



LAND CONSERVATION COUNCIL
VICTORIA
BALLARAT AREA
GEOLOGY

| Era | Period | Epoch | Time Scale million years | Geological event | Sedimentary | | | | | Igneous | |
|------------|------------|---------------|-----------------------------|--|-------------|-----------|----------|-------|--------|-----------|-----------|
| | | | | | Asiatic | Colluvial | Alluvial | Loess | Marine | Extensive | Intensive |
| CENOZOIC | QUATERNARY | RECENT | 0-15 | • Brown deposition and coarse adjustments to low flows | Qd | Qa | Qc | Qe | | Qv | |
| | | PLEISTOCENE | | | | | | | | | |
| | | | | | | | | | | | |
| | TERTIARY | PLIOCENE | 18 | • Earth movements and volcanicity • Large rivers depositing gravel (beds) | Tp | | | | | Tv | |
| | | MIOCENE | 22-5 | • Retreat of sea | | | | | | | |
| | | OLIGOCENE | 30 | • Incursion of sea from south | | | | | | | |
| | | Eocene | 55 | | | | | | | | |
| | | PALAEOCENE | 65 | • Extensive period of erosion | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| PALAEOZOIC | DEVONIAN | UPPER | 360 | • Intrusion of granite | | | | | | | |
| | | MIDDLE | | | | | | | | | |
| | | LOWER | | | | | | | | | |
| | SILURIAN | | 418 | • Intrusion of granite • Erosion of non-marine sediments • Development of non-marine sedimentation • Acid volcanicity on land | | | | | | | |
| | | | | | | | | | | | |
| | ORDOVICIAN | Yapeenian | 445 | • Intrusion of granite • Continued marine sedimentation in quaternary | | | | | | | |
| | | Castlemian | | | | | | | | | |
| | | Chewtonian | | | | | | | | | |
| | | Bendigoian | | | | | | | | | |
| | CAMBRIAN | Lancefieldian | 508 | | | | | | | | |
| | | UPPER | | | | | | | | | |
| | | MIDDLE | | | | | | | | | |
| | | LOWER | 575 | • Basic volcanicity on sea floor with some sedimentation; initial life in greenstone | | | | | | | |

- Fault
— Normal fault
— Reverse fault
— Fault inferred
— Anticline
— Syncline
— Dyke
• Site of geological interest
• Contact metamorphism—barrois,
quartzite, quartzite
• Contact metamorphism—schist,
hornblende schist, spotted hornfels
• Eruption point
• Tuff ring, maar
— Study area boundary

