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CALIFORNIA GEOLOGICAL SURVEY
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SPECIAL REPORT RELEASE

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SPECIAL REPORT 217 (REVISED)

**GEOLOGIC COMPILATION OF QUATERNARY
SURFICIAL DEPOSITS IN SOUTHERN CALIFORNIA**

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The Department of Conservation, California Geological Survey (DOC/CGS), with funding from the Department of Water Resources (DWR), has completed an update of the Geographic Information System (GIS)-based compilation of high-resolution geologic maps of Quaternary age and older deposits in southern California from Santa Barbara to San Diego. The revision includes the addition of geologic mapping for seven new 30' x 60' quadrangles and the revision of five quadrangles previously mapped under the 2010 edition of the report. Special Report 217 merges existing geologic mapping by various authors, and at different scales, into a common seamless format that normalizes and differentiates alluvial fan deposits, related Quaternary deposits, and various older deposits into 40 derivative units at a scale of 100,000 for the entire area. Quaternary surficial deposits are divided into four main age categories: late Holocene=most recent; Holocene to late Pleistocene=young; late to middle Pleistocene=old; and middle to early Pleistocene= very old. The derivative geologic mapping is based primarily on available digital data from 30' x 60' quadrangles recently compiled by CGS and the U.S. Geological Survey.

The compilation covers selected portions of a 10-county area currently of interest to DWR and the Governor's Alluvial Fan Task Force (AFTF), including San Bernardino, Riverside, Los Angeles, Ventura, Santa Barbara, San Luis Obispo, Kern, Orange, Imperial and San Diego counties. The AFTF was charged in 2007 to review the state of knowledge regarding alluvial fan floodplains and develop recommendations that would be specific to alluvial floodplain management. CGS Special Report 217 was designed as a regional-scale planning tool to assist DWR, the AFTF, and local communities in evaluating future development on alluvial fans. The primary delivery format is intended to be both a GIS-based dataset and an interactive online web map viewer. A Portable Document File (PDF) version of the 100,000 scale derivative maps is also provided to assist elected officials, local floodplain managers, developers, environmental groups, representatives from various governmental agencies, and the public in the rapid identification of areas subject to previous and potential future flooding and other geologic hazards on alluvial fans and floodplains.

Special Report 217 is available as a free download from the California Geological Survey Website (www.conservation.ca.gov/cgs) or as a DVD for \$ 45 plus \$8 shipping and handling.

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