



Client: Jumping Brook Country Club
Fall 2024 Report

	<u>10/7/21</u>	<u>9/7/24</u>
Humidity/Air Temperature	70%/72°	n/r
Greens Temperature	(avg)68.5°	n/r
Fairways Temperature	(avg)68.15°	n/r

WATER	Acceptable Range For Water Sample	Pond <u>10/7/21</u>	Pond <u>9/7/24</u>
EC	<2.25 mmhos/cm	0.35	0.36
Sodium		45.19	45.42
Calcium	20 - 60 ppm	10.90	13.51
Magnesium	10 - 25 ppm	3.05	3.66
Potassium	5 - 20 ppm	3.19	3.19
Sulfur	30 - 90 ppm	17.39	21.37
Bicarbonate	<120 ppm	26.64	30.50
Boron	<0.67 ppm	<0.05	<0.05
Chloride	<177 ppm	84.42	88.85



SOIL AND WATER CONSULTING

ROUGH	Acceptable Range For Standard Soil Sample	11,13,15(avg) <u>9/22/23</u>	5,10,16(avg) <u>9/7/24</u>
pH	6.3-6.5	5.60	6.60
Organic Matter (Humus)	2 - 3%	4.45	3.72
Sulfur	50 - 100 ppm	20.00	23.00
Mehlich III - Phosphorus	350 lbs/acre	246.00	447.33
Calcium	68%	50.42	75.54
Magnesium	15%	11.23	8.73
Potassium	5%	2.72	2.76
Sodium	<2%	2.44	2.16
Boron	1 - 1.5 ppm	0.58	0.64
Iron	120 ppm	367.33	311.33
Manganese	50 ppm	5.00	8.00

TEE	Acceptable Range For Standard Soil Sample	5,10,16(avg) 10/7/21	5,10,16(avg) 9/7/24
Organic Matter (Humus)	2 - 3%	2.70	2.49
Sulfur	50 - 100 ppm	22.00	23.67
Mehlich III - Phosphorus	350 lbs/acre	597.00	827.33
Calcium	68%	70.16	69.33
Magnesium	15%	13.90	11.91
Potassium	5%	4.70	5.28
Sodium	<2%	3.26	2.68
Boron	1 - 1.5 ppm	0.46	0.65
Iron	120 ppm	349.33	405.33
Manganese	50 ppm	19.00	23.33

FAIRWAY	Acceptable Range For Standard Soil Sample	5,10,16(avg) 10/7/21	5,10,16(avg) 9/7/24
Organic Matter (Humus)	2 - 3%	4.42	4.35
Sulfur	50 - 100 ppm	23.33	24.67
Mehlich III - Phosphorus	350 lbs/acre	697.33	697.67
Calcium	68%	67.52	65.12
Magnesium	15%	10.73	10.10
Potassium	5%	5.98	4.91
Sodium	<2%	1.77	2.19
Boron	1 - 1.5 ppm	0.67	0.64
Iron	120 ppm	382.00	353.67
Manganese	50 ppm	6.67	6.00

GREENS	Acceptable Range For Standard Soil Sample	5,10,16(avg) 10/7/21	5,10,16(avg) 9/7/24
Organic Matter (Humus)	2 - 3%	3.87	2.84
Sulfur	50 - 100 ppm	22.67	44.67
Mehlich III - Phosphorus	350 lbs/acre	1,380.33	1,367.67
Calcium	68%	70.69	66.09
Magnesium	15%	8.61	7.05
Potassium	5%	3.65	3.22
Sodium	<2%	1.44	1.66
Boron	1 - 1.5 ppm	0.49	0.68
Iron	120 ppm	334.33	421.67
Manganese	50 ppm	13.67	32.33

TEE	Acceptable Range For Saturated Paste Sample	5,16(avg) 10/7/21	5,16(avg) 9/7/24
Nitrate-Cool season	5 - 10 ppm	1.30	1.00
Phosphorus	2 - 10 ppm	1.39	4.81
Potassium	40 - 100 ppm	35.47	30.73
Calcium	60 - 200 ppm	33.74	18.56
Magnesium	20 - 70 ppm	8.53	4.99
Sodium	0 - 30 ppm	21.39	15.21
Soluble Salts	<1,920 ppm	248.00	197.00
Bicarbonate	<60 ppm	70.09	75.16
Chloride	<1,000 ppm	55.50	36.50
SAR	<4%	0.85	0.81

FAIRWAY	Acceptable Range For Saturated Paste Sample	5,16(avg) 10/7/21	5,16(avg) 9/7/24
Nitrate-Cool season	5 - 10 ppm	9.65	2.70
Phosphorus	2 - 10 ppm	1.42	1.99
Potassium	40 - 100 ppm	38.82	20.90
Calcium	60 - 200 ppm	35.19	13.92
Magnesium	20 - 70 ppm	6.89	3.88
Sodium	0 - 30 ppm	18.14	11.30
Soluble Salts	<1,920 ppm	251.00	147.00
Bicarbonate	<60 ppm	55.98	41.09
Chloride	<1,000 ppm	43.50	25.50
SAR	<4%	0.74	0.71

GREENS	Acceptable Range For Saturated Paste Sample	5,16(avg) 10/7/21	5,16(avg) 9/7/24
Nitrate - Bentgrass/Poa	1-3 ppm	9.95	1.70
Phosphorus	2 - 7 ppm	2.77	3.95
Potassium	25-40 ppm	32.12	22.91
Calcium	50- 75 ppm	34.12	31.95
Magnesium	15-30 ppm	6.37	6.32
Sodium	0 - 30 ppm	22.66	14.53
Soluble Salts	<1,000 ppm	249.00	233.00
Bicarbonate	<60 ppm	24.54	32.90
Chloride	<200 ppm	22.50	22.00
SAR	<4%	0.94	0.62



Nutrient Deficiencies

		pH	Mg	Mn
TEE	5	6.6	162	11
TEE	10	6.5	216	23
TEE	16	6.7	230	36
FAIRWAY	5	6.1	180	7
FAIRWAY	10	6.3	288	5
FAIRWAY	16	6.1	258	6
GREEN	5	6.1	222	35
GREEN	10	5.9	156	34
GREEN	16	5.9	154	28
ROUGH	5	7	142	6
ROUGH	10	6.5	168	7
ROUGH	16	6.3	276	11

Magnesium can be added in the form of Pro-Mag 36 at a rate of 100 pounds of product per acre in October.(Fairways, Roughs and Greens)

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

Comments and Next Level Cultural Practices

- Let's discuss the Pro-Mag 36 applications first
- The green's manganese levels have improved and continue though early Winter on Manganese applications
- The rough's pH is in a much better area compared to last Fall. Let's discuss one possible fall application for the roughs.