

Full Spectrum Water Sampling Research

Most water districts in California are required to provide Consumer Confidence Reports (CCRs) to their customers on an annual basis. However, Canebrake is designated as a non-Community non-Transient water system. We are required only to test for fluoride one time per year and coliform four times per year.

The last full spectrum water analysis of Canebrake water was conducted in 2014 (nine years ago). In reviewing the Canebrake fluoride levels in the water samples collected over the past three years compared to 2014 (Table 1), one can see there is a significant variance in the concentration.

Table 1: Fluoride Levels Canebrake over three-year period.

Year	Fluoride Level	% Change
2023	2.06 mg/L	81.1%
2022	3.07 mg/L	120.9%
2021	3.22 mg/L.	126.8%
2014	2.54 mg/L	100.0%

Thus, following the State of California Water District standard of annual testing should provide valuable information for the CCWD customers.

Local Labs were not contacted as the results are for the Community of Canebrake and over the counter options will provide enough data for our purpose without incurring a significant cost.

In the end, the review of water sampling options was quite simple as Wirecutter, the testing arm of the New York Times, completed the following in March 2023:

“After 50 hours of reporting, and after testing 11 different home water quality test kits, we’ve found that the SimpleWater Tap Score Advanced City Water Test is the best water quality test kit ... for your [well]. It measures a wide range of more than 100 potential contaminants and delivers the results in an easy-to-read, richly detailed report.”

The cost is \$265. The CCWD collects the sample and mails the sample in the provided envelope to a certified laboratory.

Recommendation:

Purchase Tap Score Water sampling kit one time per year, conduct a sampling of the Canebrake water and report results to the customers.