



SOIL AND WATER CONSULTING

Data Collection Report

Fall 2019

Date of Collection: 10/18/19

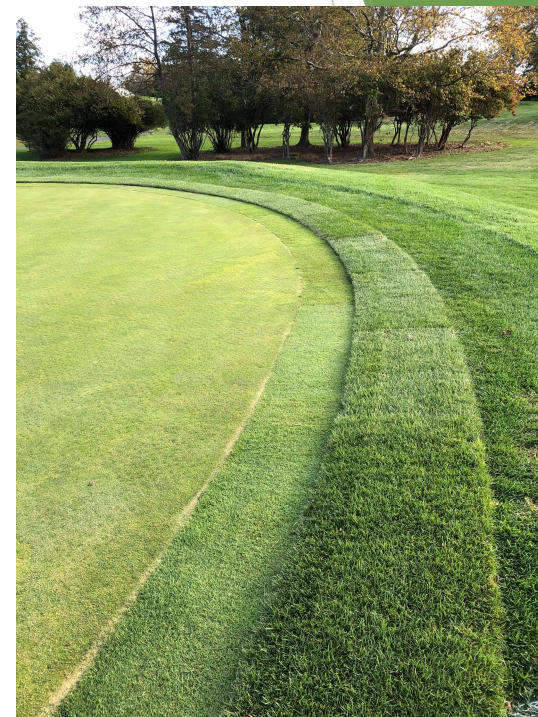
Client: Jumping Brook Country Club



Testing Results

	<u>10/20/17</u>	<u>10/5/18</u>	<u>10/18/19</u>
Humidity/Air Temperature	45%/72°	55%/70°	50%/58°
Greens Temperature	(avg)58°	(avg)67.5°	(avg)51°
Fairways Temperature	n/t	(avg)69.6°	(avg)52.5°

WATER	Acceptable Range For Water Sample	Sprinkler Head <u>10/5/16</u>	Sprinkler Head <u>10/20/17</u>	Pond <u>10/18/19</u>
EC	<2.25 mmhos/cm	0.16	0.29	0.22
Sodium		19.04	33.57	23.39
Calcium	20 - 60 ppm	8.93	16.92	11.92
Magnesium	10 - 25 ppm	2.00	2.92	2.57
Potassium	5 - 20 ppm	3.54	3.32	3.80
Sulfur	30 - 90 ppm	17.87	17.06	17.21
Bicarbonate	<120 ppm	30.24	32.21	30.24
Boron	<0.67 ppm	<0.05	<0.05	<0.05
Chloride	<177 ppm	19.06	54.81	36.59



New Collars

TEE	Acceptable Range For Standard Soil Sample	1,8,17(avg) 10/5/18	2,9(avg) 10/18/19
Organic Matter (Humus)	2 - 3%	3.41	3.14
Sulfur	50 - 100 ppm	20.33	26.00
Mehlich III - Phosphorus	350 lbs/acre	740.33	1,037.50
Calcium	68%	76.19	72.46
Magnesium	15%	11.45	14.48
Potassium	5%	4.07	6.28
Sodium	<2%	2.28	2.39
Boron	1 - 1.5 ppm	0.59	0.65
Iron	120 ppm	318.67	372.50
Manganese	50 ppm	15.67	22.50

FAIRWAY	Acceptable Range For Standard Soil Sample	1,8,17(avg) 10/5/18	2,9,12(avg) 10/18/19
Organic Matter (Humus)	2 - 3%	4.45	4.75
Sulfur	50 - 100 ppm	23.67	30.67
Mehlich III - Phosphorus	350 lbs/acre	632.00	600.00
Calcium	68%	66.70	67.91
Magnesium	15%	11.84	11.34
Potassium	5%	4.24	4.75
Sodium	<2%	2.20	1.99
Boron	1 - 1.5 ppm	0.51	0.61
Iron	120 ppm	376.00	385.00
Manganese	50 ppm	4.33	3.67

GREENS	Acceptable Range For Standard Soil Sample	PG,1,8,12,18(avg) 10/20/17	1,8,17(avg) 10/5/18	2,9,12(avg) 10/18/19
Organic Matter (Humus)	2 - 3%	4.59	4.17	4.11
Sulfur	50 - 100 ppm	20.40	20.00	30.33
Mehlich III - Phosphorus	350 lbs/acre	1,407.00	1,577.00	1,368.00
Calcium	68%	76.51	77.84	74.14
Magnesium	15%	10.82	9.44	11.15
Potassium	5%	3.96	2.94	4.84
Sodium	<2%	1.43	1.67	1.72
Boron	1 - 1.5 ppm	0.62	0.62	0.70
Iron	120 ppm	388.00	339.67	319.67
Manganese	50 ppm	9.20	10.33	10.67

TEE	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2 10/18/19
Nitrate-Cool season	5 - 10 ppm	9.40	14.50
Phosphorus	2 - 10 ppm	0.75	0.48
Potassium	40 - 100 ppm	13.75	54.03
Calcium	60 - 200 ppm	18.80	42.73
Magnesium	20 - 70 ppm	4.26	10.04
Sodium	0 - 30 ppm	12.09	27.39
Soluble Salts	<1,920 ppm	149.50	419.00
Bicarbonate	<60 ppm	45.15	33.63
Chloride	<1,000 ppm	16.00	65.00
SAR	<4%	0.66	0.98

FAIRWAY	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2,12 (avg) 10/18/19
Nitrate-Cool season	5 - 10 ppm	13.50	14.70
Phosphorus	2 - 10 ppm	0.81	0.57
Potassium	40 - 100 ppm	24.11	66.91
Calcium	60 - 200 ppm	21.57	49.48
Magnesium	20 - 70 ppm	6.11	11.48
Sodium	0 - 30 ppm	17.29	26.79
Soluble Salts	<1,920 ppm	194.00	467.00
Bicarbonate	<60 ppm	31.73	28.93
Chloride	<1,000 ppm	19.50	91.00
SAR	<4%	0.82	0.89

GREENS	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2,12 (avg) 10/18/19
Nitrate - Bentgrass/Poa	1-3 ppm	3.00	9.25
Phosphorus	2 - 7 ppm	2.16	1.31
Potassium	25-40 ppm	10.08	50.46
Calcium	50- 75 ppm	11.08	36.55
Magnesium	15-30 ppm	2.63	8.16
Sodium	0 - 30 ppm	8.93	20.34
Soluble Salts	<1,000 ppm	89.00	336.00
Bicarbonate	<60 ppm	28.06	16.87
Chloride	<200 ppm	10.50	53.00
SAR	<4%	0.63	0.80