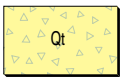
PHANEROZOIC

CAINOZOIC

QUATERNARY

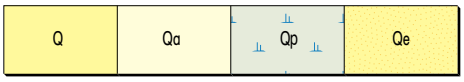
Coastal deposits:

Qb Beach ridges—calcareous sand
Ql Lagoonal and estuarine deposits—clay, silt, marl, and shell beds
Qs Eolian dunes—calcareous and quartz sand
Qsm Mobile eolian dunes



TAMALA LIMESTONE: eolian limestone and sandstone with secondary concretionary and residual calcareous and quartz sand deposits, coral reef at Leander Point, minor shell beds and marl

Inland deposits:

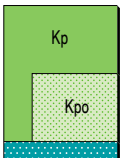


Q Mixed unit of colluvial, residual, and floodplain deposits—sand, silt, and clay
Qa Alluvium—sand, silt, and clay
Qp Swamp and lacustrine deposits—clay, silt, and diatomite
Qe Non-calcareous sand reworked by eolian processes

Czl Ferruginous laterite
Czls Leached quartz sand associated with laterite

MESOZOIC

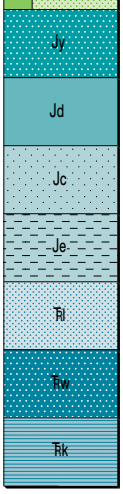
CRETACEOUS



PARMELIA FORMATION: feldspathic sandstone, siltstone, shale

Otorowiri Member: siltstone, mudstone, and feldspathic sandstone

JURASSIC



YARRAGADEE FORMATION: feldspathic sandstone, siltstone, shale; minor coal

CADDA FORMATION: siltstone, sandstone, and shelly limestone

CATTAMARRA COAL MEASURES: sandstone, siltstone, carbonaceous shale, and coal

ENEABBA FORMATION: thinly bedded sandstone, multicoloured siltstone; rare coal (section only)

TRIASSIC

LESUEUR SANDSTONE: medium- to coarse-grained sandstone (section only)

WOODADA FORMATION: sandstone and siltstone (section only)

KOCKATEA SHALE: shale, siltstone; minor sandstone

Subsurface units

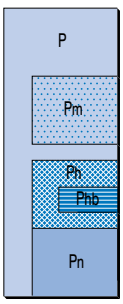
Undifferentiated Jurassic or Permian units

PALAEOZOIC

PERMIAN

DONGARA SANDSTONE: bioturbated clayey sandstone; minor conglomerate, mudstone, and siltstone (section only)

Subsurface unit



Undifferentiated Permian units; also includes **IRWIN COAL MEASURES, CARYNGINIA FORMATION,** and **HIGH CLIFF SANDSTONE**

MINGENEW FORMATION: ferruginous sandstone, shale, siltstone; minor conglomerate

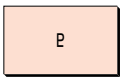
HOLMWOOD SHALE: shale, siltstone, and limestone

Beckett Member: shale and concretionary limestone

NANGETTY FORMATION: shale; minor sandstone and tillite

PERTH BASIN

PROTEROZOIC



Undifferentiated Proterozoic rocks

MULLINGARRA GNEISS: quartzo-feldspathic to pelitic gneiss (section only)

Subsurface units

PINJARRA OROGEN