



IRRIGATION WATER



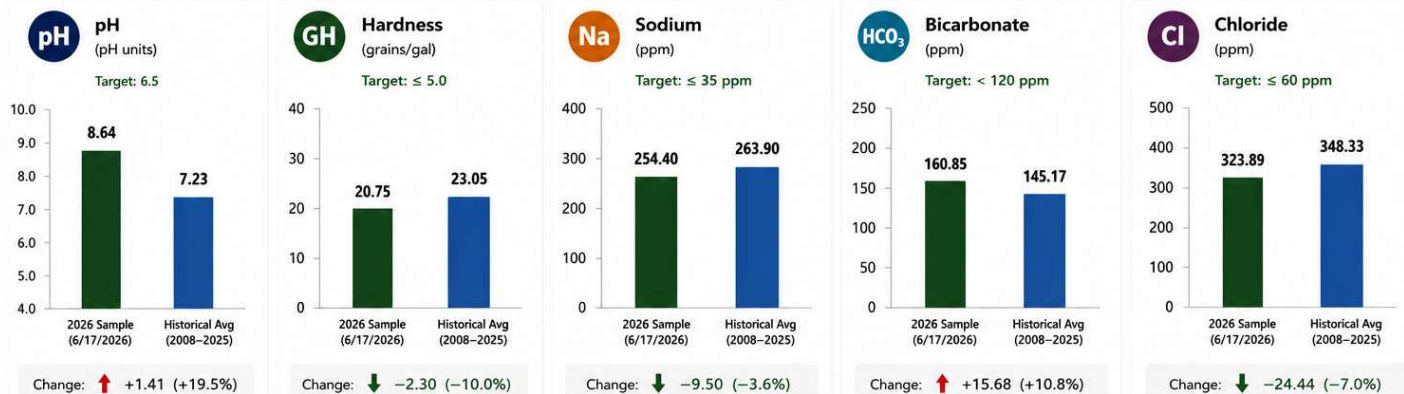
DRAGONRIDGE COUNTRY CLUB IRRIGATION WATER QUALITY COMPARISON

2026 Sample vs. Historical Average (2008, 2009, 2011, 2023–2025)



DATE OF VISIT:
June 17, 2026

■ 2026 Sample (6/17/2026) ■ Historical Average (2008, 2009, 2011, 2023–2025)



Parameter	Target / Benchmark	2026 Sample (6/17/2026)	Historical Average (2008, 2009, 2011, 2023–2025)	Change	Change (%)	Comparison
pH	6.5	8.64	7.23	+1.41	+19.5%	Higher (Above Target)
Hardness (grains/gal)	≤ 5.0	20.75	23.05	-2.30	-10.0%	Lower (Still Above Target)
Sodium (ppm)	≤ 35 ppm	254.40	263.90	-9.50	-3.6%	Lower (Still Above Target)
Bicarbonate (ppm)	< 120 ppm	160.85	145.17	+15.68	+10.8%	Higher (Above Target)
Chloride (ppm)	≤ 60 ppm	323.89	348.33	-24.44	-7.0%	Lower (Still Above Target)

SUMMARY INSIGHTS

- pH** Increased substantially and remains well above the 6.5 target.
- Hardness** Decreased slightly but remains far above the 5.0 grains/gal target.
- Sodium** Decreased slightly but remains far above the 35 ppm target.
- Bicarbonate** Increased and remains above the 120 ppm target.
- Chloride** Decreased compared to historical average but remains far above the 60 ppm target.

All results are averages of irrigation water samples for each respective period.

- I am showing a lengthy historical average just to give you an idea of how the water at Dragonridge CC has been treated up until this year. It is being compared to the recent sample I collected in June, which had no sulfur treated water in it since January.
- The new system was awaiting some adjustments.



DRAGONRIDGE COUNTRY CLUB



TEES

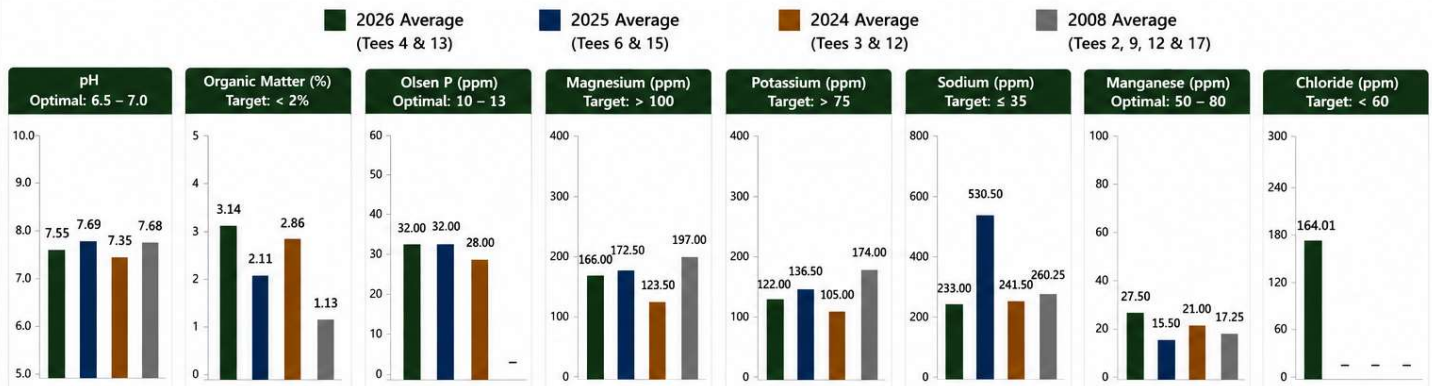


TEE SOIL ANALYSIS SUMMARY

Average Results by Year



Visit Date:
June 17, 2026



Year / Sample	pH (Optimal: 6.5 - 7.0)	Organic Matter (%) (Target: < 2%)	Olsen P (ppm) (Optimal: 10 - 13)	Magnesium (ppm) (Target: > 100)	Potassium (ppm) (Target: > 75)	Sodium (ppm) (Target: ≤ 35)	Manganese (ppm) (Optimal: 50 - 80)	Chloride (ppm) (Target: < 60)
2026 Average (Tees 4 & 13)	7.55	3.14	32.00	166.00	122.00	233.00	27.50	164.01
2025 Average (Tees 6 & 15)	7.69	2.11	32.00	172.50	136.50	530.50	15.50	-
2024 Average (Tees 3 & 12)	7.35	2.86	28.00	123.50	105.00	241.50	21.00	-
2008 Average (Tees 2, 9, 12 & 17)	7.68	1.13	-	197.00	174.00	260.25	17.25	-

SOIL HEALTH STANDARDS (Benchmarks)

pH 6.5 - 7.0	Organic Matter (Tees & Greens) < 2%	Organic Matter (Fairways) < 5%	Olsen P 10 - 13 ppm	Calcium ≥ 500 ppm	Magnesium ≥ 100 ppm	Potassium ≥ 75 ppm	Sodium ≤ 35 ppm	K : Na Ratio 2 : 1 Ideal	Irrigation Water pH 6.5 Ideal	Irrigation Water Bicarbonate < 120 ppm
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Note: Soil test results are from samples collected on the dates shown.
Results represent laboratory analysis of the tee samples.

- For this report, I decided to show almost 20-year-old data that I had from when I used to work with the Club. The reason I did that is to give you an idea of what you have inherited.
- The first thing to know is the OM %. It has nearly tripled since 2008, and I would say most of that is in the top 3" of the profile.
- Another thing to note is the stability of the main nutrients. 18 years is a long time to have these levels be consistent. That would tell me that most of that nutrient was in the soil used to build the tees.



DRAGONRIDGE COUNTRY CLUB



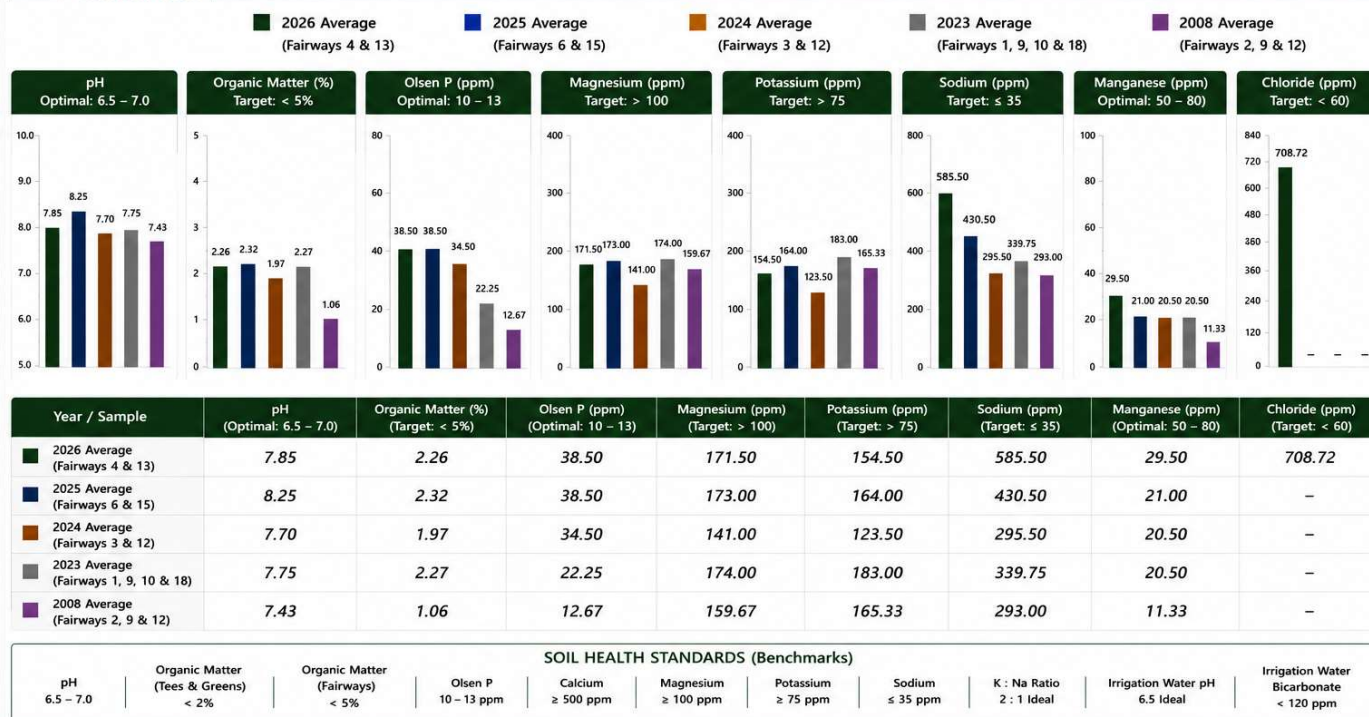
FAIRWAYS



FAIRWAY SOIL ANALYSIS SUMMARY

Visit Date:
June 17, 2026

Average Results by Year



Note: Soil test results are from samples collected on the dates shown.
Results represent laboratory analysis of the fairway samples.

- Although the OM % on the fairways, seemingly is quite perfect, the top 4-5" of the profile is mainly organic material. So, when I am collecting a 6" sample, the "red dirt" will dilute the top organic material. Giving us a lower percentage, that we know we really have.
- The main concern you have, especially with trying to hold onto ryegrass through summer, is the sodium and chloride levels. Although the nutrient levels are well above target, the ratio of potassium to sodium should be 2:1.
- Seeing a steady increase in sodium through the years would also correlate with the organic matter expanding. It works like a sponge and holds onto the negativity that comes from your water.



DRAGONRIDGE COUNTRY CLUB



GREENS

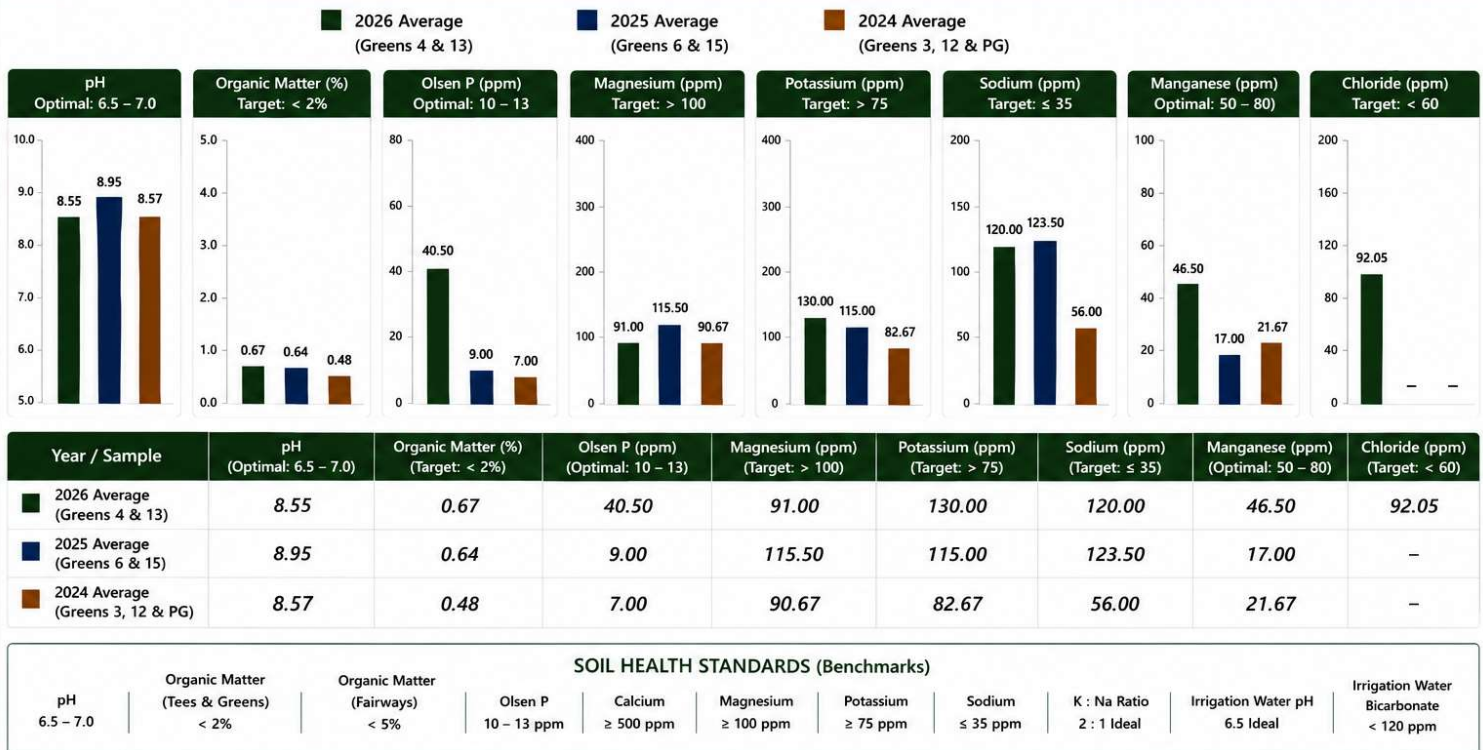


GREEN SOIL ANALYSIS SUMMARY

Average Results by Year



Visit Date:
June 17, 2026



Note: Soil test results are from samples collected on the dates shown.
Results represent laboratory analysis of the green samples.

- The Green's chart is only showing the greens since they've been renovated.
- Almost in range for manganese! One more granular application or multiple spray applications with watering in **Techmagnum** will continue to help with that. Manganese is very helpful against the summer patch, take all patch and fairy ring.
- The potassium and sodium levels are nearly equal. I would suggest **"flushing"** greens and then replacing-a day or two after-with an application O-O 50.



DRAGONRIDGE COUNTRY CLUB

SUMMARY

- ❑ Green #4 profile inspection revealed a well-developed root system extending beyond 5 inches, with excellent turf density and root mass throughout the sampled profile.
- ❑ Shear strength measured 13 in the stronger-performing areas and 11 in a localized drier spot, indicating good overall surface stability and only minor moisture-related variability.
- ❑ Soil temperature averaged 72°F during the morning assessment. With air temperatures forecast to reach 106°F, maintaining precise moisture management will be important to preserve turf performance and consistency through peak stress periods.
- ❑ Recent fairway and tee aerification was completed successfully, and the newly renovated front-nine surrounds and approaches were verticut, topdressed, and fertilized during the closure period to improve surface uniformity and recovery.
- ❑ Water sampling will serve as a baseline evaluation of performance following installation of the nanobubble system. Future testing should provide a clearer indication of any changes in water quality and system effectiveness over time.
- ❑ No sulfur burner treatments have been utilized since January, allowing upcoming water quality data to more accurately reflect the influence of the nanobubble system without recent sulfur burner inputs.
- ❑ Front nine bunker renovations are underway, followed by the back nine. The project includes complete sand removal, drainage inspection and repair, installation of an on-site manufactured bunker liner system, and replacement with new bunker sand.



Corey Angelo | Owner
Soil & Water Consulting

[848-225-5115](tel:848-225-5115)

www.soilandwaterconsulting.com