

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

The Summit
Las Vegas, NV

File Number: 73668
Date Received: 2/9/2017
Date Reported: 2/10/2017

Submitted By: Soil and Water Consulting

Lab Number	0006			0007			
Description	GREEN			GREEN			
	3			12			
pH	7.7			7.5			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	723			612			
Chloride	64			51			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	324.57			317.25			
Sulfur	47.29			33.81			
Phosphorus	6.52			6.38			
Calcium	129.30	6.45	47.12	108.92	5.44	46.46	
Magnesium	37.55	3.09	22.55	31.51	2.59	22.15	
Potassium	58.83	1.50	10.99	61.70	1.58	13.49	
Sodium	60.93	2.65	19.35	48.16	2.09	17.90	
TOTAL		13.69	100		11.70	100	
Boron	0.37			0.42			
Iron	0.36			0.30			
Manganese	1.97			0.87			
Copper	0.14			0.15			
Zinc	0.05			0.05			
Aluminum	0.35			0.28			
Ammonium (NH4-N)	2.8			2.2			
ESP (calculated)	0.53			0.28			
SAR (calculated)	1.21			1.05			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0008
Description	GREEN
	15

pH	7.6
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	630					
Chloride	52					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	348.98					

Sulfur	37.98					
Phosphorus	3.84					
Calcium	103.53	5.17	47.75			
Magnesium	29.71	2.44	22.59			
Potassium	45.79	1.17	10.83			
Sodium	46.86	2.04	18.83			
TOTAL		10.82	100			

Boron	0.31
Iron	0.23
Manganese	0.72
Copper	0.12
Zinc	0.03
Aluminum	0.22
Ammonium (NH ₄ -N)	0.6

ESP (calculated)	0.28
SAR (calculated)	1.04

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Lab Number	0009
Description	JEAN MATERIAL FAIRWAY #15

pH	8.1
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	762					
Chloride	166					
Nitrate (NO ₃ -N)	4.8					
Bicarbonate	168.39					

Sulfur	53.11					
Phosphorus	1.07					
Calcium	103.25	5.15	41.96			
Magnesium	32.35	2.66	21.66			
Potassium	16.64	0.43	3.47			
Sodium	92.95	4.04	32.91			
TOTAL		12.28	100			

Boron	0.15
Iron	0.22
Manganese	< 0.01
Copper	0.04
Zinc	< 0.01
Aluminum	0.59
Ammonium (NH ₄ -N)	0.8

ESP (calculated)	1.73
SAR (calculated)	2.04

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Lab Number 0010
Description NATIVE MATERIAL
FAIRWAY
#15

pH 8.0

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	620					
Chloride	130					
Nitrate (NO3-N)	8.2					
Bicarbonate	151.30					
Sulfur	46.52					
Phosphorus	7.53					
Calcium	81.90	4.09	40.88			
Magnesium	24.15	1.99	19.86			
Potassium	46.05	1.18	11.78			
Sodium	63.18	2.75	27.48			
TOTAL		10.00	100			

Boron	0.14
Iron	0.38
Manganese	< 0.01
Copper	0.06
Zinc	< 0.01
Aluminum	0.82
Ammonium (NH4-N)	1.0

ESP (calculated)	1.05
SAR (calculated)	1.58

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Lab Number	0011			0012			
Description	GREEN SURROUND			GREEN SURROUND			
	#15			#15			
	DARKER 2X			LIGHTER 1X			
pH	8.1			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	261			197			
Chloride	22			24			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	131.78			82.97			
Sulfur	17.94			13.14			
Phosphorus	4.22			3.52			
Calcium	34.66	1.73	42.09	22.77	1.14	39.80	
Magnesium	11.90	0.98	23.82	7.39	0.61	21.29	
Potassium	16.07	0.41	10.00	8.87	0.23	7.95	
Sodium	22.77	0.99	24.09	20.32	0.88	30.96	
TOTAL		4.11	100		2.85	100	
Boron	0.13			0.09			
Iron	0.57			0.50			
Manganese	0.02			< 0.01			
Copper	0.05			0.02			
Zinc	< 0.01			< 0.01			
Aluminum	1.04			1.00			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	< .01			0.14			
SAR (calculated)	0.85			0.95			

* Soluble Salts: mmhos/cm = ppm / 640