab Number	0035			0036			
Description	TEE			TEE			
	16			18			
pH	8.1			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1788			1088			
Chloride	377			207			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	305.05			268.44			
Sulfur	233.34			114.83			
Phosphorus	1.21			1.39			
Calcium	197.39	9.85	25.05	115.69	5.77	24.75	
Magnesium	68.95	5.67	14.42	38.66	3.18	13.63	
Potassium	48.08	1.23	3.13	35.92	0.92	3.94	
Sodium	519.22	22.57	57.41	309.49	13.46	57.68	
TOTAL		39.32	100		23.33	100	
Boron	0.60			0.46			
Iron	0.35			0.20			
Manganese	1.01			0.43			
Copper	0.04			0.05			
Zinc	0.06			0.07			
Aluminum	0.52			0.20			
Ammonium (NH ₄ -N)	1.1			1.6			
ESP (calculated)	9.66			7.51			
SAR (calculated)	8.10			6.36			

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