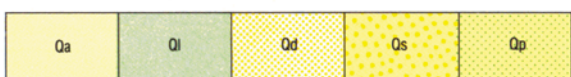


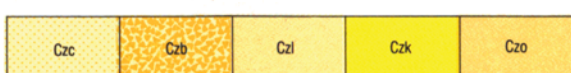
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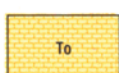
Qa Alluvium — clay, silt, sand, gravel; in drainage channels and adjacent flood plains  
 Ql Lacustrine deposits — clay, silt; saline in part  
 Qd Mixed lacustrine and eolian deposits — clay, silt, sand  
 Qs Eolian sand — in sheets and longitudinal (seif), chain and net dunes  
 Qp Eolian sand — in sheets mixed and veneered with ironstone pebbles derived from Czl and Czc



Qb Eluvium — gilgai, swelling clay soils characterised by "crabholes"; derived from basalt, dolerite or shale  
 Qr Colluvium — mixed gilgai and gravel flood plain; low slope deposit  
 Qw Colluvium and alluvium — clay, silt, sand, gravel in broad sheet wash areas; distinctive vegetation striped photo-pattern  
 Qc Colluvium and minor alluvium — quartz pebble and rock fragments in silt, sand; adjacent to bedrock; scree, talus slope deposits  
 Qe Colluvium and eluvium — clay hardpan, partly ferruginized silt, sand, gravel derived from and overlying Czc and Czb



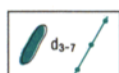
Czc Colluvium — partly consolidated and consolidated ferruginized silt, sand, gravel; valley-fill deposits dissected by present drainage  
 Czb Silcrete — siliceous duricrust; mixed siliceous caprock and colluvium; secondary siliceous breccia  
 Czl Laterite — ferruginous duricrust; massive, nodular, pebbly and pisolitic  
 Czk Calcrete — carbonate in sheets and lenses, usually in major drainage lines; some secondary opaline silica capping  
 Czo Opaline silica — vuggy white opaline silica formed on partly consolidated sandstone and conglomerate deposits



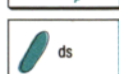
**OAKOVER FORMATION:** vuggy white opaline silica, bedded limestone, calcareous sandstone; restricted to headwaters of Oakover River



q Quartz veins, various ages



d<sub>3-7</sub> Dolerite, metadolerite dykes; includes Murrumbidgee Dolerite; numbers identify different suites, lowest number earliest



ds Amygdaloidal basalt, fine-grained dolerite; in shallow-level sills and dykes  
 dg Medium- to coarse-grained quartz dolerite; in sills and small intrusions



SVb **BOONDAWARI FORMATION:** interbedded diamiclite, mudstone, siltstone, sandstone conglomerate, dolomite  
 SVb(m) Diamiclite containing wide variety of striated, faceted, and polished clasts up to boulder size; interbedded mudstone, siltstone, sandstone, conglomerate  
 SVb(c) Coarse-grained pebbly sandstone, conglomerate  
 SVb(s) Interbedded shale, rhythmic, fine-grained sandstone  
 SVb(l) Interbedded shale, siltstone, dolomite, oolitic dolomite, silicified oolite; some stromatolites



SVM **MUNDADJINI FORMATION:** thick, cross-bedded sandstone, siltstone, minor shale, conglomerate, halite pseudomorphs  
 SVM(d) Dolomite, sandy dolomite



SVC **COONDRA FORMATION:** coarse-grained sandstone, pebbly sandstone, large cross-beds; pebble to boulder conglomerate  
 SVC(r) Cobble to boulder conglomerate; poorly sorted



SVw **WATCH POINT FORMATION:** shale, siltstone, thin-bedded, fine-grained sandstone



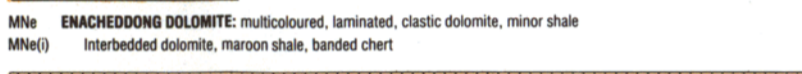
dd **DAVIS DOLERITE:** very fine- to medium-grained dolerite in sills; prominent magnetite  
 dc Medium- to coarse-grained dolerite in sills and small intrusions



MNb **BALFOUR FORMATION:** pale-grey to green-grey manganeseiferous shale, fine-grained micaceous, calcareous and glauconitic sandstone, interbedded red-brown shale, micaceous siltstone  
 MNj **JIGALONG FORMATION:** green silicified glauconitic mudstone, chert, sandstone, pebble conglomerate



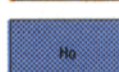
MNe **ENACHEDDONG DOLOMITE:** multicoloured, laminated, clastic dolomite, minor shale  
 MNe(i) Interbedded dolomite, maroon shale, banded chert



MNs **STAG ARROW FORMATION:** interbedded sandstone, siltstone, shale, conglomerate, dolomite, chert  
 MNs(a) Medium- and coarse-grained sandstone, minor glauconite  
 MNs(c) Interbedded quartz sandstone and conglomerate  
 MNs(d) Massive and laminated dolomite, stromatolitic dolomite  
 MNs(g) Interbedded, laminated, fine-grained sandstone, shale and siltstone, commonly glauconitic; contains megascopic algae  
 MNs(s) Shale, siltstone  
 MNs(i) Massive to weakly banded chert



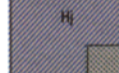
cb **PINJIAN CHERT BRECCIA:** chert breccia, poorly banded chert, overlies CARAWINE DOLOMITE



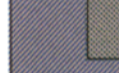
Ho **BOOLGEEDA IRON FORMATION:** fine-grained, finely laminated, dark grey-brown to black flaggy iron-formation, minor chert, jaspilite shale



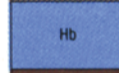
Hw **WOONGARRA VOLCANICS:** rhyolite and rhyodacite as sills or flows; commonly porphyritic, phenocrysts of quartz, feldspar, minor tuff and jaspilite iron-formation



Hj **WEEILI WOLLI FORMATION:** interlayered banded iron-formation, and metadoleritic sills, minor shale



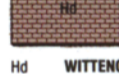
Hjd Medium- to coarse-grained massive grey-green metadolerite sills usually foliated



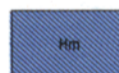
Hb **BROCKMAN IRON FORMATION:** banded iron-formation, chert, shale



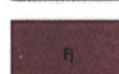
Hs **MOUNT McRAE SHALE and MOUNT SYLVIA FORMATION:** interbedded shale, chert, banded iron-formation



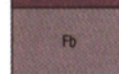
Hd **WITTENOOM DOLOMITE:** interbedded thin chert, shale and dolomite  
 Hc **CARAWINE DOLOMITE:** massive to weakly banded recrystallized dolomite, stromatolitic dolomite, minor chert



Hm **MARRA MAMBA IRON FORMATION:** chert, ferruginous chert, minor shale



Fj **JEERINAH FORMATION:** interbedded shale, chert, sandstone, minor felsic tuff



Fb Mafic volcanic unit; andesitic and basaltic lavas, minor thin tuff units



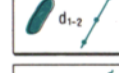
Fs Lower metasedimentary unit; coarse conglomeratic sandstone, shale; partly silicified



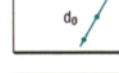
Ft **TUMBIANA FORMATION:** pisolitic tuff, tuff, mudstone, lithic sandstone



Fk **KYLENA BASALT:** dark green amygdaloidal, vesicular and massive basalt



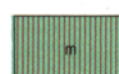
d<sub>1-2</sub> Amphibolite dykes, foliated and lineated; number identifies suite, lowest number earliest



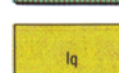
d<sub>0</sub> Schistose amphibolite dykes; intruded into and deformed with JIMBLEBAR GREENSTONE BELT



g Granitoid rocks, undifferentiated, deeply weathered  
 ge Medium-, even-grained metagranite to metagranodiorite  
 gv Medium-grained metagranite to metagranodiorite; sparse feldspar phenocrysts  
 gc Coarse-grained metagranite; feldspar and quartz megacrysts  
 gh Medium-grained metagranite to metagranodiorite; with hornblende and relict clinopyroxene



m Greenstone belt extensively veined by granitoid rocks



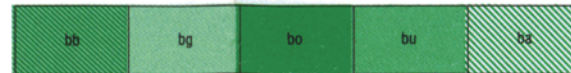
lq Interbedded chert, fuchsilic quartzite, quartzofeldspathic schist, calc-silicate schist, minor pelitic and semi-pelitic schist



i Banded iron-formation, chert, undifferentiated  
 ih Hematite-magnetite-quartz banded iron-formation  
 ia Amphibole (grunerite or minor hornblende)-magnetite-quartz banded iron-formation  
 im Magnetite-quartz banded iron-formation; recrystallized



zc Quartz-chlorite-amphibole-feldspar (- garnet) schist; possibly after tuff  
 zh "Hybrid" intermediate rock; grades into recrystallized garnet-bearing granitoid rock



bb Metabasalt; tholeiitic, locally amygdaloidal  
 bg Metagabbro; medium- and coarse-grained; includes some serpentinite, metaperidotite and metapyroxenite layers  
 bo Metaleucogabbro; < 30% mafic minerals, minor quartz  
 bu Komatiitic metabasalt  
 ba Amphibolite, fine- and medium-grained; lineated and foliated



ua Tremolite-chlorite-talc schist; minor talc-chlorite (serpentine) schist  
 us Serpentine; cumulate textures may be preserved  
 ux Metapyroxenite, amphibole-chlorite rock  
 uz Silicified cap rock developed on ultramafic rocks

CAINOZOIC  
 QUATERNARY  
 TERTIARY

c. 750 Ma

Savory Group

SAVORY BASIN

c. 1050 Ma

Bangemall Group  
 Manganese Subgroup

BANGEMALL BASIN

2500 Ma

Hammersley Group

HAMERSLEY BASIN

c. 2760 Ma

Fortescue Group

SYLVANIA INLIER

ARCHAEAN

> 2760 Ma