

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Back Creek Golf Club
101 Back Creek Road
Middletown, DE

File Number: 90089
Date Received: 5/13/2024
Date Reported: 5/14/2024

Submitted By: Soil and Water Consulting

Lab Number	0052			0053			
Description	TEE			TEE			
	3			10			
pH	7.8			7.6			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	330			333			
Chloride	23			23			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	64.00			56.33			
Sulfur	47.67			52.80			
Phosphorus	0.80			1.13			
Calcium	28.03	1.40	28.25	26.48	1.32	27.15	
Magnesium	9.34	0.77	15.51	10.01	0.82	16.91	
Potassium	86.08	2.20	44.46	86.01	2.20	45.20	
Sodium	13.41	0.58	11.77	12.02	0.52	10.74	
TOTAL		4.95	100		4.87	100	
Boron	0.04			0.04			
Iron	3.12			6.66			
Manganese	0.48			0.11			
Copper	0.09			0.09			
Zinc	0.06			0.05			
Aluminum	4.84			9.16			
Ammonium (NH4-N)	3.2			4.5			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.56			0.50			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0054			0055			
Description	FAIRWAY			FAIRWAY			
	3			10			
pH	7.7			7.6			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	176			143			
Chloride	30			27			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	37.03			29.30			
Sulfur	14.79			10.47			
Phosphorus	0.45			0.60			
Calcium	23.33	1.16	40.95	16.75	0.84	39.51	
Magnesium	7.38	0.61	21.34	5.79	0.48	22.50	
Potassium	23.65	0.60	21.28	14.62	0.37	17.67	
Sodium	10.74	0.47	16.43	9.89	0.43	20.32	
TOTAL		2.84	100		2.12	100	
Boron	0.03			0.04			
Iron	4.47			9.88			
Manganese	0.43			0.28			
Copper	0.04			0.04			
Zinc	0.04			0.05			
Aluminum	7.97			19.87			
Ammonium (NH4-N)	< 0.5			< 0.5			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.50			0.53			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0056			0057			
Description	GREEN			GREEN			
	3			10			
pH	7.9			7.6			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	400			441			
Chloride	16			13			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	68.92			38.84			
Sulfur	80.12			97.07			
Phosphorus	0.39			0.43			
Calcium	66.74	3.33	48.51	61.69	3.08	42.31	
Magnesium	24.40	2.01	29.23	25.14	2.07	28.41	
Potassium	38.17	0.98	14.22	63.05	1.61	22.16	
Sodium	12.70	0.55	8.04	11.93	0.52	7.13	
TOTAL		6.87	100		7.28	100	
Boron	0.08			0.06			
Iron	0.57			0.74			
Manganese	1.89			1.54			
Copper	0.06			0.04			
Zinc	0.04			0.05			
Aluminum	1.69			2.20			
Ammonium (NH4-N)	3.5			4.0			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.34			0.32			

* Soluble Salts: mmhos/cm = ppm / 640