Appendix A – Locality Map

Legend

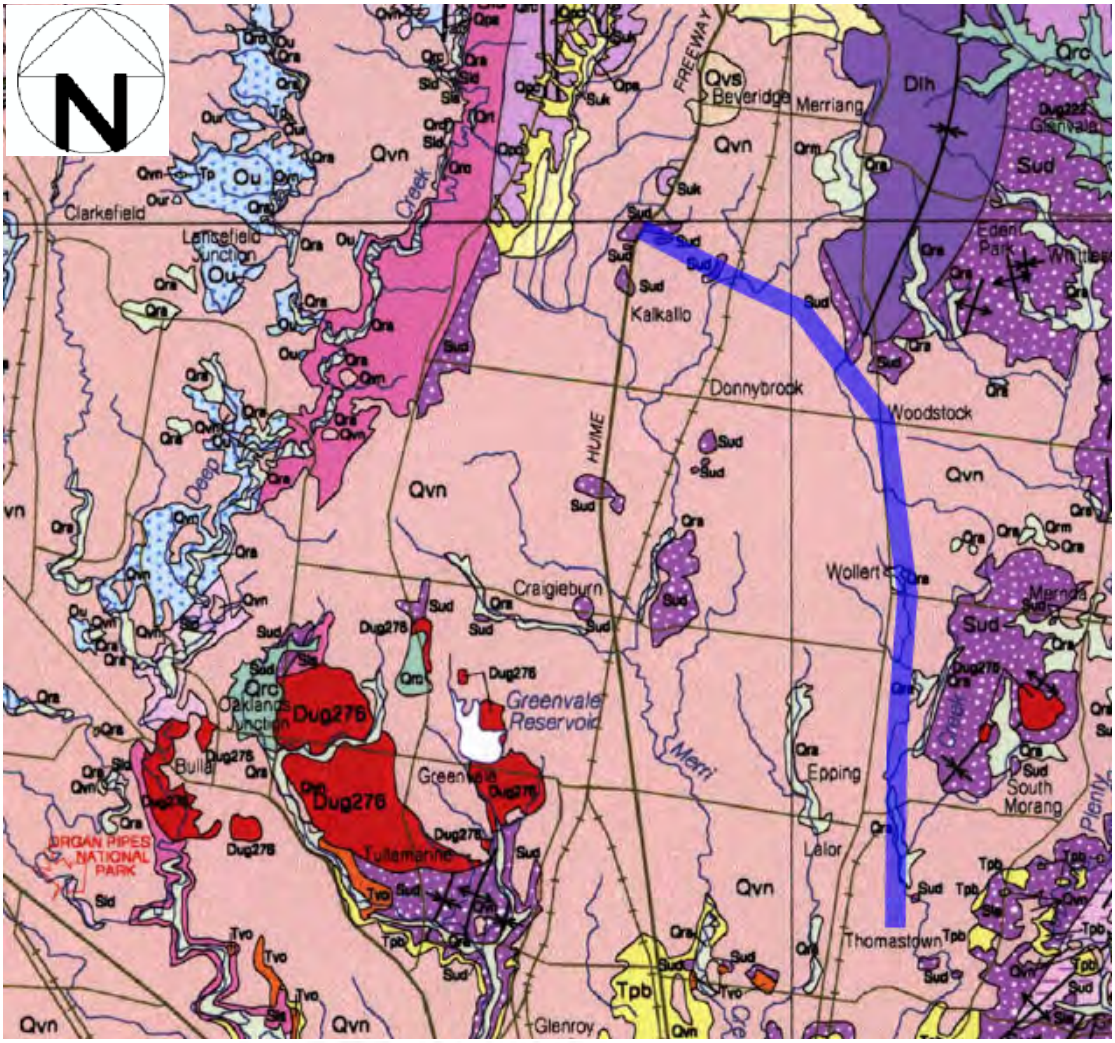
- Outer Metropolitan Ring Transport Corridor Concept
- E6 Transport Corridor Concept
- Municipal Boundary

Note; Actual locations of Transport Corridors are to be subject of investigation and decision.

Outer Metropolitan Ring Road & E6 Transport Corridor Concepts

LK -04 OMR & E6 lines approxcal Feb 09

Appendix B – Geological Maps



Abstract from Geological Survey of Victoria Map 1:250000, MELBOURNE sheet, SJ 55-5 Edition 2, May 1997

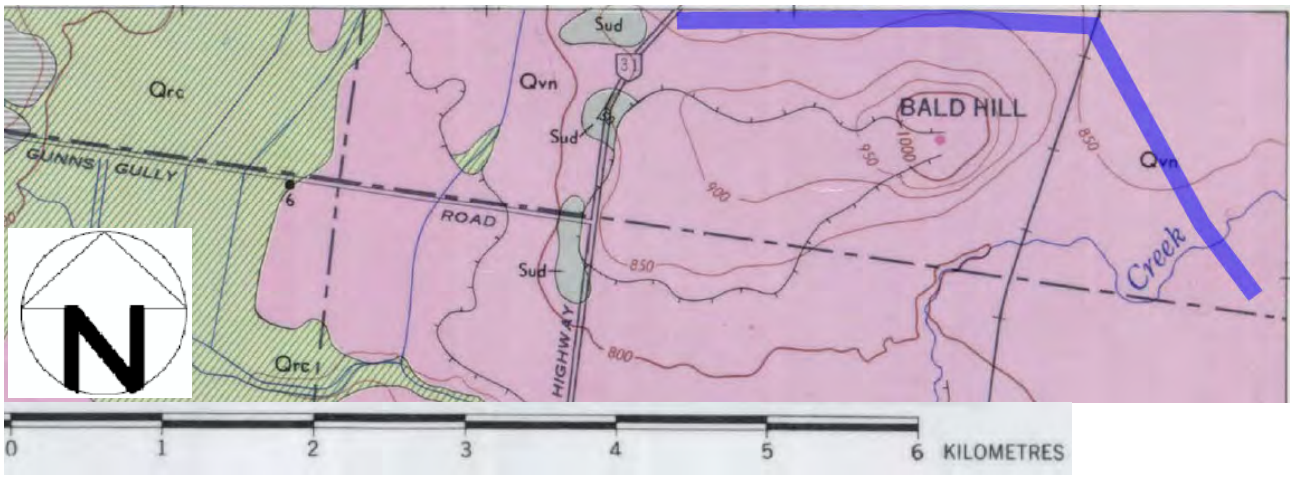
Note that the added line represents the approximate centre of the proposed corridor

QUATERNARY	MOSTLY HOLOCENE	Qra			Qra	*Fluvial: alluvium, gravel, sand, silt*
		Qrc			Qrc	*Fluvial: "gully" alluvium, colluvium: gravel, sand, silt*
		Qrm			Qrm	*Paludal: lagoon and swamp deposits: silt, clay*
		Qrt			Qrt	*Fluvial: alluvial terraces: gravel, sand, silt*
	HOLOCENE TO PLEISTOCENE	Qrd			Qrd	*Aeolian: coastal and inland dunes: dune sand, some swamp deposits*
	PLEISTOCENE	Qpa			Qpa	*Fluvial: gravel, sand, silt*
		Qpc			Qpc	*Fluvial: "gully" alluvium, colluvium: gravel, sand, silt*
		Qps		Lara Limestone	Qps	*Lacustrine: limestone, minor sand*
		Qpy		Coode Island Silt	Qpy	*Paludal: lagoon deposits: black silt, clay*
		Qp2			Qp2	*Fluvial: gravel, sand, silt*
		Qs		Shepparton Formation	Qs	*Fluvial: silt, sand, minor gravel*
		Qpd			Qpd	*Aeolian: dune deposits: sand, clay, calcareous sand*
	HOLOCENE TO PLIOCENE	Tpo			Tpo	*Fluvial: post-Newer Volcanic hillwash: gravel, sand, silt*
		Tpe			Tpe	*Fluvial: post-Newer Volcanics silt, sand, minor gravel*
		Qvs	NEWER VOLCANICS		Qvs	*Extrusive: scoria*
		Qvn			Qvn	*Extrusive: tholeiitic to alkaline basalts, minor scoria and ash*
		Qvt			Qvt	*Extrusive: alkaline series: trachyte, mugearite, hawaiite, benmoreite*
TERTIARY	PLIOCENE TO MIOCENE	Tpb	BRIGHTON GROUP		Tpb	*Fluvial: gravel, sand, silt*
		Tp		undifferentiated	Tp	*Fluvial: gravel, sand, silt*
	MIOCENE	Tmn		Newport Silt, Fyansford Clay	Tmn	*Marine: glauconitic silt, marl, minor limestone*
		Tmv		Pintadeen Basalt, unnamed Miocene basalts	Tmv	*Extrusive: olivine tholeiites*
	OLIGOCENE	Tom		Maude Formation (incl Maude Basalt)	Tom	*Marine: limestone, calcareous sandstone, sandstone, quartite, sandy limestone, with intercalated olivine basalt lava*
	EOCENE TO OLIGOCENE	Tvo	OLDER VOLCANICS		Tvo	*Extrusive: tholeiitic and minor alkaline basalts*
	EOCENE	Tew		Werribee Formation	Tew	*Fluvial: sand, sandy and silty clay, carbonaceous, pyritic in part*
TRIASSIC		TRc		Council Trench Formation	TRc	*Fluvial: conglomerate, sandstone, siltstone*
PERMIAN		P		Wild Duck Formation and undifferentiated	P	*Fluvioglacial, glaciomarine: tillite, diamictite, sandstone, mudstone, conglomerate*
DEVONIAN	UPPER	Duh			Duh	*Metamorphic: hornfels*
		Dud			Dud	*Intrusive: felsic dykes*
		Dug			Dug	*Intrusive: granite*
		Dvd4	MOUNT DANDENONG IGNEOUS COMPLEX	Ferny Creek Rhyodacite	Dvd4	*Extrusive: biotite-hypersthene rhyodacite ignimbrite, recrystallized*
		Dvd3		Kalorama Rhyodacite	Dvd3	*Extrusive and lacustrine: garnet-bearing rhyodacite ignimbrite, recrystallized; siltstone*
		Dvd2		Mount Evelyn Rhyodacite	Dvd2	*Extrusive: rhyolite to rhyodacite ignimbrite, welded*
		Dvd1		Coldstream Rhyolite	Dvd1	*Extrusive: rhyolite lava, coherent flow-banded to autobrecciated*
		Dvm2	MACEDON VOLCANICS	Willimigongong Ignimbrite	Dvm2	*Extrusive: biotite-hypersthene rhyodacite ignimbrite, recrystallized*
		Dvm1		Hesket Ignimbrite	Dvm1	*Extrusive: rhyolite ignimbrite, welded*

DEVONIAN	LOWER	Dlwm	WALHALLA GROUP	Montys Hut Formation	Dlwm	*Marine: thin-bedded sandstone, siltstone*
		Dlwn		Norton Gully Sandstone	Dlwn	*Marine: sandstone, thick to thin bedded, siltstone, minor conglomerate, limestone lenses*
		Sjg	JORDAN RIVER GROUP	Wilson Creek Shale	Sjg	*Marine: black shale, black siltstone*
		Dlc		Waratah Limestone	Dlc	*Marine: limestone, massive mid-grey recrystallized*
		Dlh		Humevale Siltstone	Dlh	*Marine: siltstone, minor sandstone*
		Dl		undifferentiated	Dl	*Marine: sandstone, mudstone*
SILURIAN TO DEVONIAN		SDk		Kerrie Conglomerate	SDk	*Fluvial, lacustrine: conglomerate, massive, sandstone, siltstone*
SILURIAN	UPPER	Sub		Broadford Formation	Sub	*Marine: thin to thick bedded siltstone, sandstone,conglomerate*
		Sui		McIvor Sandstone	Sui	*Marine: sandstone, mudstone, thick to thin bedded*
		Sud		Dargile Formation	Sud	*Marine: siltstone, thin-bedded sandstone*
		Suk		Kilmore Siltstone	Suk	*Marine: siltstone, sandstone, thin bedded*
		Sum		Melbourne Formation	Sum	*Marine: sandstone, mudstone, mediun to thin bedded*
	LOWER	Slp		Wapentake Sandstone	Slp	*Marine: sandstone, thick to thin bedded, siltstone, conglomerate*
		Sls		Springfield Sandstone and Chintin Formation	Sls	*Marine: sandstone, thick to thin bedded, siltstone, conglomerate*
		Sla		Anderson Creek Formation	Sla	*Marine: sandstone, thick to thin bedded, siltstone, minor conglomerate*
		Sld		Deep Creek Siltstone	Sld	*Marine: siltstone, thin-bedded, minor sandstone, conglomerate*
ORDOVICIAN	UPPER	Oub		Bolinda Shale, Darraweit Guim Siltstone	Oub	*Marine: black shale, thin bedded sandstone, calcareous siltstone*
		Our		Riddell Sandstone	Our	*Marine: sandstone, thin to thick bedded, shale, mudstone, minor conglomerate*
		Ou		undifferentiated	Ou	*Marine: sandstone, shale, mudstone*
	LOWER	Ol	CASTLEMAINE SUPERGROUP / ROMSEY GROUP		Ol	*Marine: sandstone, siltstone, shale, chert*
		Olm			Olm	*Marine: sandstone, siltstone, shale, chert; Darriwilian*
		Ola			Ola	*Marine: sandstone, siltstone, shale, chert; Castlemainian (+Chewtonian)*
		Oly			Oly	*Marine: sandstone, siltstone, shale, chert; Yapeenian*
		Oll			Oll	*Marine: sandstone, siltstone, shale, chert; Lancefieldian*
		Olb			Olb	*Marine: sandstone, siltstone, shale, chert; Bendigonian*
		Olh			Olh	*Marine: sandstone, siltstone, shale, chert; Chewtonian*
		Olr			Olr	*Marine: sandstone, thick bedded, siltstone, shale, chert*
CAMBRIAN	UPPER TO MIDDLE	€ug		Goldie Chert	€ug	*Marine: chert, siliceous siltstone, shale, pale-coloured*
		€mm		Knowsley East Shale	€mm	*Marine: shale, volcaniclastic sandston*
	LOWER	€v	MOUNT WILLIAM VOLCANICS		€v	*Extrusive, intrusive: basalt, andesite, boninite, rhyolite, gabbro, lithic sandstone, chert, shale, breccia*

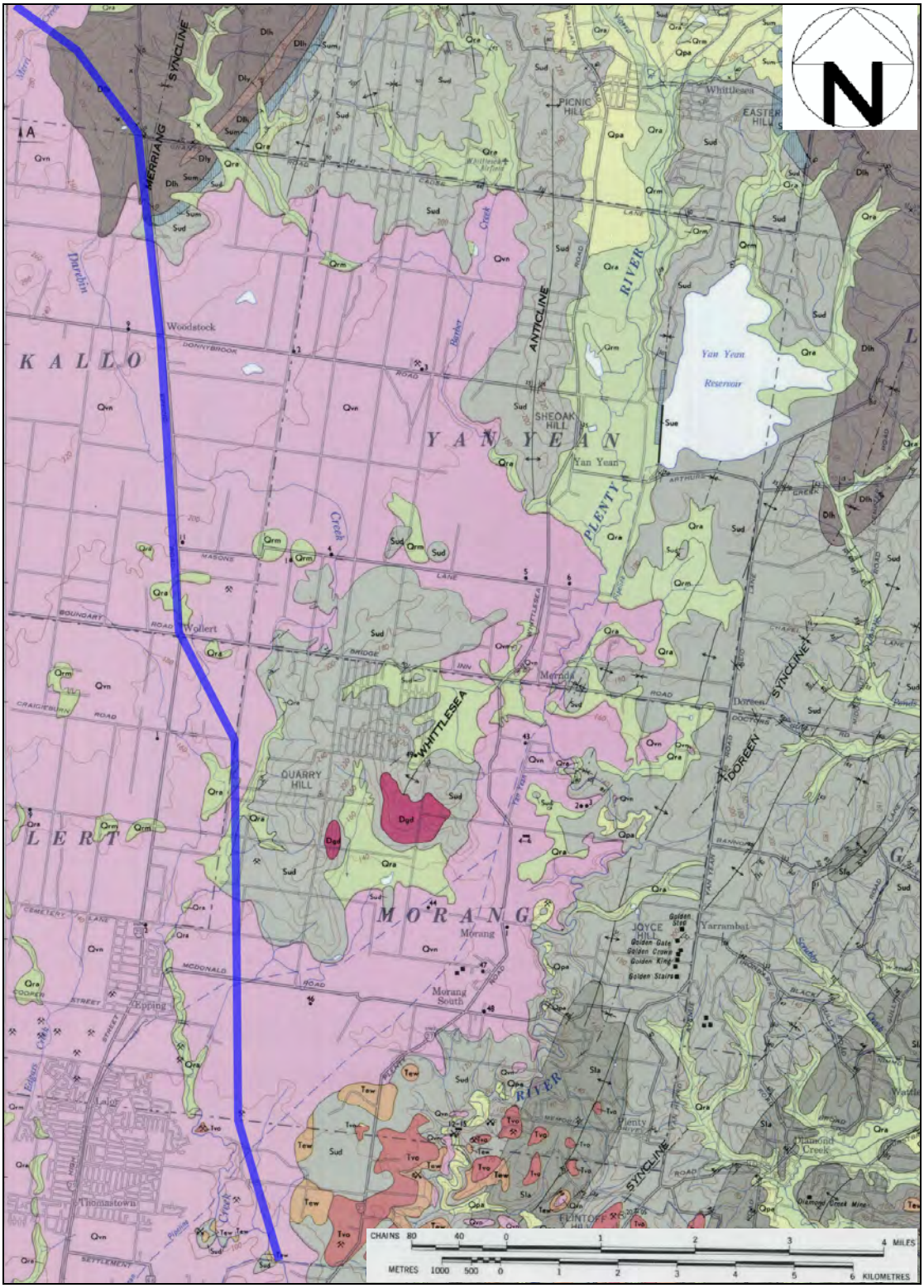
Dug

G217	Strathbogie Granite	*S-type*
G218	Trawool Granite	*S-type*
G219	King Parrot Creek Granodiorite	*S-type*
G220	Flowerdale Granodiorite	*Unassigned*
G221	Mount Disappointment Granodiorite	*I-type*
G222	Glenvale Granodiorite	*Unassigned*
G223	Black Range Granodiorite	*Unassigned*
G240	Silvan Granodiorite	*I-type*
G241	Lysterfield Granodiorite	*I-type*
G275	Morang Granodiorite	*I-type*
G276	Bulla Adamellite	*S-type*
G277	You Yangs Granite	*I-type*
G279	Ingliston Granite	*I-type*
G280	Mount Egerton Granite	*I-type*
G282	Barringo Granodiorite	*I-type*
G283	Pyalong granodiorite	*Unassigned*
G284	Baynton Granodiorite	*I-type*
G285	Beauvallet Granodiorite	*I-type*
G287	Glenaroua Microgranite	*S-type*
G290	Harcourt Granodiorite	*I-type*



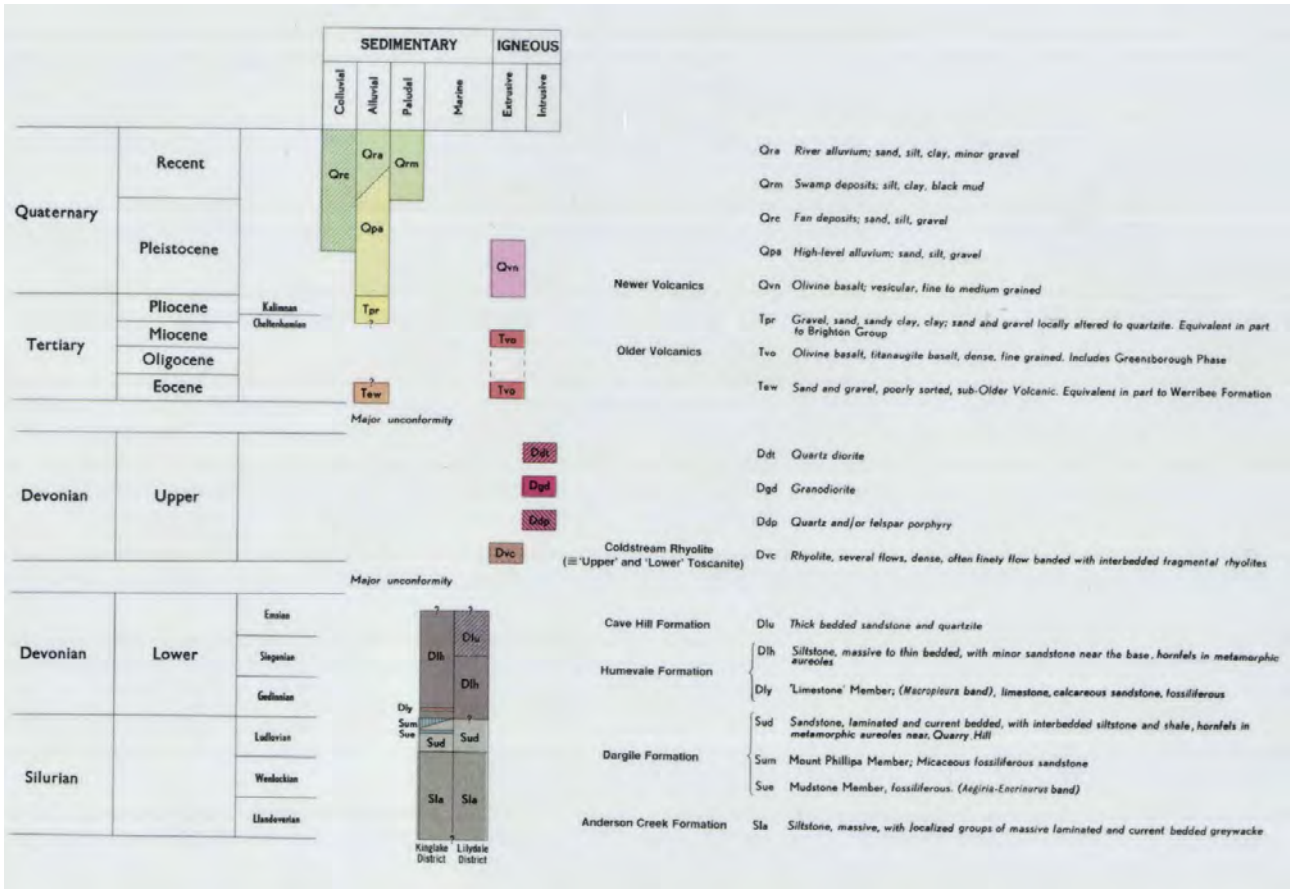
Abstract from Geological Survey of Victoria Map 1:63360, MELBOURNE (Sunbury sheet), Part of 7822 Zone 55, 1974

Note that the added line represents the approximate centre of the proposed corridor



Abstract from Geological Survey of Victoria Map 1:63360, RINGWOOD (Yan Yean sheet), Part of 7922 Zone 55, 1974

Note that the added line represents the approximate centre of the proposed corridor


SEDIMENTARY
IGNEOUS
Colluvial
Alluvial
Paludal
Marine
Extrusive
Intrusive
Quaternary
Recent
Pleistocene
Tertiary
Pliocene
Miocene
Oligocene
Eocene
Kalimnan
Gheltenhamian
Major unconformity
Devonian
Upper
Major unconformity
Devonian
Lower
Emsian
Siegenian
Gedinnian
Silurian
Ludlovian
Wenlockian
Llandoverian
Qrc
Qra
Qrm
Qpa
Tpr
Tew
Qvn
Tvo
Tvo
Ddt
Dgd
Ddp
Dvc
Dlu
Dlh
Dlh
Dly
Sum
Sue
Sud
Sud
Sla
Sla
Kinglake District
Lilydale District
Qra River alluvium; sand, silt, clay, minor gravel
Qrm Swamp deposits; silt, clay, black mud
Qrc Fan deposits; sand, silt, gravel
Qpa High-level alluvium; sand, silt, gravel
Newer Volcanics
Qvn Olivine basalt; vesicular, fine to medium grained
Tpr Gravel, sand, sandy clay, clay; sand and gravel locally altered to quartzite. Equivalent in part to Brighton Group
Older Volcanics
Tvo Olivine basalt, titanaugite basalt, dense, fine grained. Includes Greensborough Phase
Tew Sand and gravel, poorly sorted, sub-Older Volcanic. Equivalent in part to Werribee Formation
Ddt Quartz diorite
Dgd Granodiorite
Ddp Quartz and/or felspar porphyry
Coldstream Rhyolite
(≡'Upper' and 'Lower' Toscanite)
Dvc Rhyolite, several flows, dense, often finely flow banded with interbedded fragmental rhyolites
Cave Hill Formation
Dlu Thick bedded sandstone and quartzite
Humevale Formation
Dlh Siltstone, massive to thin bedded, with minor sandstone near the base. hornfels in metamorphic aureoles
Dly 'Limestone' Member; (Macropleura band), limestone, calcareous sandstone, fossiliferous
Dargile Formation
Sud Sandstone, laminated and current bedded, with interbedded siltstone and shale, hornfels in metamorphic aureoles near Quarry Hill
Sum Mount Phillipa Member; Micaceous fossiliferous sandstone
Sue Mudstone Member, fossiliferous. (Aegiria-Enoplurus band)
Anderson Creek Formation
Sla Siltstone, massive, with localized groups of massive laminated and current bedded greywacke