



Client: Braemar Country Club
Spring 2024 Report

<u>3/19/24</u>	
Humidity/Air Temperature	30%/75°
Greens Temperature	(avg)49°
Fairway Temperature	(avg)52°

WATER	Acceptable Range For Water Sample	US Open Hole #1 3/19/24
EC	<2.25 mmhos/cm	1.81
Sodium		104.30
Calcium	20 - 60 ppm	213.17
Magnesium	10 - 25 ppm	82.53
Potassium	5 - 20 ppm	6.97
Sulfur	30 - 90 ppm	606.97
Bicarbonate	<120 ppm	373.33
Boron	<0.67 ppm	0.47
Chloride	<177 ppm	151.49

US OPEN GREEN	Acceptable Range For Tissue Sample	8 3/19/24
Nitrogen	3.0%-6.5%	5.56
Phosphorus	0.2%-0.55%	0.54
Potassium	0.86%-2.55%	2.82
Calcium	0.21%-0.50%	0.65
Magnesium	0.09%-0.22%	0.29
Sodium	506- 2264 ppm	1,107.20

US OPEN TEES	Acceptable Range For Alkaline Soils Sample	2,6(avg) 3/19/24
Organic Matter (Humus)	2 - 3%	0.80
Sulfur	12 - 16 ppm	56.50
Olsen - Phosphorus	13 - 20 ppm	6.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,485.00
Magnesium	>7% base saturation or at least 200 lbs/acre	17.59%/342
Potassium - TEC of 0 - 35	100 ppm	48.50
Manganese	50-80 ppm	33.50

US OPEN FAIRWAYS	Acceptable Range For Alkaline Soils Sample	2,6(avg) 3/19/24
Organic Matter (Humus)	2 - 3%	6.71
Sulfur	12 - 16 ppm	76.00
Olsen - Phosphorus	13 - 20 ppm	67.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	5,415.00
Magnesium	>7% base saturation or at least 200 lbs/acre	18.44%/840
Potassium - TEC of 0 - 35	100 ppm	229.50
Manganese	50-80 ppm	18.00

US OPEN GREENS	Acceptable Range For Alkaline Soils Sample	Range,2,6,8(avg) 3/19/24
Organic Matter (Humus)	2 - 3%	0.69
Sulfur	12 - 16 ppm	14.50
Olsen - Phosphorus	13 - 20 ppm	2.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,585.00
Magnesium	>7% base saturation or at least 200 lbs/acre	12.79%/152
Potassium - TEC of 0 - 35	150 ppm	44.00
Manganese	50-80 ppm	15.00

US OPEN TEE	Acceptable Range For Saturated Paste Sample	3/19/24
Nitrate - Bermudagrass	10-15 ppm	n/r
Phosphorus	2 - 10 ppm	n/r
Potassium	40 - 100 ppm	n/r
Calcium	60 - 200 ppm	n/r
Magnesium	20 - 70 ppm	n/r
Sodium	0 - 30 ppm	n/r
Soluble Salts	<1,920 ppm	n/r
Bicarbonate	<60 ppm	n/r
Chloride	<1,000 ppm	n/r
SAR	<4%	n/r

US OPEN FAIRWAY	Acceptable Range For Saturated Paste Sample	2 3/19/24
Nitrate - Bermudagrass	10-15 ppm	<0.5
Phosphorus	2 - 10 ppm	1.33
Potassium	40 - 100 ppm	21.10
Calcium	60 - 200 ppm	159.52
Magnesium	20 - 70 ppm	39.47
Sodium	0 - 30 ppm	57.16
Soluble Salts	<1,920 ppm	637.00
Bicarbonate	<60 ppm	110.33
Chloride	<1,000 ppm	21.00
SAR	<4%	1.05

US OPEN GREEN	Acceptable Range For Saturated Paste Sample	Range 3/19/24
Nitrate - Bentgrass/Poa	1-3 ppm	<0.5
Phosphorus	2 - 7 ppm	2.55
Potassium	25-40 ppm	10.79
Calcium	50- 75 ppm	25.16
Magnesium	15-30 ppm	6.35
Sodium	0 - 30 ppm	7.78
Soluble Salts	<1,000 ppm	140.00
Bicarbonate	<60 ppm	71.19
Chloride	<200 ppm	8.00
SAR	<4%	0.36

Nutrient Deficiencies

		P	Mg	K	Mn
US OPEN	TEE	7	356	53	39
US OPEN	FAIRWAY	65	820	237	19
US OPEN	GREEN	< 2	162	39	12
US OPEN	GREEN	2	140	36	11
US OPEN	GREEN	< 2	150	64	19

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

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

- This was my first visit to the course in Spring. So, you won't see any comparisons to previous years. Adding the Spring sample collection will give you another set of data.
- I expected the greens and tees on the US Open Course to be very lean with regards to nutrients. So, don't be surprised that the recommendations for the greens are like the ones I gave in October. Prioritize the monthly applications of 0-0-50.
- All new tees, based on the tee mix you are using, will need to be amended and fertilized like the greens until the bermudagrass has produced some more OM.
- Over the previous 2 years, I have been involved in multiple similar projects to yours. What I saw during our ride around on US Open was A+ work, on your part! The "mat" on the new fairways was excellent and the greens are in very good shape for root depth and mass. You made a series of good decisions that will make for a good Summer as you turn your thoughts to the next 9 holes.