

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Chimera Golf Club at Tuscany
Henderson, NV

File Number: 57067
Date Received: 6/21/2018
Date Reported: 6/25/2018

Submitted By: Soil and Water Consulting

Lab Number	0044			0045			
Description	FAIRWAY			FAIRWAY			
	1			7			
pH	7.7			7.9			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	2796			2605			
Chloride	345			311			
Nitrate (NO3-N)	46.4			9.6			
Bicarbonate	239.16			209.87			
Sulfur	552.47			520.10			
Phosphorus	13.17			3.40			
Calcium	565.99	28.24	44.25	547.04	27.30	45.82	
Magnesium	114.63	9.43	14.77	111.75	9.19	15.43	
Potassium	79.54	2.03	3.19	79.40	2.03	3.41	
Sodium	554.89	24.13	37.80	484.37	21.06	35.35	
TOTAL		63.83	100		59.58	100	
Boron	0.66			0.62			
Iron	0.28			0.34			
Manganese	0.44			0.52			
Copper	0.14			0.13			
Zinc	0.03			0.03			
Aluminum	0.37			0.51			
Ammonium (NH4-N)	3.2			3.3			
ESP (calculated)	6.49			5.67			
SAR (calculated)	5.56			4.93			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0046			0047			
Description	FAIRWAY			FAIRWAY			
	16			18			
pH	7.9			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	3444			1649			
Chloride	695			220			
Nitrate (NO ₃ -N)	< 0.5			5.4			
Bicarbonate	246.48			219.64			
Sulfur	658.49			275.70			
Phosphorus	3.05			3.03			
Calcium	575.31	28.71	38.03	261.75	13.06	37.16	
Magnesium	144.98	11.92	15.79	62.95	5.18	14.73	
Potassium	110.26	2.82	3.74	66.13	1.69	4.81	
Sodium	736.93	32.04	42.44	349.98	15.22	43.29	
TOTAL		75.49	100		35.15	100	
Boron	1.02			0.53			
Iron	0.35			1.38			
Manganese	1.98			0.43			
Copper	0.09			0.09			
Zinc	0.06			0.04			
Aluminum	0.38			2.01			
Ammonium (NH ₄ -N)	4.3			3.4			
ESP (calculated)	8.45			5.81			
SAR (calculated)	7.11			5.04			

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Lab Number	0048			0049			
Description	GREEN			GREEN			
	1			7			
pH	8.0			7.9			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1476			1443			
Chloride	340			330			
Nitrate (NO3-N)	0.5			< 0.5			
Bicarbonate	148.86			151.30			
Sulfur	178.37			174.10			
Phosphorus	6.69			4.04			
Calcium	148.87	7.43	26.27	135.67	6.77	24.84	
Magnesium	44.06	3.62	12.81	40.25	3.31	12.15	
Potassium	37.58	0.96	3.40	33.72	0.86	3.17	
Sodium	374.08	16.26	57.52	375.06	16.31	59.84	
TOTAL		28.28	100		27.25	100	
Boron	0.58			0.60			
Iron	0.58			0.48			
Manganese	0.70			0.55			
Copper	0.14			0.12			
Zinc	0.05			0.06			
Aluminum	0.99			0.79			
Ammonium (NH4-N)	1.0			1.1			
ESP (calculated)	8.21			8.64			
SAR (calculated)	6.92			7.26			

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Lab Number	0050			0051			
Description	GREEN			GREEN			
	16			18			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1456			1154			
Chloride	324			255			
Nitrate (NO3-N)	< 0.5			0.9			
Bicarbonate	146.42			136.66			
Sulfur	176.64			139.93			
Phosphorus	3.79			1.59			
Calcium	135.07	6.74	24.73	111.22	5.55	25.60	
Magnesium	37.68	3.10	11.37	32.46	2.67	12.31	
Potassium	36.82	0.94	3.45	29.97	0.77	3.53	
Sodium	378.97	16.48	60.45	292.05	12.70	58.56	
TOTAL		27.26	100		21.68	100	
Boron	0.56			0.42			
Iron	0.53			0.93			
Manganese	0.65			0.21			
Copper	0.11			0.10			
Zinc	0.07			0.06			
Aluminum	0.95			1.48			
Ammonium (NH4-N)	1.1			1.5			
ESP (calculated)	8.84			7.39			
SAR (calculated)	7.43			6.26			

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Lab Number	0052			0053			
Description	TEE			TEE			
	1			7			
pH	8.1			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1801			1649			
Chloride	330			348			
Nitrate (NO ₃ -N)	0.6			< 0.5			
Bicarbonate	300.17			248.92			
Sulfur	251.61			191.38			
Phosphorus	3.37			3.62			
Calcium	220.73	11.01	30.05	184.55	9.21	27.75	
Magnesium	63.85	5.25	14.33	55.67	4.58	13.80	
Potassium	65.14	1.67	4.54	55.28	1.41	4.26	
Sodium	430.67	18.72	51.08	413.67	17.99	54.19	
TOTAL		36.66	100		33.19	100	
Boron	0.77			0.71			
Iron	0.64			0.77			
Manganese	0.36			0.47			
Copper	0.18			0.11			
Zinc	0.08			0.05			
Aluminum	0.65			0.88			
Ammonium (NH ₄ -N)	4.8			3.2			
ESP (calculated)	7.77			8.13			
SAR (calculated)	6.57			6.85			

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Lab Number	0054			0055			
Description	TEE			TEE			
	16			18			
pH	8.2			8.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1352			1053			
Chloride	282			214			
Nitrate (NO ₃ -N)	< 0.5			0.7			
Bicarbonate	263.56			229.40			
Sulfur	151.91			109.60			
Phosphorus	3.67			2.94			
Calcium	125.45	6.26	24.28	101.80	5.08	25.16	
Magnesium	36.98	3.04	11.79	29.63	2.44	12.07	
Potassium	42.11	1.08	4.18	34.34	0.88	4.35	
Sodium	354.36	15.41	59.75	271.33	11.80	58.42	
TOTAL		25.79	100		20.19	100	
Boron	0.59			0.44			
Iron	0.52			0.76			
Manganese	0.18			0.13			
Copper	0.11			0.11			
Zinc	0.06			0.06			
Aluminum	0.64			0.93			
Ammonium (NH ₄ -N)	2.5			2.1			
ESP (calculated)	8.49			7.16			
SAR (calculated)	7.14			6.09			

* Soluble Salts: mmhos/cm = ppm / 640