



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2023

Date of Collection: 3/23/23

Client: Tucson Country Club



Testing Results

	<u>3/21/21</u>	<u>3/15/22</u>	<u>3/23/23</u>
Humidity/Air Temperature	10%/79°	5%/85°	30%/65°
Greens Temperature	(avg)54°	(avg)55.6°	(avg)62.4°
Fairway Temperature	(avg)54.85°	(avg)52.7°	(avg)58.75°

WATER	Acceptable Range For Water Sample	Hole #9 <u>3/21/21</u>	Hole #14 <u>3/15/22</u>	Hole #1 <u>3/23/23</u>
EC	<2.25 mmhos/cm	0.48	0.28	0.30
Sodium		78.52	26.80	28.98
Calcium	20 - 60 ppm	24.68	28.55	30.89
Magnesium	10 - 25 ppm	1.34	2.48	1.98
Potassium	5 - 20 ppm	1.67	1.80	2.06
Sulfur	30 - 90 ppm	35.91	24.43	16.89
Bicarbonate	<120 ppm	172.06	125.99	129.83
Boron	<0.67 ppm	0.09	0.06	<0.05
Chloride	<177 ppm	43.06	17.02	20.25

FAIRWAY	Acceptable Range For Tissue Sample	1,4,16(avg) <u>3/23/23</u>
Nitrogen	3.34%-5.10%	4.86
Phosphorus	0.35% - 0.55%	0.56
Potassium	2.0% - 3.42%	3.16
Calcium	0.25%-0.5%	0.39
Magnesium	0.16%-0.32%	0.21
Sodium	229-1107 ppm	1,940.03

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	9,18(avg) 3/21/21	1,4,10,14,16,18(avg) 3/23/23
Organic Matter (Humus)	2 - 3%	3.44	3.40
Sulfur	12 - 16 ppm	24.50	13.67
Olsen - Phosphorus	13 - 20 ppm	27.50	21.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	3,072.00	2,958.33
Magnesium	>7% base saturation or at least 200 lbs/acre	8.9%/223	9.3%/223.67
Potassium - TEC of 0 - 35	100 ppm	258.00	245.50
Manganese	>50 ppm	30.00	25.67

FAIRWAY	Acceptable Range For Saturated Paste Sample	14 3/15/22	1,4,16(avg) 3/23/23
Nitrate - Ryegrass	5 - 10 ppm	0.70	<0.5
Phosphorus	2 - 10 ppm	1.64	2.56
Potassium	40 - 100 ppm	15.81	22.12
Calcium	60 - 200 ppm	51.28	38.94
Magnesium	20 - 70 ppm	8.28	6.08
Sodium	0 - 30 ppm	44.10	70.04
Soluble Salts	<1,920 ppm	320.00	315.00
Bicarbonate	<60 ppm	102.89	164.81
Chloride	<1,000 ppm	35.00	23.00
SAR	<4%	1.51	2.79