

Beachfront Vineyard in Lafayette?

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Photo Brett Scheiner

A couple of 12-inch veins of fossil-rich sandstone, a bed of marine fossils, traversed the walls of the cave. While fossil findings are not an everyday occurrence for Rey, a former management consultant, he was not totally surprised. When Rey planted his first 500 cabernet and malbec grapevines six years ago, he unearthed several large boulders in the vineyard that had fossilized shell fragments scattered throughout. He set the large rocks at the end of the rows of vines and did not think too much about it then. In contrast, the sandstone chunks pulled out in June while excavating the wine cave have hundreds of fossils which are intact, clam-shaped shells with semi-circular ridges.

So was Rey's residence once beachfront property? The question is difficult to answer without the input of some expert geologists. And by fortuitous coincidence, Rey happened to be working with a couple of geologists to collect data on the nature of the soil and topography of the Lamorinda area who could help answer the question.

As a member of the Lamorinda Winegrowers Association (LWGA), Rey is coordinating the group's effort for Lamorinda to be designated as an American Viticultural Area (AVA), or a distinct winegrowing region also known as an appellation. The AVA is essentially the geographic pedigree of an area's wine. A Lamorinda-specific appellation has been a goal of the winegrowers' organization since its inception, but it's a complex, multi-faceted process that will likely take a few years to achieve. The LWGA has to demonstrate that this area has a microclimate, soil, and topography that are unique and distinctive. While not part of the original plan, Rey's dig will likely provide data regarding the nature of the soil and topography of the area for the application.

Not long after Rey made his fossil discovery, Mike Oskin, an Associate Professor of Geology at the University of California Davis who has been consulting with the LWGA on the AVA application, spent a day with Rey driving around Lamorinda exploring exposed rock and soil. In Rey's wine cave dig, Oskin found the shallow marine sandstone to be consistent with the published geological maps for the Lamorinda area, which dates the fossils to six to 10 million years ago in the late Miocene period. "Sedimentary rocks of that age are not all that uncommon in this area if you know where to find them," says Oskin, but he admits the wine cave dig presented a good opportunity to observe Lamorinda's underground. Today, Rey's property lies between 600 and 660 feet above sea level, and Oskin acknowledges that these findings support the fact that the area was once under water.

After a total of 6 weeks the wine excavation is finally complete, but Rey is not frustrated by the delay posed by the fossil-rich rock. "The lime-rich marine fossils combined with sandstone is a good combination for growing grapevines," says Rey. "It's a positive attribution to the terroir (growing environment) of my vineyard."



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