

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Ramblewood Country Club
200 Country Club Pkwy
Mount Laurel, NJ

File Number: 76006
Date Received: 5/1/2017
Date Reported: 5/3/2017

Submitted By: Soil and Water Consulting

Lab Number	0024			0025			
Description	BLUE COURSE			BLUE COURSE			
	TEE			FAIRWAY			
	2			2			
pH	8.0			7.8			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	129			148			
Chloride	18			11			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	70.77			87.85			
Sulfur	9.12			10.54			
Phosphorus	1.32			1.23			
Calcium	19.18	0.96	46.71	23.71	1.18	49.38	
Magnesium	5.77	0.47	23.14	5.64	0.46	19.36	
Potassium	12.62	0.32	15.76	18.24	0.47	19.46	
Sodium	6.78	0.29	14.40	6.50	0.28	11.80	
TOTAL		2.05	100		2.40	100	
Boron	0.05			0.05			
Iron	1.92			2.12			
Manganese	0.19			0.07			
Copper	0.16			0.08			
Zinc	0.06			0.02			
Aluminum	0.81			0.95			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.35			0.31			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0026
Description	BLUE COURSE
	GREEN
	2

pH	6.4
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	259					
Chloride	10					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	51.25					

Sulfur	58.67					
Phosphorus	0.68					
Calcium	39.36	1.96	52.81			
Magnesium	9.33	0.77	20.62			
Potassium	26.33	0.67	18.11			
Sodium	7.24	0.31	8.46			
TOTAL		3.72	100			

Boron	0.04
Iron	0.46
Manganese	0.43
Copper	0.04
Zinc	0.09
Aluminum	0.29
Ammonium (NH ₄ -N)	0.7

ESP (calculated)	< .01
SAR (calculated)	0.27

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Lab Number	0027			0028			
Description	RED COURSE			RED COURSE			
	TEE			FAIRWAY			
	2			2			
pH	6.8			7.3			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	232			106			
Chloride	25			12			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	92.74			53.69			
Sulfur	25.39			8.38			
Phosphorus	1.15			1.09			
Calcium	34.37	1.72	45.61	16.63	0.83	45.55	
Magnesium	11.62	0.96	25.41	4.02	0.33	18.15	
Potassium	18.38	0.47	12.50	12.29	0.31	17.25	
Sodium	14.25	0.62	16.47	7.99	0.35	19.06	
TOTAL		3.76	100		1.82	100	
Boron	0.07			0.05			
Iron	1.58			1.97			
Manganese	0.31			0.06			
Copper	0.08			0.08			
Zinc	0.05			< 0.01			
Aluminum	0.55			1.13			
Ammonium (NH4-N)	0.7			< 0.5			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.54			0.46			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0029
Description	RED COURSE
	GREEN
	2

pH	7.0
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	334					
Chloride	7					
Nitrate (NO3-N)	< 0.5					
Bicarbonate	39.05					
Sulfur	84.38					
Phosphorus	0.51					
Calcium	62.59	3.12	59.77			
Magnesium	14.29	1.17	22.49			
Potassium	20.45	0.52	10.01			
Sodium	9.29	0.40	7.73			
TOTAL		5.22	100			
Boron	0.05					
Iron	0.63					
Manganese	0.81					
Copper	0.07					
Zinc	0.12					
Aluminum	0.47					
Ammonium (NH4-N)	0.9					
ESP (calculated)	< .01					
SAR (calculated)	0.28					

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0030			0031			
Description	WHITE COURSE			WHITE COURSE			
	TEE			FAIRWAY			
	2			2			
pH	7.0			7.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	159			369			
Chloride	16			27			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	63.45			82.97			
Sulfur	19.44			70.37			
Phosphorus	0.41			0.32			
Calcium	23.31	1.16	45.95	66.01	3.29	54.81	
Magnesium	7.92	0.65	25.72	16.78	1.38	22.97	
Potassium	7.40	0.19	7.47	23.91	0.61	10.18	
Sodium	12.14	0.53	20.85	16.64	0.72	12.04	
TOTAL		2.53	100		6.01	100	
Boron	0.05			0.05			
Iron	3.09			1.10			
Manganese	0.10			0.63			
Copper	0.07			0.04			
Zinc	0.03			0.02			
Aluminum	1.09			0.31			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.55			0.47			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0032
Description	WHITE COURSE GREEN 2

pH	7.1
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	456					
Chloride	15					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	68.33					
Sulfur	110.56					
Phosphorus	0.36					
Calcium	81.40	4.06	51.30			
Magnesium	25.68	2.11	26.67			
Potassium	39.44	1.01	12.74			
Sodium	16.91	0.74	9.29			
TOTAL		7.92	100			
Boron	0.12					
Iron	0.82					
Manganese	0.83					
Copper	0.07					
Zinc	0.07					
Aluminum	0.05					
Ammonium (NH ₄ -N)	< 0.5					
ESP (calculated)	< .01					
SAR (calculated)	0.42					

* Soluble Salts: mmhos/cm = ppm / 640