

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: 11/16/2012
Date Reported: 11/20/2012

Submitted By: Soil and Water Consulting

Lab Number	0001			0002			
Description	FAIRWAY			FAIRWAY			
	2			11			
pH	7.3			7.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	662			606			
Chloride	290			179			
Nitrate (NO3-N)	12.9			4.2			
Bicarbonate	102.50			117.14			
Sulfur	49.44			62.35			
Phosphorus	0.76			0.81			
Calcium	41.40	2.07	19.63	10.07	0.50	5.52	
Magnesium	11.25	0.93	8.79	6.97	0.57	6.30	
Potassium	14.48	0.37	3.52	22.08	0.56	6.20	
Sodium	164.80	7.17	68.07	171.70	7.47	81.98	
TOTAL		10.53	100		9.11	100	
Boron	0.28			0.52			
Iron	0.27			0.78			
Manganese	0.04			0.08			
Copper	0.03			0.05			
Zinc	0.10			0.11			
Aluminum	0.80			1.27			
Ammonium (NH4-N)	1.2			< 0.5			
ESP (calculated)	6.87			12.09			
SAR (calculated)	5.86			10.18			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0003			0004			
Description	GREEN			GREEN			
	2			11			
pH	8.0			8.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	413			595			
Chloride	88			267			
Nitrate (NO3-N)	4.0			6.1			
Bicarbonate	80.53			100.06			
Sulfur	34.62			52.41			
Phosphorus	2.34			2.69			
Calcium	17.81	0.89	14.19	24.72	1.23	13.14	
Magnesium	4.84	0.40	6.36	8.70	0.72	7.62	
Potassium	12.44	0.32	5.08	14.32	0.37	3.90	
Sodium	107.10	4.66	74.36	162.60	7.07	75.33	
TOTAL		6.26	100		9.38	100	
Boron	0.27			0.35			
Iron	3.08			0.03			
Manganese	0.10			0.07			
Copper	0.03			0.05			
Zinc	0.07			0.08			
Aluminum	4.91			0.19			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	6.80			8.51			
SAR (calculated)	5.80			7.16			

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Lab Number	0005			0006			
Description	TEE			TEE			
	2			11			
pH	8.0			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	565			557			
Chloride	318			246			
Nitrate (NO3-N)	4.0			4.3			
Bicarbonate	112.26			134.22			
Sulfur	40.77			39.12			
Phosphorus	1.77			1.12			
Calcium	28.44	1.42	15.57	15.04	0.75	8.79	
Magnesium	9.27	0.76	8.36	7.51	0.62	7.23	
Potassium	13.27	0.34	3.72	16.52	0.42	4.95	
Sodium	151.70	6.60	72.35	155.30	6.75	79.04	
TOTAL		9.12	100		8.54	100	
Boron	0.37			0.44			
Iron	1.98			0.52			
Manganese	0.11			0.08			
Copper	0.03			0.02			
Zinc	0.08			0.09			
Aluminum	4.03			0.83			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	7.45			9.73			
SAR (calculated)	6.32			8.16			

* Soluble Salts: mmhos/cm = ppm / 640