Quaternary

BATHYMETRIC CONTOUR INTERVAL 10 METERS

TRUE NORTH

1.0 KILOMETER = 0.869 NAUTICAL MILES

SCALE 1:24 000

2013

CALIFORNIA GEOLOGICAL SURVEY

DISCUSSION

The offshore geology of the Carpinteria Area is established by source rock

refugia away from the southern boundary and along the eastern margin of the

offshore bedrock exposures are assigned to the Miocene Monterey Formation

Coarser grained deposits (coarse sand to boulders) of unit

Pepperwood Formation and Sisquoc Formation (Early to Late Miocene)

Beds where location is certain, short-dashed where location is inferred, dotted

likely an important potential earthquake hazard (see, for example, Fisher and

Minors and others (2003a,b), Tan and Clahan (2004), and Minor and others

Quaternary, which are recognized on the basis of their moderate

Monterey Formation is the primary petroleum source rock in the Santa Barbara

and gravel

ranges from poorly sorted and disrupted to moderately to poorly sorted

and shale, with subordinate amounts of dolomite, porcelanite, breccia, glauconitic

and shale, with subordinate amounts of porcelanite and dolomite

Pico Formation, undivided (Pleistocene and Pliocene)

Landslide deposits (Holocene and late and middle Pleistocene)

34°25' N. 120° W.

earlier Pliocene and late Miocene)

Rincon Creek Fault and the north and south strands of the Red Mountain Fault. The

and gravel

mudstone and shale, with subordinate amounts of dolomite, porcelanite, breccia,

and shale, with subordinate amounts of dolomite, porcelanite, breccia, glauconitic

older alluvial deposits (late and middle Pleistocene)

—Moderately to poorly sorted and moderately to poorly bedded sandy clay,

—Coarse sand, gravel, cobbles, and

—Nonmarine siltstone and silt, sandstone and sand, and

—Strata of the Pico, Sisquoc, and Monterey Formations (Pliocene to Miocene)

—Nonmarine siltstone and silt, sandstone and sand, and

—Claystone, siltstone, and sandstone; locally pebbly, where thin sheets of sandstone

—Claystone, siltstone, and sandstone; locally pebbly

—Claystone, siltstone, and sandstone, with subordinate amounts of dolomite, porcelanite,

—Mostly marine sandstone, with intervals of mudstone and shale

—Claystone, siltstone, sandstone, and conglomerate

—Marine, predominantly well-bedded, siliceous and calcareous

—Predominantly well-bedded siliceous and calcareous mudstone and shale

—Interbedded conglomerate, sandstone, and mudstone

—Nonmarine siltstone and silt, sandstone and sand, and

—Claystone, siltstone, and sandstone, with subordinate amounts of dolomite, porcelanite,

—Coarse sand, gravel, cobbles, and

—Interbedded conglomerate, sandstone, and mudstone

—Interbedded sandstone and mudstone

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