



Client: Tucson Country Club

Fall 2023 Report

	<u>9/18/19</u>	<u>9/7/22</u>	<u>9/26/23</u>
Humidity/Air Temperature	30%/97°	15%/102°	10%/100°
Greens Temperature	(avg)75°	(avg)84.1°	n/r
Fairway Temperature	(avg)78°	(avg)81.5°	(avg)79.5°

	<u>Acceptable Range For Water Sample</u>	<u>Hole #7 9/18/19</u>	<u>Hole #7 9/7/22</u>	<u>Hole #2 9/26/23</u>
EC	<2.25 mmhos/cm	0.38	0.28	0.60
Sodium		60.38	30.49	81.25
Calcium	20 - 60 ppm	24.78	22.76	41.90
Magnesium	10 - 25 ppm	2.21	2.31	6.16
Potassium	5 - 20 ppm	1.75	2.19	4.48
Sulfur	30 - 90 ppm	26.83	22.61	74.05
Bicarbonate	<120 ppm	163.26	109.89	191.54
Boron	<0.67 ppm	0.12	0.06	0.13
Chloride	<177 ppm	27.91	16.85	54.98

FAIRWAY	Acceptable Range For Tissue Sample	2,7,9(avg) 9/26/23
Nitrogen	2.49%-4.56%	4.27
Phosphorus	0.26% - 0.38%	0.40
Potassium	0.95% - 1.97%	1.68
Calcium	0.50%-0.90%	0.64
Magnesium	0.13%-0.16%	0.14
Sodium	622-1709 ppm	1,442.23

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	7,16(avg) 9/7/22	2,5,7,8,9,17(avg) 9/26/23
Organic Matter (Humus)	2 - 3%	3.03	2.52
Sulfur	12 - 16 ppm	61.00	47.67
Olsen - Phosphorus	13 - 20 ppm	20.00	9.17
Calcium - TEC of 6 - 12	1,000 lbs/acre	3,097.00	2,898.67
Magnesium	>7% base saturation or at least 200 lbs/acre	8.74%/222	9.86%/241.33
Potassium - TEC of 0 - 35	100 ppm	252.00	252.33
Manganese	50-80 ppm	41.50	51.00

FAIRWAY	Acceptable Range For Saturated Paste Sample	16 9/18/19	2,7,9(avg) 9/26/23
Nitrate - Bermudagrass	10 -15 ppm	9.60	12.50
Phosphorus	2 - 10 ppm	1.27	1.96
Potassium	40 - 100 ppm	56.74	30.19
Calcium	60 - 200 ppm	65.09	50.85
Magnesium	20 - 70 ppm	10.72	7.37
Sodium	0 - 30 ppm	156.85	159.98
Soluble Salts	<1,920 ppm	787.00	627.00
Bicarbonate	<60 ppm	266.00	191.91
Chloride	<1,000 ppm	91.00	91.00
SAR	<4%	4.75	5.51

Nutrient Deficiencies

		P	K
FAIRWAY	2	14	387
FAIRWAY	5	7	328
FAIRWAY	7	3	261
FAIRWAY	8	17	276
FAIRWAY	9	14	262
FAIRWAY	17	2	414

Phosphorus can be added in the form of 11-55-00 at a rate of 125 pounds of product per acre one time before the end of 2023.

Potassium can be added in the form of 0-0-50 at a rate of 100 pounds of product per acre one times in the next four months.

Next Level Cultural Practices

- The bermudagrass in the fairways was as good as I have seen it! The primo applications did a good job of making it more dense
- Although Potassium levels are not low, I would like to see one application of 0-0-50 wall-to-wall to put the bermudagrass “to bed” for Winter. With no overseeding this year, it will need some readily available potassium as a way to protect the plant from extra play and cart traffic.