

Appendix E: Paleontological Records Search

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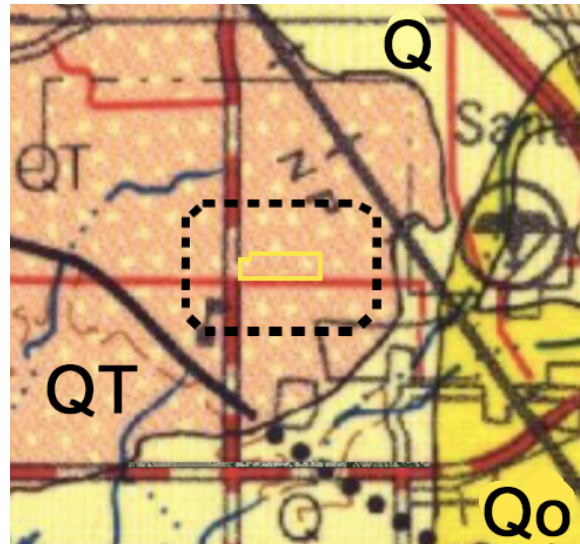
Re: Paleontological Records Search: Stoneridge Subdivision Project (5144.0001), City of Santa Rosa, Sonoma County

Dear Dr. DePietro:

As per your request, I have performed a records search on the University of California Museum of Paleontology (UCMP) database for the proposed Stoneridge Subdivision project in Santa Rosa. This 26.5 project site is on flat terrain on the east side of Fulton Road, between Tedeschi Drive and Orleans Street. Its PRS location is S½, S½, SE¼, Sec. 5, T7N, R8W, Sebastopol quadrangle (2015 USGS 7.5'-series topographic map). Google Earth imagery shows the parcel is barren of structures, mostly covered with grass and a few trees in the NW and SW corners. It may have been used as an agricultural field in the past.

Geologic Mapping

On the part of the Wagner and Bortugno (1982) geologic map shown here, the surface of the project site (yellow outline at center) and surrounding half-mile search area (dashed black outline) are entirely on Pliocene beds of the Huichica and Glen Ellen Formations (QT). The other units shown on this part of the map are Holocene alluvium (Q) and older (late Pleistocene) alluvium (Qo); being younger than QT, neither would be present in the subsurface of the project site.



Paleontological Records Search

A paleontological records search of the UCMP database revealed that Sonoma County has 10 late Pleistocene (Rancholabrean) vertebrate localities. The recovered fossils include *Clemmys* (Western pond turtle), *Mammut americanum* (American mammoth), *Bison antiquus* (extinct bison), *Glossotherium harlani* (Harlan's ground sloth), *G. robustus* (robust ground sloth), and *Equus* (horse). Although there are 11 Pliocene vertebrate localities in Sonoma County, none are in the Huichica or Glen Ellen formations. Sonoma County is also represented by 11 Pliocene plant lo-

calities in the Sonoma Tuffs (Sonoma Volcanics), which yielded a diverse Pliocene flora that includes numerous type specimens established by Dorf (1930), but that unit is not mapped in the vicinity of the project site.

Paleontological Assessment and Mitigation Recommendations

Although the Glen Ellen or Huichica formations are continental deposits that could contain significant paleontological resources, no significant paleontological resources are recorded from those units on the UCMP database. Hence, the project site appears to have no paleontological potential or sensitivity. I therefore do not recommend a pre-construction paleontological walkover of the site or paleontological monitoring of earth-disturbing activities. In the highly unlikely event that any significant fossils (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants) are unearthed, construction activities are to be diverted at least 15 feet away from the discovery until a professional paleontologist assesses the find for possible salvage and deposition in an appropriate repository such as the UCMP.

Sincerely,

A handwritten signature in black ink that reads "Ken Finger". The signature is written in a cursive, flowing style.

References Cited

- Dorf, E., 1930, The Pliocene floras of California: Sonoma flora. Carnegie Institute of Washington Publication 412: 37-48.
- Wagner, D.L., and Bortugno, E.J., 1982, Geologic map of the Santa Rosa quadrangle, California, 1:250,000. California Geological Survey, Regional Geologic Map Series, Map No. 2A (Geology).