



IRRIGATION WATER



GRANITE BAY
GOLF CLUB

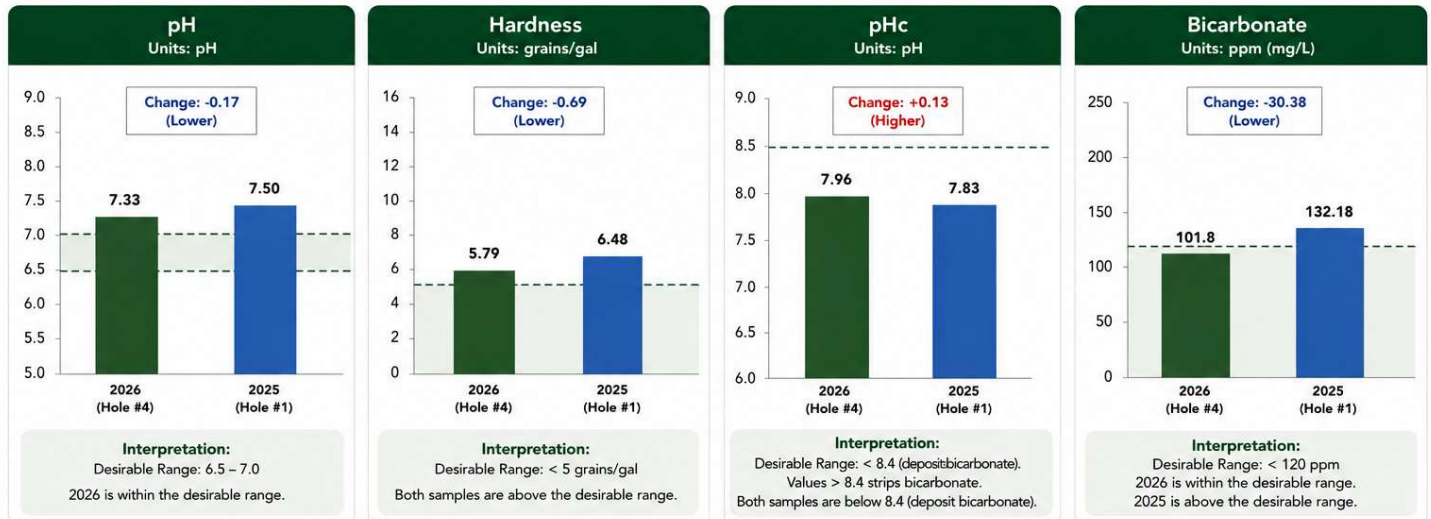
IRRIGATION WATER COMPARISON

2026 SAMPLE COMPARED TO 2025 SAMPLE



REPORT DATE: May 11, 2026

Course:	Granite Bay Golf Club
Sample Type:	Irrigation Water
Locations:	Hole #4 (2026) vs Hole #1 (2025)
2026 Sample Date:	April 29, 2026
2025 Sample Date:	May 8, 2025



Parameter	2026 Sample (Hole #4)	2025 Sample (Hole #1)	Change (2026 vs 2025)	Comparison
pH	7.33	7.50	-0.17	Lower
Hardness (grains/gal)	5.79	6.48	-0.69	Lower
pHc	7.96	7.83	+0.13	Higher
Bicarbonate (ppm)	101.8	132.18	-30.38	Lower

Note: Irrigation water quality can impact turf health, nutrient availability, and soil chemistry over time.

- Similar year over year results showing a “clean water” source at a reasonable pH for the Western region of the country.
- Comparing Spring to the Fall, there does seem to be a fluctuation in the water. It will be good to be able to track that again this Fall.



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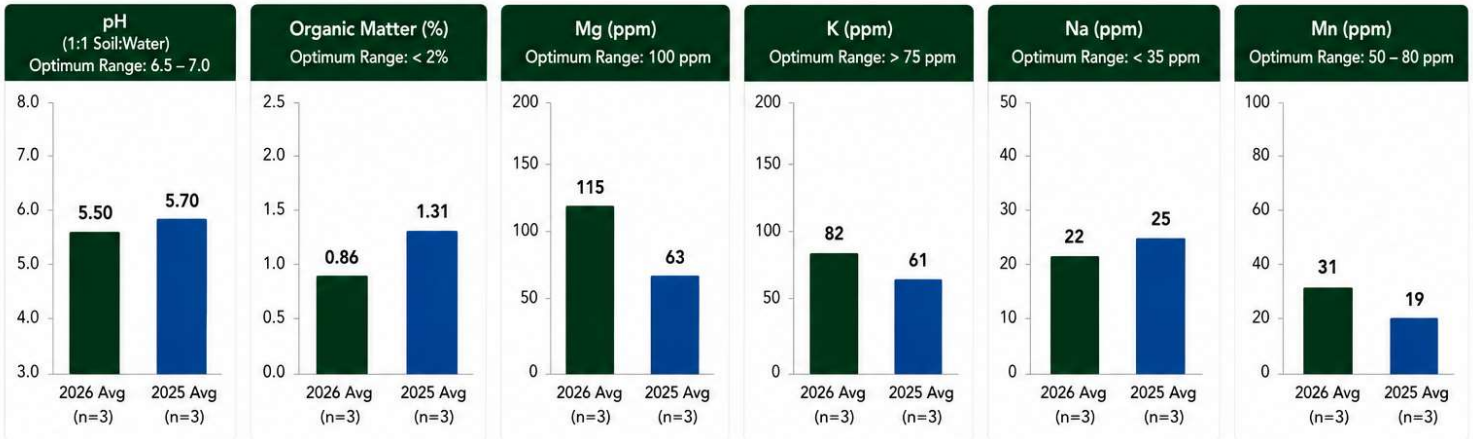
SOIL ANALYSIS COMPARISON

2026 AVERAGE COMPARED TO 2025 AVERAGE (TEE)



VISIT DATE: April 17, 2026

Course: Granite Bay Golf Club
Feature: Tee
Zones Sampled: 2026 (4, 8, 16) vs 2025 (1, 10, 18)



Parameter	Optimal Range	2026 Average (n=3)	2025 Average (n=3)	Change (2026 vs 2025)	Comparison
pH (1:1 Soil:Water)	6.5 – 7.0	5.50	5.70	-0.20	Lower
Organic Matter (%)	< 2%	0.86	1.31	-0.45	Lower
Mg (ppm)	100 ppm	115	63	+52	Higher
K (ppm)	> 75 ppm	82	61	+21	Higher
Na (ppm)	< 35 ppm	22	25	-3	Lower
Mn (ppm)	50 – 80 ppm	31	19	+12	Higher

Note: Soil test results represent averages of the zones sampled on the dates shown.

- Use a Hi-Cal lime to raise the pH on the tees. The magnesium levels have increased, and all other nutrients are within range and no sodium concerns.
- There are bicarbonates in the water that could be mitigated in part, by the calcium applications.





FAIRWAYS



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SOIL ANALYSIS COMPARISON

2026 AVERAGE COMPARED TO 2025 AVERAGE (FAIRWAY)



VISIT DATE: April 17, 2026



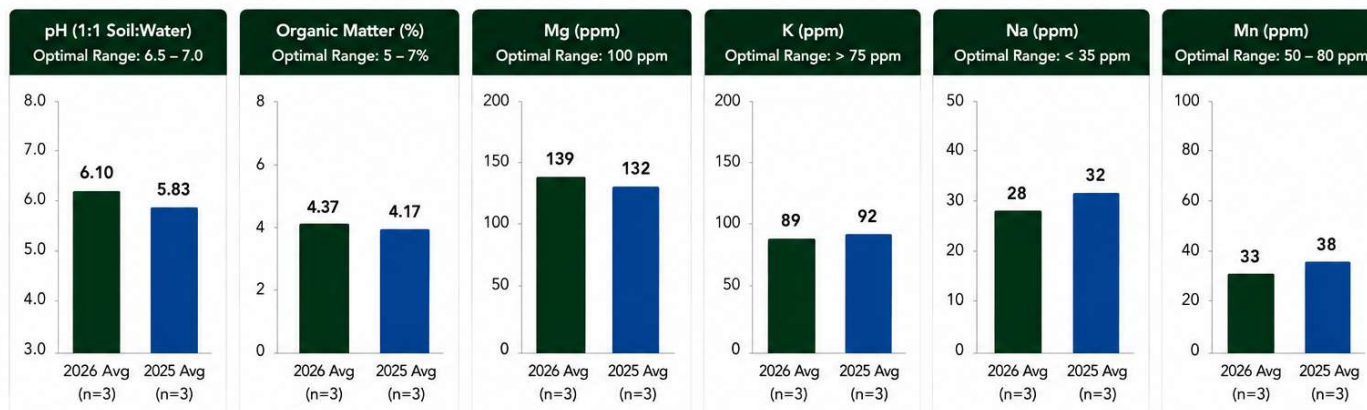
Course: Granite Bay Golf Club



Feature: Fairway



Zones Sampled: 2026 (4, 8, 16) vs 2025 (1, 10, 18)



Parameter	Optimal Range	2026 Average (n=3)	2025 Average (n=3)	Change (2026 vs 2025)	Comparison
pH (1:1 Soil:Water)	6.5 – 7.0	6.10	5.83	-0.27	Lower
Organic Matter (%)	5 – 7%	4.37	4.17	-0.20	Lower
Mg (ppm)	100 ppm	139	132	+7	Higher
K (ppm)	> 75 ppm	89	92	+3	Higher
Na (ppm)	< 35 ppm	28	32	+4	Higher
Mn (ppm)	50 – 80 ppm	33	38	+5	Higher

Note: Soil test results represent averages of the zones sampled on the dates shown.

- I would recommend one more application of Hi-Cal lime at the rate of 1 ton per acre on fairways. There was a steady increase in the pH, which is helpful to gain access to some of the nutrients you have in the soil, which seem to be a good levels currently.
- Feel free to apply nitrogen when soil temperatures are past 65°. Across the entire course, the nitrate levels were low. I consider that a good place to be because it allows you to add more with no repercussions.



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GREENS



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SOIL ANALYSIS COMPARISON

2026 AVERAGE COMPARED TO 2025 AVERAGE (GREEN)



VISIT DATE: April 17, 2026



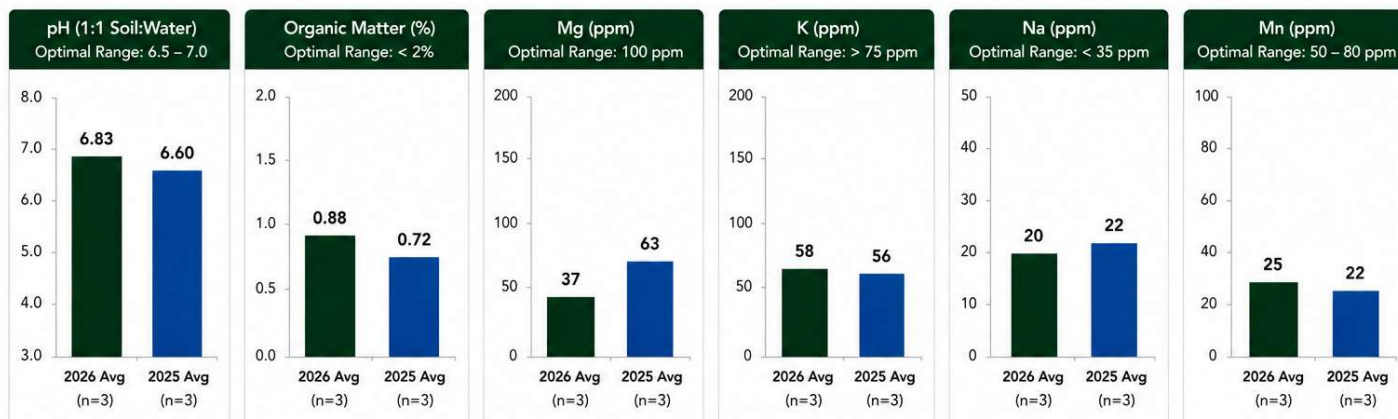
Course: Granite Bay Golf Club



Feature: Green



Zones Sampled: 2026 (4, 8, 16) vs 2025 (1, 10, 18)



Parameter	Optimal Range	2026 Average (n=3)	2025 Average (n=3)	Change (2026 vs 2025)	Comparison
pH (1:1 Soil:Water)	6.5 – 7.0	6.83	6.60	+0.23	Higher
Organic Matter (%)	< 2%	0.88	0.72	+0.16	Higher
Mg (ppm)	100 ppm	37	63	-26	Lower
K (ppm)	> 75 ppm	58	56	+2	Higher
Na (ppm)	< 35 ppm	20	22	-2	Lower
Mn (ppm)	50 – 80 ppm	25	22	+3	Higher

Note: Soil test results represent averages of the zones sampled on the dates shown.

- The pH of the greens has raised to a very good level, and the organic material percentage has stayed about the same.
- I would recommend monthly applications of O-O-22 at a rate of 2 pounds of product per 1,000 sq. ft.
- Although it is difficult currently, to find a good source of manganese sulfate, the greens need to double the current levels to be within range. With bentgrass greens it's even more important to have levels closer to 80 ppm.



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SUMMARY

- ❑ Overall, the course presented in **very good condition**, with clear improvement in turf quality and presentation since the previous visit.
- ❑ Greens were noticeably denser and healthier than in **October**, and Matt's addition of **CORON** to the greens program for supplemental nitrogen appears to be contributing positively to that response.
- ❑ Morning conditions were cool and stable, with **soil temperature at 48°F** and a projected **air temperature of 72°F**, indicating turf activity is still progressing gradually this spring.
- ❑ A tremendous amount of work was completed over the winter, including **strategic tree removal** and a broad irrigation expansion that has already improved growing conditions in multiple areas.
- ❑ The irrigation project continues to show the **best return on investment**, with more than **25 previously thin rough areas** now under irrigation and positioned for better fill-in, density, and consistency.
- ❑ **Drill-and-fill aerification** is recommended to help bridge the layers created during the **2021 greens renovation** and improve continuity through the upper rootzone profile.
- ❑ A **fall follow-up visit** should be scheduled for **sample collection** to further evaluate profile conditions and guide next steps in the greens program.



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