



# CALIFORNIA DEPARTMENT OF CONSERVATION CALIFORNIA GEOLOGICAL SURVEY

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## Geologic Map (REVISED) RELEASE May 27, 2010

### Geologic Data Map (GDM) - 2

Compilation and Interpretation by:  
Charles W. Jennings (1977)

Updated Version by:  
Carlos Gutierrez, William Bryant, George Saucedo, and Chris Wills (2010)

Graphics by:  
Milind Patel, Jim Thompson, Barbara Wanish, Milton Fonseca

The 2010 Geologic Map of California includes modifications to the fault traces for consistency with the 2010 edition of the Fault Activity Map of California. Due to the complexity of the onshore geologic data depicted on the Geologic Map of California, it was not technically feasible to incorporate the detailed fault data in its entirety. A comparison of the datasets was made and numerous fault traces were replaced with simplified fault traces based on the new fault map. In addition, several faults that have been mapped since the compilation of the original geologic map were also identified and added, and traces no longer believed to be faults were removed. In general, the Quaternary faults shown in the onshore region of this map are intended to be a simplified representation of the faults depicted on the Fault Activity Map. Although the modification of faults in some areas necessitated the modification of bedrock geology adjacent to those faults, the distribution of bedrock geologic units compiled by Jennings (1977) has otherwise not been modified.

Jennings (1977) simplified the depiction of Quaternary geologic units on the original map. As he put it: "various surficial deposits of Quaternary age are lumped into the unit 'Q'." Since Jennings' work, subdivision of these deposits have been found to have very different potential for liquefaction and for amplification of seismic shaking. Relative age of Quaternary alluvial fan deposits have also been found to correlate with potential for flooding. Since these units are important for evaluation of geologic hazards, the 2010 update of the geologic map includes a subdivision of Jennings "Q" into younger alluvium time and represents the modern deposition in flood plains and on alluvial fans. Older alluvium is generally of Pleistocene age and represents depositional systems that are not currently active.

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801 K Street, MS 14-34  
Sacramento, CA 95814  
Phone: (916) 445-5716  
Fax: (916) 327-1853

Gary Taylor  
Senior Engineering Geologist

345 Middlefield Road, MS 520  
Menlo Park, CA 94025  
Phone: (650) 688-6327  
Fax: (650) 688-6329