



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2018

Date of Collection: 3/1/18

Client: The Summit Club



Testing Results

	<u>3/22/17</u>	<u>3/1/18</u>
Humidity/Air Temperature	23%/68°	35%/65°
Greens Temperature	65°	50.2°

	<u>Acceptable Range For Water Sample</u>	<u>Wet Well 8/27/17</u>	<u>Wet Well 3/1/18</u>	<u>River In 8/27/17</u>	<u>River In 3/1/18</u>	<u>Hole #9 Potable 3/1/18</u>
pH	6.0-6.5	6.26	6.26	8.60	6.45	7.75
EC	<2.25 mmhos/cm	1.62	1.69	1.73	1.74	0.94
Sodium		161.00	159.80	180.20	155.60	87.89
Calcium	20 - 60 ppm	124.50	141.10	138.10	137.80	72.12
Magnesium	10 - 25 ppm	29.11	26.68	29.67	25.59	21.72
Potassium	5 - 20 ppm	14.61	13.56	16.57	12.76	4.41
Nitrate	10-25 ppm	3.64	3.18	1.71	3.19	0.35
Phosphours	5-20 ppm	0.78	0.44	0.54	0.43	<0.20
Sulfur	30 - 90 ppm	427.20	471.90	467.70	454.80	195.75
Bicarbonate	<120 ppm	58.08	34.12	47.92	33.40	183.68
Boron	<0.67 ppm	0.21	0.22	0.24	0.22	0.14
Chloride	<177 ppm	217.36	182.63	227.57	189.61	91.91

GREENS	Acceptable Range For Tissue Sample	Greens 2,9,18 (avg) 3/1/18
Nitrogen	3.0%-6.5%	4.14
Phosphorus	0.2%-0.55%	0.58
Potassium	0.86%-2.55%	1.70
Calcium	0.21%-0.50%	1.06
Magnesium	0.09%-0.22%	0.25
Sodium	506- 2264 ppm	1,720.00



GREENS	Acceptable Range For Alkaline Soils Sample	1 3/22/17	2,9,18(avg) 3/1/18
Organic Matter (Humus)	2 - 3%	0.57	0.99
Sulfur	12 - 16 ppm	35.00	19.67
Olsen - Phosphorus	13 - 20 ppm	5.00	10.33
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,790.00	1,741.33
Magnesium	>7% base saturation or at least 200 lbs/acre	12.44%/178	14.33%/195.33
Potassium - TEC of 0 - 35	150 ppm	79.00	43.67
Manganese	>50 ppm	n/a	13.67

GREENS	Acceptable Range For Saturated Paste Sample	1,10 (avg) 3/22/17	2,9,18 (avg) 3/1/18
Nitrate - Bentgrass	1-3 ppm	<1.1	<0.6
Phosphorus	2 - 7 ppm	3.02	3.80
Potassium	25-40 ppm	52.04	18.51
Calcium	50- 75 ppm	87.38	48.30
Magnesium	15-30 ppm	23.29	16.57
Sodium	0 - 30 ppm	125.36	72.19
Soluble Salts	<1,000 ppm	736.00	467.00
Bicarbonate	<60 ppm	184.25	152.12
Chloride	<200 ppm	119.50	35.67
SAR	<4%	3.14	2.29