



Client: Braemar Country Club
Fall 2023 Report

	10/18/23
Humidity/Air Temperature	50%/90°
Greens Temperature (avg)	61.73

US OPEN GREENS	Acceptable Range For Tissue Sample	9 10/18/23	Main Range 10/18/23
Nitrogen	3.0%-6.5%	6.16	3.52
Phosphorus	0.2%-0.55%	0.84	0.54
Potassium	0.86%-2.55%	2.42	2.70
Calcium	0.21%-0.50%	0.57	0.62
Magnesium	0.09%-0.22%	0.33	0.24
Sodium	506- 2264 ppm	1,651.90	773.10

90/10 GREENS-MIX	Acceptable Range For Alkaline Soils Sample	WCS&G 6/7/23	Main Range 10/18/23	Green 1 10/18/23	Green 5 10/18/23
Organic Matter (Humus)	2 - 3%	0.75	1.03	0.85	n/r
Sulfur	12 - 16 ppm	15.00	9.00	14.00	47.00
Olsen - Phosphorus	13 - 20 ppm	<1	4.00	5.00	20.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,186.00	2,088.00	1,894.00	4,524.00
Magnesium	>7% base saturation or at least 200 lbs/acre	10.79%/172	16.35%/272	10.12%/144	11.94%/420
Potassium - TEC of 0 - 35	150 ppm	35.00	91.00	107.00	271.00
Manganese	3-5 ppm	1.00	12.00	17.00	34.00

	WCS&G 90/10 6-2023	WCS&G 90/10 10-203	USGA Recommendations
Silt and Clay	2.40	1.80	<= 8.0%
Sand	97.60	98.10	94 - 100%
Gravel	0.00	0.10	
Organic Material	0.75	0.57	
<u>Sieve #:</u>			
Fine Gravel 10	0.00	0.10	2.0mm <= 3.0%
Very Coarse Sand 18	6.70	7.60	2.0mm + 1.0mm <= 10%
Coarse Sand 35	44.20	45.00	
Medium Sand 60	35.10	34.70	0.5mm + 0.25mm >= 60%
Fine Sand 100	8.90	8.00	0.15mm <= 20%
Very Fine Sand 140	1.90	2.10	0.106mm + 0.053mm <= 5.0%
Very Fine Sand 270	0.80	0.70	
Saturated Hydraulic Conductivity in/hr	5.7"	7.8"	Greater than 6" per hour
Coefficient of Uniformity	3.04	2.95	1.8 to 3.5 for peat and sand mixes
Recommended Depth	10.63"	7.87"	

Soils Nutrient Deficiencies

		P	K	Mn
US OPEN	GREEN	5	107	17
US OPEN	GREEN	20	271	34
RANGE	MAIN	4	91	12

Plant Nutrient Concerns

			N
US OPEN	GREEN	9	6.16
RANGE	MAIN		3.52

Magnesium can be added in the form of Pro-Mag 36 at a rate of 3 pounds of product per 1,000 sq ft one time.

Potassium can be added in the form of 0-0-50 at a rate of 2 pounds of product per 1,000 sq ft monthly through Winter.

Phosphorus can be added in the form of 11-55-00 at a rate of 3 pounds of product per 1,000 sq ft

Manganese can be added in the form of Manganese Oxide at a rate of 3 pounds of product per 1,000 sq ft

Comments

- On page 1, the red numbers indicate deficiencies that need to be addressed with the greens as the grow-in continues
- The nitrogen levels on the Range Main Green are good. Notice the difference between that and Green 9. As you apply grow-in nitrogen, you should keep it under 6% on a tissue sample. Above that, disease is more likely. However, it does ebb, and flow based on recent applications and the Anderson's program is very aggressive with regards to Nitrogen
- Manganese and Phosphorus levels just require diligence in the beginning and eventually you will not be "chasing" those nutrient
- Note Green 5 soil sample was slightly compromised due to fertilizer application that day. It does give some insight as to what those products do in the soil

