

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Iron Wolf Golf & Country Club
3275 N Latrobe Drive
Lake Havasu City, AZ 86404

File Number: 56022
Date Received: 10/08/2015
Date Reported: 10/12/2015

Submitted By: Soil and Water Consulting

Lab Number	0053			0054			
Description	FAIRWAY			FAIRWAY			
	1			6			
pH	8.3			8.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1338			1766			
Chloride	267			490			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	312.37			266.00			
Sulfur	100.50			159.10			
Phosphorus	1.77			1.32			
Calcium	42.44	2.12	10.61	78.24	3.90	13.25	
Magnesium	15.36	1.26	6.33	25.26	2.08	7.05	
Potassium	34.91	0.89	4.47	33.85	0.87	2.94	
Sodium	360.80	15.69	78.59	520.40	22.63	76.77	
TOTAL		19.96	100		29.47	100	
Boron	0.53			0.60			
Iron	< 0.01			< 0.01			
Manganese	0.07			0.11			
Copper	0.20			0.13			
Zinc	0.03			0.02			
Aluminum	0.93			0.48			
Ammonium (NH4-N)	29.4			2.4			
ESP (calculated)	14.19			15.28			
SAR (calculated)	12.07			13.08			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0055			0056			
Description	GREEN			GREEN			
	1			6			
pH	8.4			8.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	849			1251			
Chloride	199			286			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	239.16			317.25			
Sulfur	57.26			77.63			
Phosphorus	3.26			3.77			
Calcium	39.37	1.96	12.87	23.46	1.17	6.86	
Magnesium	11.97	0.98	6.45	10.21	0.84	4.92	
Potassium	18.25	0.47	3.06	33.59	0.86	5.03	
Sodium	272.40	11.84	77.62	326.70	14.20	83.19	
TOTAL		15.26	100		17.07	100	
Boron	0.38			0.45			
Iron	< 0.01			< 0.01			
Manganese	0.10			0.12			
Copper	0.10			0.19			
Zinc	0.02			0.04			
Aluminum	0.60			0.92			
Ammonium (NH4-N)	17.4			16.9			
ESP (calculated)	11.60			16.41			
SAR (calculated)	9.75			14.17			

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Lab Number	0057			0058			
Description	TEE			TEE			
	1			6			
pH	8.3			8.4			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	3622			1280			
Chloride	1098			305			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	385.58			278.21			
Sulfur	299.60			106.70			
Phosphorus	1.40			1.26			
Calcium	133.40	6.66	10.06	56.08	2.80	12.50	
Magnesium	55.42	4.56	6.89	18.32	1.51	6.73	
Potassium	80.71	2.06	3.12	30.24	0.77	3.46	
Sodium	1217.00	52.91	79.94	398.00	17.30	77.31	
TOTAL		66.19	100		22.38	100	
Boron	1.18			0.52			
Iron	< 0.01			< 0.01			
Manganese	0.21			0.04			
Copper	0.11			0.08			
Zinc	0.02			0.01			
Aluminum	0.23			0.43			
Ammonium (NH4-N)	17.4			17.3			
ESP (calculated)	24.07			13.89			
SAR (calculated)	22.35			11.79			

* Soluble Salts: mmhos/cm = ppm / 640