



Client: The Summit Club

Fall 2024 Report

	<u>9/20/21</u>	<u>10/2/24</u>
Humidity/Air Temperature	10%/88°	11%/96°
Greens Temperature	(avg)67.6 °	(avg)73.5°
Fairway Temperature	(avg)68.4°	(avg)76°

WATER	Acceptable Range For Water Sample	Hole #2 9/20/21	Hole #11 10/2/24
EC	<2.25 mmhos/cm	0.85	0.93
Sodium		82.35	87.05
Calcium	20 - 60 ppm	65.98	72.31
Magnesium	10 - 25 ppm	22.73	22.40
Potassium	5 - 20 ppm	4.42	4.13
Sulfur	30 - 90 ppm	191.70	204.57
Bicarbonate	<120 ppm	184.30	183.03
Boron	<0.67 ppm	0.12	0.13
Chloride	<177 ppm	85.27	90.38



SOIL AND WATER CONSULTING

TEE	Acceptable Range For Tissue Sample	11 10/2/24
Nitrogen	3.34%-5.10%	4.67
Phosphorus	0.35% - 0.55%	0.33
Potassium	2.0% - 3.42%	1.18
Calcium	0.25%-0.5%	0.43
Magnesium	0.16%-0.32%	0.20
Sodium	229-1107 ppm	1,169.00

FAIRWAY	Acceptable Range For Tissue Sample	11 10/2/24
Nitrogen	3.34%-5.10%	4.86
Phosphorus	0.35% - 0.55%	0.25
Potassium	2.0% - 3.42%	0.64
Calcium	0.25%-0.5%	0.38
Magnesium	0.16%-0.32%	0.14
Sodium	229-1107 ppm	845.60

GREENS	Acceptable Range For Tissue Sample	2,11(avg) 10/2/24
Nitrogen	3.0%-6.5%	3.94
Phosphorus	0.2%-0.55%	0.27
Potassium	0.86%-2.55%	0.97
Calcium	0.21%-0.50%	0.36
Magnesium	0.09%-0.22%	0.14
Sodium	506- 2264 ppm	775.65

TEES	Acceptable Range For Alkaline Soils Sample	2,11(avg) 9/20/21	2,11(avg) 10/2/24
Organic Matter (Humus)	2 - 3%	1.17	2.26
Sulfur	12 - 16 ppm	52.50	56.00
Olsen - Phosphorus	13 - 20 ppm	26.00	55.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,383.00	2,198.00
Magnesium	>7% base saturation or at least 200 lbs/acre	13.99%/271	17.61%/324
Potassium - TEC of 0 - 35	100 ppm	77.50	87.50
Manganese	>50 ppm	9.50	13.50

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	2,11(avg) 9/20/21	2,11(avg) 10/2/24
Organic Matter (Humus)	2 - 3%	1.24	1.40
Sulfur	12 - 16 ppm	72.00	97.50
Olsen - Phosphorus	13 - 20 ppm	33.50	41.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,356.00	2,536.00
Magnesium	>7% base saturation or at least 200 lbs/acre	13.36%/199	13.37%/273
Potassium - TEC of 0 - 35	100 ppm	90.00	120.00
Manganese	>50 ppm	8.50	8.50

GREENS	Acceptable Range For Alkaline Soils Sample	2,11(avg) 9/20/21	2,11(avg) 10/2/24
Organic Matter (Humus)	2 - 3%	1.07	1.09
Sulfur	12 - 16 ppm	75.00	35.00
Olsen - Phosphorus	13 - 20 ppm	13.50	12.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,537.00	2,007.00
Magnesium	>7% base saturation or at least 200 lbs/acre	16.60%/215	13.72%/215
Potassium - TEC of 0 - 35	150 ppm	62.50	57.00
Manganese	>50 ppm	19.00	49.50

TEES	Acceptable Range For Saturated Paste Sample	2 9/20/21	11 10/2/24
Nitrate-Ryegrass	10 -15 ppm	39.10	3.30
Phosphorus	2 - 10 ppm	6.72	3.88
Potassium	40 - 100 ppm	49.03	32.00
Calcium	60 - 200 ppm	92.95	60.34
Magnesium	20 - 70 ppm	31.93	20.53
Sodium	0 - 30 ppm	73.06	53.94
Soluble Salts	<1,920 ppm	660.00	444.00
Bicarbonate	<60 ppm	109.28	106.10
Chloride	<1,000 ppm	67.00	57.00
SAR	<4%	1.67	1.53

FAIRWAYS	Acceptable Range For Saturated Paste Sample	2 9/20/21	11 10/2/24
Nitrate-Ryegrass	10 -15 ppm	2.80	61.50
Phosphorus	2 - 10 ppm	6.25	5.44
Potassium	40 - 100 ppm	48.76	87.20
Calcium	60 - 200 ppm	90.71	93.44
Magnesium	20 - 70 ppm	27.07	29.96
Sodium	0 - 30 ppm	88.73	92.82
Soluble Salts	<1,920 ppm	667.00	1,039.00
Bicarbonate	<60 ppm	152.82	182.96
Chloride	<1,000 ppm	81.00	91.00
SAR	<4%	2.10	2.14

GREENS	Acceptable Range For Saturated Paste Sample	2,11(avg) 9/20/21	2,11(avg) 10/2/24
Nitrate - Dominator Bentgrass	1-3 ppm	0.90	4.60
Phosphorus	2 - 7 ppm	2.43	1.95
Potassium	25-40 ppm	41.43	22.04
Calcium	50- 75 ppm	80.51	48.03
Magnesium	15-30 ppm	30.94	13.47
Sodium	0 - 30 ppm	128.06	67.48
Soluble Salts	<1,000 ppm	835.00	421.50
Bicarbonate	<60 ppm	132.17	117.55
Chloride	<200 ppm	100.50	51.50
SAR	<4%	2.95	2.22



Nutrient Deficiencies

		K
GREEN	2	58
GREEN	11	56

Potassium can be added in the form of 0-0-50 at a rate of 2 pounds of product per 1,000 sq ft one time before Winter on Greens

Comments and Next Level Cultural Practices

- Manganese levels have reached the range that the greens should be in. It would not hurt to do one or two more if you have the product. If you don't have product, you can take a break from Manganese applications.
- The adjustments made to Tee #17 looked great! I did not even recognize the change.
- Recent gypsum and potash applications on greens from aerification, were helpful. I would recommend one more application of 0-0-50 prior to Christmas.

