



SOIL AND WATER CONSULTING

Data Collection Report

Fall 2022

Date of Collection: 9/27/22

Client: Jumping Brook Country Club



Testing Results

	<u>9/11/20</u>	<u>10/7/21</u>	<u>9/27/22</u>
Humidity/Air Temperature	80%/75°	70%/72°	40%/73°
Greens Temperature	(avg)75°	(avg)68.5°	(avg)62.6°
Fairways Temperature	(avg)76.25°	(avg)68.15°	(avg)64.6°

WATER	Acceptable Range For Water Sample	Pond <u>9/11/20</u>	Pond <u>10/7/21</u>	Pond <u>9/27/22</u>
EC	<2.25 mmhos/cm	0.19	0.35	0.33
Sodium		24.74	45.19	43.01
Calcium	20 - 60 ppm	5.28	10.90	11.43
Magnesium	10 - 25 ppm	1.34	3.05	3.63
Potassium	5 - 20 ppm	10.63	3.19	3.43
Sulfur	30 - 90 ppm	42.12	17.39	20.77
Bicarbonate	<120 ppm	10.89	26.64	11.13
Boron	<0.67 ppm	<0.05	<0.05	<0.05
Chloride	<177 ppm	33.19	84.42	74.04

TEE	Acceptable Range For Standard Soil Sample	2,9(avg) 10/18/19	2,9,12(avg) 9/27/22
Organic Matter (Humus)	2 - 3%	3.14	2.92
Sulfur	50 - 100 ppm	26.00	25.33
Mehlich III - Phosphorus	350 lbs/acre	1,037.50	1235.33
Calcium	68%	72.46	70.03
Magnesium	15%	14.48	13.91
Potassium	5%	6.28	4.50
Sodium	<2%	2.39	2.36
Boron	1 - 1.5 ppm	0.65	0.58
Iron	120 ppm	372.50	362.33
Manganese	50 ppm	22.50	19.33

FAIRWAY	Acceptable Range For Standard Soil Sample	2,9,12(avg) 10/18/19	2,9,12(avg) 9/27/22
Organic Matter (Humus)	2 - 3%	4.75	4.42
Sulfur	50 - 100 ppm	30.67	31.33
Mehlich III - Phosphorus	350 lbs/acre	600.00	728.33
Calcium	68%	67.91	63.25
Magnesium	15%	11.34	10.09
Potassium	5%	4.75	4.58
Sodium	<2%	1.99	2.21
Boron	1 - 1.5 ppm	0.61	0.46
Iron	120 ppm	385.00	421.00
Manganese	50 ppm	3.67	4.67

GREENS	Acceptable Range For Standard Soil Sample	2,9,12(avg) 10/18/19	2,9,12(avg) 9/27/22
Organic Matter (Humus)	2 - 3%	4.11	3.58
Sulfur	50 - 100 ppm	30.33	35.00
Mehlich III - Phosphorus	350 lbs/acre	1,368.00	1,502.33
Calcium	68%	74.14	71.83
Magnesium	15%	11.15	10.83
Potassium	5%	4.84	3.70
Sodium	<2%	1.72	1.78
Boron	1 - 1.5 ppm	0.70	0.60
Iron	120 ppm	319.67	405.33
Manganese	50 ppm	10.67	15.00

TEE	Acceptable Range For Saturated Paste Sample	2 10/18/19	2 9/27/22
Nitrate-Cool season	5 - 10 ppm	14.50	<0.5
Phosphorus	2 - 10 ppm	0.48	1.11
Potassium	40 - 100 ppm	54.03	51.15
Calcium	60 - 200 ppm	42.73	51.44
Magnesium	20 - 70 ppm	10.04	11.79
Sodium	0 - 30 ppm	27.39	34.63
Soluble Salts	<1,920 ppm	419.00	372.00
Bicarbonate	<60 ppm	33.63	99.38
Chloride	<1,000 ppm	65.00	71.00
SAR	<4%	0.98	1.13

FAIRWAY	Acceptable Range For Saturated Paste Sample	2,12 (avg) 10/18/19	2,12(avg) 9/27/22
Nitrate-Cool season	5 - 10 ppm	14.70	1.35
Phosphorus	2 - 10 ppm	0.57	0.37
Potassium	40 - 100 ppm	66.91	50.32
Calcium	60 - 200 ppm	49.48	53.78
Magnesium	20 - 70 ppm	11.48	10.40
Sodium	0 - 30 ppm	26.79	31.20
Soluble Salts	<1,920 ppm	467.00	377.00
Bicarbonate	<60 ppm	28.93	51.38
Chloride	<1,000 ppm	91.00	90.50
SAR	<4%	0.89	1.02

GREENS	Acceptable Range For Saturated Paste Sample	2,12 (avg) 10/18/19	2,12(avg) 9/27/22
Nitrate - Bentgrass/Poa	1-3 ppm	9.25	5.00
Phosphorus	2 - 7 ppm	1.31	1.88
Potassium	25-40 ppm	50.46	36.71
Calcium	50- 75 ppm	36.55	45.75
Magnesium	15-30 ppm	8.16	9.56
Sodium	0 - 30 ppm	20.34	23.94
Soluble Salts	<1,000 ppm	336.00	309.50
Bicarbonate	<60 ppm	16.87	24.18
Chloride	<200 ppm	53.00	44.50
SAR	<4%	0.80	0.84