60-26

Geologic map of the Beverly Hills and Venice quadrangles, California

By R. O. Castle

EXPLANATION

Recent

af

Artificial fill

Derived chiefly from natural deposits adjacent to or near fill site. Some of larger more recent fills derived from more distant sources

afb

Artificial beach deposits

Artificial beach deposits, Qafb, derived entirely from sewage disposal plant excavation in sands at El Segundo

Qal

Alluvium

Wide compositional range, but composed mainly of gravelly material embedded in sand-clay-silt matrix. Alluvium in West Hollywood and eastern Beverly Hills somewhat unique in that it is composed of grus-like material. Locally forms very thin veneer over older deposits

Qfp

Flood-plain deposits

Composed chiefly of well-sorted very fine to medium grained sand at surface. Underlain in part, at depths of 5-10 ft, by clean gravelly material. Derived from both local and distant sources

Qm

Marsh deposits

Ephemerally wet. In part reclaimed through elaborate dike system. Consist largely of organic rich tidal muds interbedded with flood-plain deposits of Ballona Creek

Qs

Swamp deposits

Chiefly organic debris

Qrb

Recent beach deposits

Composed of well sorted medium- to coarse-grained sand. Very light-gray in color

Qdm

Modern dune sand

Very well sorted clean medium-grained sands. Very light gray in color

Pleistocene

Qalo

Older alluvium

Occurs chiefly as dissected alluvial fan deposits. Transitional in part with younger alluvium and compositionally similar to it. Deposits in western part of area characterized by slate and cherty fragments. Slate becomes less prominent and granitic fragments more prominent toward east. Generally medium to dark gray in color and commonly weathers to deep red brown

Qac

Cap deposits

Poorly sorted arkosic sand and sandstone. Commonly very well indurated. Light buff-gray on unweathered surfaces and commonly weathers to deep red-brown color. Locally forms prominent bluffs 10-12 ft high. Confined to Baldwin Hills area

Qda_1 / Qda_2 / Qda_3 / Qda

Ancient dune sand

Very well sorted, medium- to coarse-grained sand. Extensively iron stained and very well indurated locally. Deposits delimited with respect to age in southern part of map area: oldest deposits, Qda_3, more extensively iron stained and indurated than those of progressively younger deposits, Qda_2 and Qda_1. Qda, undifferentiated with respect to age

Upper (?) Pliocene

Qtg / Qbsi / Qbu / Qbs

B formation

B formation, Qbu, composed chiefly of unconsolidated coarse- to medium-grained sand, commonly somewhat pebbly or cobbly. Layers or lenses of very fine sand to clay developed locally. Gravelly (Qbg), relatively pure sand (Qbs), and very fine sand to clay-silt (Qbsi) facies differentiated locally. Chiefly or entirely of marine origin

UNCONFORMITY

Plio-Pleistocene (?)

Tqa

Anchor silt

Chiefly very fine grained sand to silt with scattered thin lenses of coarser material. White to very light gray in color. Entirely marine. Exposed only in the Cheviot Hills area

TQ

A formation

Chiefly silt to very fine sand, but coarser sands and pebbly materials occur uncommonly in higher parts of section. Locally clay-rich, particularly along northwest flank of Baldwin Hills. Commonly thinly laminated and well bedded. Color varies from deep blue gray to light buff gray and weathers to buff color. Entirely marine. Confined to Baldwin Hills area

Miocene

Tp

Pico formation

Chiefly clay-silt shale. Medium to dark gray in color. Occurs only in vicinity of Brentwood Country Club

UNCONFORMITY

Tml

Modelo formation
lower member

Composed entirely of well-bedded, coarse- to medium-grained sandstone in those areas where it is mapped. Differentiated south of Sunset Blvd. only

UNCONFORMITY

Pre - Cretaceous

Pkbc

Pre-Cretaceous granitic rocks

Differentiated at and south of Sunset Blvd. only

ub

Undifferentiated bedrock

All bedrock north of Sunset Blvd. is designated here as undifferentiated

QUATERNARY

TERTIARY - QUATERNARY

PRE-TERTIARY AND TERTIARY

Contact

Dashed where approximately located

Indefinite or inferred contact

Fault

Dashed where approximately located; dotted where concealed

Indefinite or inferred fault

Dotted and question marked where probably concealed beneath surficial deposits

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Strike and dip of small fault

Barbs on apparent upthrown side of fault. Displacement (separation) less than 2 ft

Strike and dip of beds

Horizontal beds

Base of scarp or break in slope

Shown only within mapped units, not shown at contacts between mapped units

ls

Landslide

Eolian veneer

Pattern used where eolian sands form thin veneer up to 6 ft thick over older deposits

Approximate location of minor landslide

Megafossil horizon

Pit

Structural data shown in red based on observations of H. W. Hoots and G. B. Moody

Scratch contact

This contact would appear on finished map as pattern or color boundary only

Note: line A-A' - A"-A"' and similar lines refer to cross sections that are not being open-filed and therefore should be disregarded