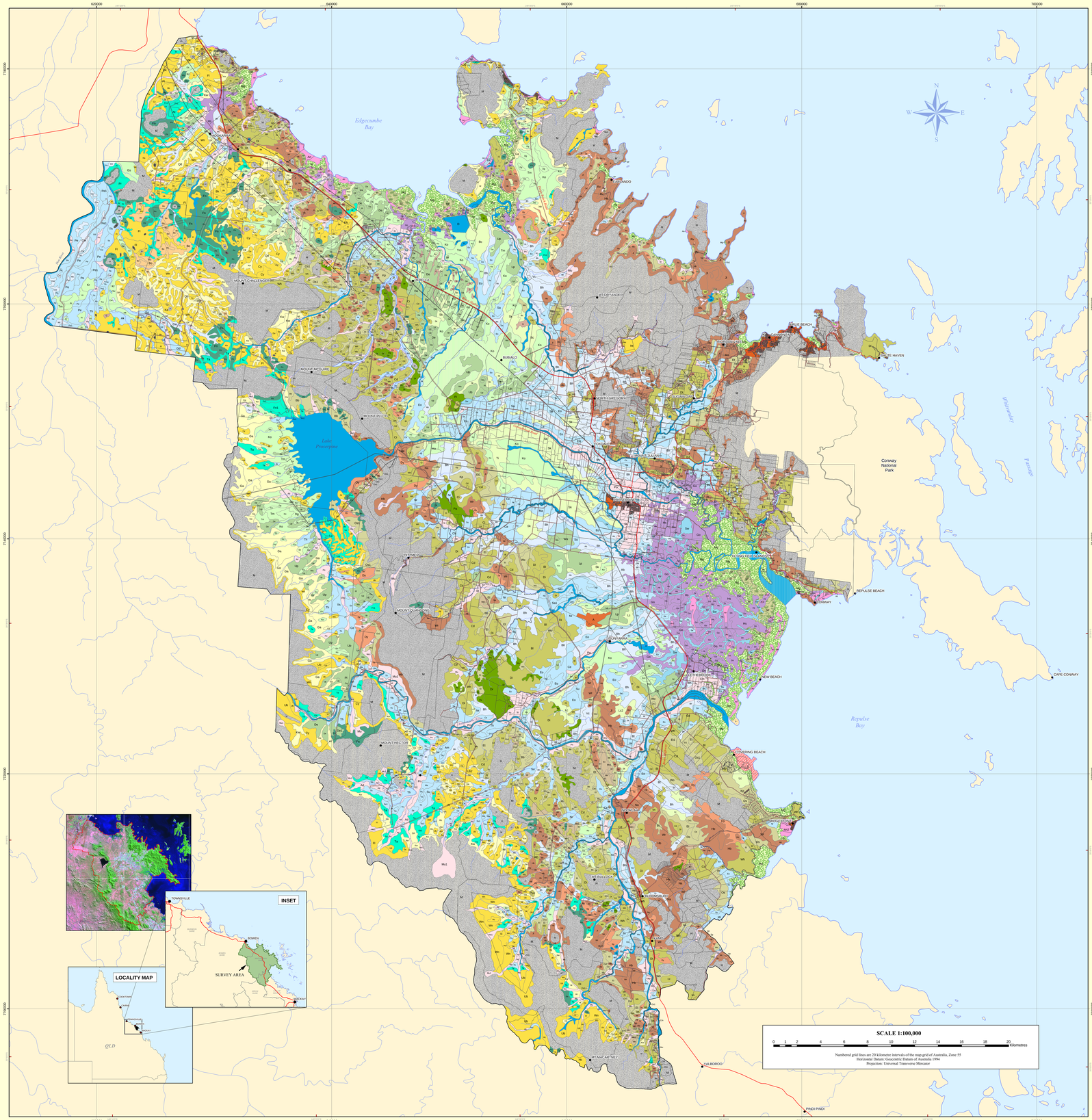


SOILS OF THE WHITSUNDAY COAST AREA

SOURCE: Soils and Land Suitability of the Central Queensland Whitsunday Coast Area
S.M. Hardy 2003.

Soil Code	Soil Profile Name (1)	Major Attributes of the Dominant Soil	Australian Soil Classification (2)	Great Soil Group	Main Principal Profile Form (3)
SOILS OVERLYING ACID TO INTERMEDIATE INTRUSIVE ROCKS AND DYKES					
UPPERSLOPES OF STEEP MOUNTAINS TO LOW ROLLING HILLS					
Bk	Buckley	Moderately deep, duplex soil with a sand topsoil; conspicuously bleached A2 over an alkaline, grey, mottled, light to medium clay subsoil.	Grey Sodosol	Solodic	Dy3.43, Dy3.53, Dy2.43
Cy	Caley	Shallow to moderately deep, uniform to gradational soil with a coarse sand topsoil; conspicuously bleached, grading into a neutral, pale brown, coarse sand BC horizon.	Leptic Rudosol	NSG / Yellow earth	Uc2.21
Dn	Dunwold	Moderately deep, duplex soil, with a sandy loam topsoil, over a neutral, grey, sandy light to medium clay subsoil.	Grey Sodosol	Solody	Dy2.42
Fi	Finlay	Moderate to deep, duplex soil with a loamy sand to sandy clay topsoil, over an acid to neutral, brownish-red to red clay subsoil.	Red Chromosol	Prairie Soil	Dr4.12
Gr	Glenroe	Moderate to deep, sodic duplex soil with a pale grey, loamy sand topsoil, bleached, over an alkaline, brown to greyish-brown, clay subsoil.	Yellow Sodosol	Solodic	Dy3.12, Dy3.13, Dy3.33, Dy3.22
Hc	Hector	Shallow uniform soil with a coarse sand to sandy loam topsoil, over a shallow sandy BC horizon.	Leptic Rudosol	NSG / Lithosol	Uc1.21
Ka	Kalifa	Moderately deep, duplex soil with a sandy loam topsoil, over a neutral, brown to greyish-brown, sandy light to medium clay subsoil.	Brown Sodosol	Solodic	Dy5.41, Dy3.41, Dy5.32,
Nr	Netherdale	Moderately deep, gradational soil with a clay loam topsoil over an acid to neutral brown clay subsoil.	Brown Dermosol	NSG / Minimal Prairie Soil	Uf6.4
Ub	Uruba	Moderately deep, duplex soil with a sandy loam to sandy clay loam topsoil, over a neutral, brown to greyish-brown, clay subsoil.	Brown Chromosol	Grey-brown Podzolic	Dy3.32
Ub1	Uruba (sandy A variant variant)	Moderately deep, duplex soil with a loamy sand to sandy loam topsoil, over an acid, greyish-brown to brown clay subsoil.	Grey Chromosol	Grey-brown Podzolic	Dy4.42
Wm	Wiseman	Moderately deep, gradational soil with a loamy sand to sandy loam topsoil, over a neutral, yellowish-grey, mottled, sandy loam to clay loam fine sandy subsoil.	Grey to Yellow Kandosol	NSG / Yellow earth	Gn2.42, Gn2.65
UNDULATING TO GENTLY UNDULATING FOOTSLOPES					
Ga	Gargett	Moderate to deep, duplexes to gradational soil with a loamy sand to sandy loam topsoil, over an acid to neutral, grey to greyish brown, sandy clay loam to sandy light clay subsoil.	Grey Chromosol / Grey Dermosol	Grey-brown Podzolic / NSG	Dy3.4.2
Hr	Hillrise	Deep, sodic duplex soil with sandy loam to sandy clay loam topsoil, bleached, over an alkaline, grey to greyish brown, clay subsoil.	Grey Sodosol	Solodic	Dy3.23
Kw	Kowari	Shallow to moderately deep, gradational to duplex soil with loamy sand to sandy loam topsoil, over a neutral, brownish-grey to greyish brown, sandy clay loam to sandy medium clay subsoil. This soil overlies layers of buried gravel to cobbles.	Grey Dermosol / Grey Chromosol	Grey-brown Podzolic	Gn2.42
Qd	Quandong	Moderate to deep, sodic duplex to gradational soil with a loamy sand to sandy loam topsoil, over an acid to neutral, yellowish-grey to yellowish-brown, sandy clay loam to sandy light clay subsoil. This soil overlies layers of buried gravel to cobbles and may have an iron-manganese pan in the profile.	Yellow Dermosol	NSG / Yellow earth	Gn2.75
Rb	Rosenbuck	Moderate to deep, duplex soil with a bleached, loamy sand to sandy clay loam topsoil, over an alkaline, greyish-brown clay subsoil.	Grey to Brown Sodosol	Solodic	Dy2.42, Dy2.43, Dy3.43, Dk2.33, Dk2.43
SOILS OVERLYING INTERMEDIATE TO BASIC INTRUSIVE ROCKS AND DYKES					
UPPERSLOPES OF STEEP MOUNTAINS TO LOW ROLLING HILLS					
Ar	Armstrong	Moderate to deep, uniform clay soil with a self-mulching topsoil, over an alkaline, grey clay subsoil. Some carbonate. Occurs on gilgai mounds only.	Black Vertosol	Black earth	Ug5.16
Fh	Finch Hatton	Moderate to deep, duplex to gradational soil with a clay loam to light clay topsoil, over an acid to neutral, brownish-red to red, clay subsoil.	Brown or red Dermosol	Prairie Soil	Gn4.12
Pc	Pinnacle	Moderately deep to deep, gradational soil with a clay loam topsoil over a reddish brown subsoil.	Brown to red Chromosol	Kraznozem / Euchrozem	Uf6.31
Wy	Wygong	Moderate to deep, uniform clay soil with a self-mulching clay topsoil, over an alkaline, black to dark brown, clay subsoil, over weathering rock.	Black Vertosol	Black earth	Ug5.12
UNDULATING TO GENTLY UNDULATING FOOTSLOPES					
Ab	Abbot	Deep, uniform clay soil with a self-mulching clay topsoil, over an alkaline black to dark grey, clay subsoil. Minor carbonate.	Black Vertosol	Black Earth	Ug5.1
Fnl	Finch Hatton (alluvial-colluvial variant)	Moderately deep, gradational soil with a clay loam topsoil, over a neutral to alkaline, brown, clay subsoil.	Brown Dermosol	Brown Solodic	Uf6.33
Lu	Luce	Moderate to deep, duplexes to gradational soil with a sandy loam to sandy clay loam topsoil, over a sad to reddish brown, sandy light clay to medium clay subsoil. Usually overlies a red-brown pan or consolidated pan composed of gravel and cobbles.	Red Dermosol	Hardpan soils / Red-brown earths	Gn4.12
Pr	Pring	Moderate to deep, duplexes to gradational soil with a sandy clay loam to clay loam topsoil, over an alkaline, greyish brown to reddish brown, clay subsoil.	Brown Dermosol	Brown Solodic	Gn3.12, Uf6.31
Ta	Tannello	Deep, gradational to duplex soil with a loamy sand to sandy clay loam topsoil, over an acid to neutral, reddish brown to brown, clay subsoil.	Brown Dermosol	Red - brown earth / Non-calcic brown soil	Gn2.42
Ub1	Uruba (alluvial-colluvial variant)	Moderately deep to deep, duplex soil with a loamy sand to sandy loam topsoil, over an acid, greyish brown to brown clay subsoil.	Grey Chromosol	Grey-brown Podzolic	Dy4.42
SOILS OVERLYING ACID TO INTERMEDIATE METAMORPHIC ROCKS					
Bo	Bode	Moderate to deep, duplex soil with a loamy sand to sandy clay loam topsoil, over an acid to neutral, greyish-brown to brownish-red, clay subsoil.	Red Dermosol	Brown Podzolic	Gn4.12
SOILS OVERLYING ACID TO INTERMEDIATE VOLCANIC TUFFS					
UPPERSLOPES OF STEEP MOUNTAINS TO LOW ROLLING HILLS					
Ex	Exmoor	Shallow, acid to neutral, bleached, greyish-brown, gravelly sandy loam soil which is 10-50 cm deep.	Leptic Rudosol	Lithosol	Uc1.21
Mo	Mormore	Shallow to moderately deep, sodic duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Subsaitic, Grey Sodosol	Solody	Dy3.31
Mo1	Mormore (sandy topsoil variant)	Shallow to moderately deep, sodic duplex soil with a thick, bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Subsaitic, Grey Sodosol	Solody	Dy3.31
Ma	Manbura	Shallow to moderately deep, duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Grey Chromosol	Grey-brown Podzolic	Dy3.31
Rf	Ruffles	Shallow to moderately deep, sodic duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Mesomatric, Grey Sodosol	Solodic	Dy3.31
SOILS OVERLYING ACID VOLCANIC ROCKS					
UPPERSLOPES OF STEEP HILLS TO ROLLING LOW HILLS					
Bl	Bellmanda	Moderately deep, sodic duplex soil with a gravelly, bleached, sandy loam to sandy clay loam topsoil, over an alkaline, grey to yellowish-brown, clay subsoil. Manganese nodules in upper subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Cl	Carmila	Moderately deep, sodic duplex soil with a gravelly, bleached, sandy loam topsoil, over an alkaline, grey, clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Cd	Condor	Shallow to moderately deep, sodic duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Mesomatric, Grey Sodosol	Solody	Dy3.31
Dt	Dittmer	Shallow, acid to neutral, bleached, greyish-brown, gravelly sandy loam soil which is 10-50 cm deep.	Leptic Rudosol	Lithosol	Uc1.21
Ed	Edgecumbe	Moderately deep, duplex soil with a gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Grey Chromosol	Grey-brown Podzolic	Dy3.31
Pt	Preston	Shallow to moderately deep, duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Grey Chromosol	Grey-brown Podzolic	Dy3.31
Sa	Suatoc	Shallow to moderately deep, gradational soil with a bleached, gravelly, sandy loam to clay loam topsoil, over an acid, grey to yellowish-brown, loamy subsoil.	Grey Kandosol	NSG / Yellow earth	Dy5.81
Wh	Whitsunl	Moderately deep, sodic duplex soil with a bleached, sandy clay loam topsoil, over an acid, brownish-grey, clay subsoil.	Subsaitic, Brown Sodosol	Grey-brown Podzolic / Brown solodic	Dy3.31
UNDULATING TO GENTLY UNDULATING FOOTSLOPES					
Bb	Balberra	Moderately deep, sodic duplex soil with a bleached, loamy sand to sandy loam topsoil, over an acid, grey, clay subsoil.	Mesomatric, Grey Sodosol	Grey Solodic	Dy3.41
El	Etowrie	Deep, duplex soil with buried gravel layers and a gravelly, bleached, sandy clay loam topsoil, over an alkaline, grey clay subsoil.	Grey Sodosol	Solodic	Dy3.33
El1	Etowrie (neutral variant)	Deep, duplex soil with buried gravel layers and a gravelly, bleached, sandy clay loam topsoil, over a neutral, grey, clay subsoil.	Grey Chromosol	Solodic / Grey Podzolic	Dy3.32
Kp	Kunyinpi	Moderate to deep, duplex soil with a very gravelly, bleached, sandy clay loam to clay loam fine sandy topsoil, over an alkaline, grey to greyish brown, clay subsoil. This soil has buried layers of gravel and clay.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Os	Ossa	Moderately deep, duplex soil with a gravelly, bleached, sandy loam topsoil, over an acid, grey, clay subsoil. These soils overlie buried layers of consolidate gravel.	Grey Sodosol	Solody	Dy3.31
Os1	Ossa (cobbly variant)	Moderately deep, duplex soil with a gravelly, bleached, sandy clay loam topsoil, over an acid, grey, clay subsoil. These soils overlie buried layers of cobbles.	Grey Sodosol	Solody	Dy3.41
Wa	Wallingford	Moderately to deep, sodic duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Mesomatric, Grey Sodosol	Solodic	Dy3.31
SOILS OVERLYING INTERMEDIATE TO BASIC VOLCANIC ROCKS					
UPPERSLOPES OF STEEP HILLS TO ROLLING LOW HILLS					
Hb	Habana	Shallow to moderately deep, gradational to uniform soil with a 20-50 cm thick, clay loam to light clay topsoil, over an acid to neutral, brown to reddish-brown, clay subsoil.	Brown Dermosol	Prairie Soil	Uf6.4
Jl	Julian	Shallow, neutral, reddish-brown, non-cracking clay soil which is 10-50 cm deep.	Red Rudosol	Lithosol	Uf5.21
Mw	Marlow	Shallow to moderately deep, duplex soil with a bleached, gravelly, sandy loam to sandy clay loam topsoil, over an acid, grey to yellowish-brown, clay subsoil.	Grey Chromosol	Grey Podzolic	Dy3.31
Na	Nabilla	Shallow to moderately deep, gradational soil with a clay loam to light clay topsoil with abundant iron-manganese concretions, over an acid to neutral, brown to reddish-brown, clay subsoil.	Brown Dermosol	Prairie Soil	Gn3.72
Ro	Riordanvale	Moderately deep, duplex soil with a 15-50 cm thick, clay loam topsoil, over an acid to neutral, brownish-red, clay subsoil.	Brown Dermosol	Chocolate Soil	Dy5.22
Sd	Strathdickie	Moderately deep, gradational soil with a clay loam to light clay topsoil, over an alkaline, greyish-brown, clay subsoil.	Brown Dermosol	Prairie Soil	Uf6.31, Gn3.42
Wo	Wagoora	Moderate to deep, gradational to uniform soil with a clay loam to light clay topsoil, over an acid, brownish-red, clay subsoil.	Brown Dermosol	Prairie Soil / Chocolate Soil	Uf6.33
UNDULATING TO GENTLY UNDULATING FOOTSLOPES AND COLLUVIAL FANS					
Dy	Dryander	Deep, duplex soil with a gravelly, bleached, sandy clay loam to clay loam topsoil, over an alkaline, grey, clay subsoil.	Grey Sodosol	Grey-brown Podzolic /	Dy3.33
Sg	Silent Grove	Deep, uniform, cracking, clay soil with a self-mulching, clay topsoil, over an alkaline, dark to greyish-brown, clay subsoil.	Black Vertosol	Black Earth	Ug5.16
SOILS OVERLYING SEDIMENTARY ROCKS					
LOW ROLLING HILLS TO UNDULATING RISES					
Cy	Campwyn	Moderate to deep, gradational soil with a sandy loam to sandy clay loam topsoil, over a neutral, yellowish-brown, sandy clay subsoil.	Yellow Dermosol	Yellow earth	Gn2.34
Dr	Drakon	Shallow, acid to neutral, bleached, greyish-brown, gravelly sandy loam soil which is 10-50 cm deep.	Leptic Rudosol	Lithosol	Uc1.21
Jm	Jumper	Moderate to deep, sodic duplex soil with a gravelly, bleached, sandy loam to sandy clay loam topsoil, over an alkaline, greyish-brown, clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.31
Ln	Lonsond	Moderately deep, uniform black to brown clay with a self mulching topsoil.	Brown Vertosol	Black Earth	Ug5.15
Pa	Palmyra	Shallow to moderately deep, sodic duplex soil with a gravelly, bleached, sandy loam to sandy clay loam topsoil, over an acid, greyish-brown, clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.31
Pi	Pindi	Moderate to deep, sodic duplex soil with a gravelly, bleached, sandy loam to sandy clay loam topsoil, over an acid, greyish-brown, clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.31
SOILS OVERLYING TERTIARY CONSOLIDATED SEDIMENTS					
GENTLY UNDULATING PLAINS TO UNDULATING RISES					
De	Debella	Shallow, uniform to gradational soil, with a thick, sandy loam topsoil.	Leptic Rudosol	NSG / Lithosol / Yellow earth	Uc1.21
De1	Debella (cobbly variant)	Shallow, uniform to gradational soil, with a sandy loam topsoil.	Leptic Rudosol	NSG / Lithosol / Yellow earth	Uc1.21
Lp	Lilliypool	Moderately deep, sodic duplex soil with a gravelly, bleached, sandy loam topsoil, over an acid, grey, clay soil. These soils are formed from weathered dacite or fine grained sedimentary rocks.	Mesomatric, Grey Sodosol	Solodic / Lateritic podzolic	Dy3.31
Pl	Plato	Moderately deep, duplex to gradational soil with an acid, sandy loam topsoil, over an acid, grey to yellowish brown, clay subsoil.	Grey Sodosol	Solodic / Grey podzolic	Dy3.41, Dy3.42, Dy3.32
Up	Up River	Moderate to deep, uniform soil with a sand to loamy sand topsoil, over an acid, yellow to yellowish grey, loamy sand to sandy loam subsoil.	Yellow Kandosol	Yellow earth / NSG	Uc2.21
Wa	Wandera	Moderate to deep, gradational soil with a sandy loam to sandy clay loam topsoil, over an acid, yellowish-grey to yellow, sandy clay loam to light clay subsoil.	Yellow Dermosol	Yellow earth	Gn2.34
SOILS OVERLYING CONSOLIDATED TERTIARY – PLIOCENE SEDIMENTS					
GENTLY UNDULATING PLAINS					
Dg	Dingo	Moderately deep, uniform to gradational soil with a 20-40 cm thick, clay loam to light clay topsoil, over an acid, pale grey to pale yellow, sandy loam to clay loam sandy subsoil.	Yellow Kandosol	NSG / Yellow earth	Uc2.21
Gs	Grassroe	Shallow to moderately deep, sodic duplex soil with a rocky surface and a grey, acid, sandy loam topsoil, over an acid, sandy clay subsoil.	Brown Sodosol	Solloth	Dy5.41
Kr	Kangaroo	Shallow to moderately deep, sodic duplex soil with a sandy loam topsoil, over an alkaline, grey, sandy clay subsoil.	Grey Sodosol	Solodic	Dy3.42, Dy3.43, Dy2.32, Dy2.33
Ko	Koolachu	Moderately deep, duplex soil with a bleached, sandy loam topsoil, over an acid, Grey.	Mesomatric, Grey Sodosol	Solloth	Dy3.31
Ko1	Koolachu (saline variant)	Moderately deep, duplex soil with a bleached, sandy loam topsoil, over an acid, grey, clay subsoil.	Mesomatric, Grey Sodosol	Solloth	Dy3.31
Mk	Mookara	Moderate to deep, duplex soil with a clay loam topsoil, over an alkaline, greyish brown to reddish-brown, clay subsoil formed on a silica carbonate pan.	Brown Dermosol	Terra rossa	Uf6.11
Tm	Tommie	Moderately deep, sodic duplex soil, with a bleached, loamy sand to sandy clay loam topsoil, over an alkaline, grey to yellowish-grey, clay subsoil.	Mesomatric, Grey Sodosol	Solodic	Dy3.33
SOILS OVERLYING UNCONSOLIDATED CAINOZOIC ALLUVIUM					
GENTLY UNDULATING PLAINS					
Bc	Billy's Creek	Deep, sodic duplex soil with a sandy loam to loamy sand topsoil, bleached over an alkaline, pale grey to yellowish-grey, mottled, clay subsoil.	Mesomatric, Grey Sodosol	Solodized Solonetz / Solodic	Dy3.33
Lc	Lancelles	Deep, sodic duplex soil with a sandy loam to clay loam sandy topsoil, bleached over an acid, grey to yellowish-grey, clay subsoil. These soils have an iron - manganese pan between the topsoil and subsoil.	Subsaitic, Grey Sodosol	Solodic / Lateritic podzolic soil	Dy3.84
Lc1	Lancelles (shallow variant)	Shallow to moderately deep, sodic duplex soil with a bleached, sandy loam to clay loam sandy topsoil, over an acid, grey to yellowish-grey, clay subsoil. These soils have an iron-manganese pan between the topsoil and subsoil.	Subsaitic, Grey Sodosol	Solodic / Lateritic podzolic soil	Dy3.84
Lc2	Lancelles (alkaline variant)	Deep, sodic duplex soil with a sandy loam to clay loam sandy topsoil, bleached over an alkaline, grey to yellowish-grey, clay subsoil. These soils have an iron-manganese pan between the topsoil and the subsoil.	Subsaitic, Grey Sodosol	Solodic / Lateritic podzolic soil	Dy3.84
Sk	Slater	Moderate to deep, sodic duplex soil, with a loamy sand to sandy clay loam topsoil, bleached over an acid to neutral, pale grey, clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.31
Tl	Tarling	Deep, duplex soil with a clay loam topsoil, bleached over an alkaline, pale grey to yellowish-grey, mottled, clay subsoil.	Mesomatric, Grey Sodosol	Solodized Solonetz / Solodic	Dy3.33
SOILS OVERLYING QUATERNARY ALLUVIUM					
RELICT AND ACTIVE LEVEES					
Ad	Andromache	Deep, gradational to uniform soil with a fine loamy sand to sandy loam topsoil, over an acid to neutral, greyish-brown to brown, sandy loam to sandy clay loam subsoil.	Stratic Rudosol	Red - brown earth / Alluvial	Uc1.44
Cm	Cameron	Moderate to deep, duplex to gradational soil with a clay loam to sandy clay loam topsoil, over an acid to neutral, brown to greyish-brown, clay subsoil.	Stratic Rudosol	Red - brown earth / Alluvial	Um1.43
Cm1	Cameron (glycel phase)	Moderate to deep, duplex to gradational soil with a clay loam to sandy clay loam topsoil, over an acid to neutral, greyish-brown and grey, clay loam to clay subsoil.	Stratic Rudosol	Red- brown earth / Alluvial	Um1.43
Do	Don	Deep, gradational soil with a sandy clay loam to clay loam sandy topsoil, over an alkaline, greyish-brown to brown, light to medium clay subsoil.	Grey Dermosol	Non-calcic brown	Dd1.13, Gn4.43
Ms	Mossie	Moderate to deep, sandy duplex to gradational soil with a fine loamy sandy to sandy loam topsoil, over a neutral greyish-brown to reddish-brown, sandy loam to clay loam subsoil.	Brown Dermosol	Red-brown earths	Gn4.32, Dk1.12
Mu	Murray	Shallow to moderately deep, duplex to gradational soil with a sandy loam to clay loam topsoil, over an acid to neutral, brown to greyish brown, sandy clay loam to sandy light clay subsoil.	Stratic Rudosol	Alluvial	Uc1.22
Mu1	Murray (colluvial variant)	Shallow, gradational soil with a sandy loam to clay loam topsoil, over an acid to neutral, brown to greyish-brown, sandy clay loam to sandy light clay subsoil.	Stratic Rudosol	Alluvial	Uc1.22
Pe	Pioneer	Deep, duplex to gradational soil with a sandy clay loam to clay loam topsoil, over an acid to neutral, brown to red-brown, clay subsoil.	Brown Dermosol	Non-calcic brown	Dy3.32
Po	Proserpine	Deep, gradational to uniform soil with a sandy loam to sandy clay loam topsoil, over an acid to neutral, greyish-brown clay loam to medium clay subsoil. These soils overlie buried layers of sand to light clay alluvium.	Stratic Rudosol	Alluvial	Uc1.44
St	St Helens	Moderately deep, duplex to gradational soil with a clay to sandy clay loam topsoil, over an acid to neutral, brown to greyish brown, clay subsoil.	Brown Dermosol	Non-calcic brown	Gn3.92
LEVEL ACTIVE BACKPLAINS AND RELICT TERRACES					
Duplex soils					
Ak	Anakey	Moderate to deep, duplex soil with a sandy loam topsoil over an acid to neutral, grey to dark grey, light medium to medium heavy clay subsoil.	Grey Sodosol	Solodic	Dy2.33
Am	Amelioratie	Deep, duplex to gradational soil with a clay loam light clay topsoil over an acid to neutral, grey to dark grey, light medium to medium heavy clay subsoil.	Grey Sodosol	Solodic	Dy3.12, Gn4
Bc	Bonacria	Deep, alkaline, brownish-grey, duplex soil with a 15-30 cm thick, bleached, clay loam topsoil.	Brown Sodosol	Solodic	Dy3.33
Cc	Calen	Deep, alkaline, brownish-grey, duplex soil with a bleached, clay loam topsoil.	Brown Chromosol Brown Sodosol	Solodic / Grey-brown Podzolic	Dy3.33
Co	Conway	Deep, duplex soil with a bleached, clay loam topsoil over a neutral, reddish-brown clay subsoil.	Brown Chromosol	Grey-brown Podzolic	Dy3.33
Eo	Eton	Deep, alkaline, bleached, grey, sodic duplex soil with a sandy clay loam topsoil.	Mesomatric, Grey Sodosol	Solodic	Dy5.33
Fo	Freshale	Deep, duplex to gradational soil with a clay loam topsoil over an acid to neutral, grey to dark grey, light medium to medium heavy clay subsoil.	Grey Chromosol	NSG / Humic gley	Dy3.12, Gn4
Gd	Goodbye	Moderate to deep, duplex soil with a sandy loam topsoil over an acid to neutral, dark to dark grey, light medium to medium heavy clay subsoil. Subsoil becomes consolidated.	Grey Sodosol	Solodic	Dd2.33, Dd2.13, UF5, Gn3.03
Ma	Marian	Deep, duplex soil with a sandy clay loam topsoil over an acid to neutral brown clay subsoil.	Brown Chromosol	Grey-brown Podzolic	Dy2.32
Mi	Mirani	Deep, acid, grey to brownish grey, duplex soil with a 20-40 cm thick, sandy clay loam to loamy sand topsoil.	Grey Chromosol	Grey-brown Podzolic	Dy2.31
Nr	Nurpi	Deep, sodic duplex soil with silty loam, bleached, topsoil, over an alkaline clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Ns	Noorvale	Deep, sodic, duplex soil with a 25-45 cm thick, dark greyish loamy sand topsoil over an alkaline, reddish-brown, mottled, medium to medium heavy clay subsoil.	Brown Sodosol	Solodic	Dk2.22, Dk2.23, Dy3.22
Pr	Pennefold	Deep, duplex to gradational soil with a sandy loam to sandy clay loam topsoil over an alkaline reddish-brown, light medium to medium heavy clay subsoil.	Brown Sodosol	Solodic	Dk1.43, Dk1.33, Dk2.43
Pr1	Pennefold (shallow variant)	Moderate deep, duplex soil with a sandy loam topsoil, over a reddish brown, medium clay subsoil.	Brown Sodosol	Solodic	Dk1.43
Sa	Sandford	Deep, sodic duplex soil with sandy loam, bleached, topsoil, over an acid to neutral clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Sa1	Sandford (silty loam topsoil variant)	Deep, sodic duplex soil with silty loam, bleached, topsoil, over an acid to neutral clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Sa2	Sunnyside (sandy loam topsoil)	Deep, sodic duplex soil with sandy loam, bleached, topsoil, over an alkaline clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Su	Sunnyside	Deep, sodic duplex soil with fine sandy clay loam, bleached, topsoil, over an alkaline clay subsoil.	Subsaitic, Grey Sodosol	Solodic	Dy3.33
Th	Thompson	Deep, acid, brown to reddish brown, duplex to gradational soil with a sandy loam to sandy clay loam topsoil.	Brown Dermosol	Alluvial / Non-calcic brown	Dy4.12
Clay soils					
Ab	Albert	Deep, acid to neutral, grey, cracking, clay soil.	Grey Vertosol	Grey clay	Ug5.16
Bk	Benkeline	Deep, alkaline, grey, cracking, clay soil.	Grey Vertosol	Grey clay	Ug5.16
Bt	Brightley	Deep, alkaline, greyish brown, cracking, clay soil.	Black Vertosol	Grey clay	Ug5.15, Ug5.16
Cw	Carew	Self-mulching topsoil over neutral to alkaline very dark grey heavy clay subsoil.	Black Vertosol	Black earth	Ug5.15, Ug5.16
Cb	Crystalbrook	Moderately deep, non-cracking clay soil with a light clay topsoil over an alkaline clay subsoil.	Black Vertosol	Grey clay	Ug5.16
Mz	Merinda	Deep, cracking clay with an alkaline dark grey medium clay over alkaline dark grey heavy clay subsoil.	Grey Vertosol	Grey clay	Ug5.24
My	Myrtle	Deep, non-cracking clay soil with a light clay topsoil over an acid to neutral clay subsoil.	Grey Dermosol	Humic gley	Ug5.16
Tb	Tabletop	Deep, cracking clay with a self-mulching clay topsoil over neutral to alkaline black heavy clay, over dark brown heavy clay.	Brown Vertosol	Grey clay / Red-brown earth	Ug5.15
Vc	Victoria Plains	Deep, cracking clay with a self-mulching clay topsoil over alkaline black heavy clay, over dark brown heavy clay.	Brown Vertosol	Black earth	Ug5.15
SOILS OVERLYING QUATERNARY (HOLOCENE) MARINE SEDIMENTS					
LEVEL ACTIVE BACKPLAINS OF MARINE SEDIMENT					
Cp	Campbell Plains	Deep, sodic duplex soil with clay loam to sandy clay loam topsoil over an alkaline grey clay subsoil. Usually saline.	Mesomatric Grey Sodosol	Solonchak	Dy3.13
Do	Dundula	Very deep, cracking clay with a light clay topsoil over a grey, alkaline subsoil. These soils have a water logged (gleyed) subsoil. Pyrite may be present below 150 cm.	Aquic Vertosol, Sulfaric Eutrastaf Hydrosol	Humic gleys	Ug5.36, Ug5.28
Gl	Glen Isla	Very deep, duplex to gradational soil with a clay loam to light clay topsoil over a grey clay subsoil. These soils have a water logged (gleyed) subsoil and often overlie buried layers of sand and silt.	Eutrastaf Hydrosol, Redoxic Hydrosol	Humic gleys	Dg2.11, Uf6.41
Go	Georgatga	Very deep, cracking to non-cracking clay soil with a clay topsoil over a very acid grey clay subsoil. These soils have a water logged (gleyed) subsoil with pyrite.	Aquic Vertosol, Sulfaric Eutrastaf Hydrosol	Humic gleys	Ug5.36, Ug5.28
Hc	Hillsborough	Very deep, cracking clay with a light clay topsoil over a grey, alkaline subsoil. These soils have a water logged (gleyed) subsoil. Pyrite may be present below 150 cm.	Aquic Vertosol, Sulfaric Eutrastaf Hydrosol	Humic gleys	Ug5.36, Ug5.28
Ni	Nilotica	Moderate to deep, duplex or gradational soil with a sandy loam to clay loam topsoil over an alkaline, dark, light clay to medium heavy clay subsoil.	Grey Dermosol	Solodic / NSG	Gn4.43, Dd1.13, Uf6.11
Wi	Wilmington	Moderate to deep, non-cracking clay to gradational soil with a sandy loam to clay loam topsoil over buried soil material, mainly very dark neutral heavy clay, over layered estuarine deposits.	Oxyaquic Hydrosol	Humic gley	Uf6.22, Uun4.21, Uun4.41
COASTAL SAND DUNES					
Aa	Andergrove	Very deep, uniform soil with a sand to loamy sand topsoil over buried layers of sand.	Arenic Rudosol	Sands	Uq1.21, Uc2.21
Aa2	Andergrove (alkaline variant)	Shallow to moderately deep, uniform soil with a sand to loamy sand topsoil over buried layers of calcareous sand. These soils usually overlie buried estuarine sediments.	Arenic Rudosol	Sands	Uq1.21, Uc2.21
Aa3	Andergrove (shallow variant)	Shallow to moderately deep, uniform soil with a sand to loamy sand topsoil over layers of sand. These soils usually overlie buried estuarine sediments.	Arenic Rudosol	Sands	Uq1.21, Uc2.21
Ni	Neils	A deep, uniform to gradational soil with a bleached sandy topsoil over a yellowish grey, fine sandy loam subsoil.	Arenic Rudosol	Podzol	Dy5.41, Dy5.42, Dq4.41

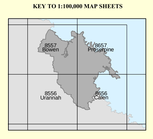
Miscellaneous Units

Urban
Airport
Marina Resort
Quarry
Mountains and Hills
Rock Outcrop
Frontal Dunes
Estuary
Mangroves
Salt Flat
Gullies
Streams / Dams
Swamp

Legend

Towns
Drainage
Major Roads
Roads
Cadastral Boundaries

KEY TO 1:100,000 MAP SHEETS



Definitions

Soil Depth

Very shallow	< 25 cm
Shallow	25-50 cm
Moderate	50-100 cm
Deep	100-150 cm
Very deep	>150 cm

Notes

1 Mapping units are named after the dominant soil profile class but the proportion of the dominant soil may vary between sites.
2 Australian Soil Classification after Isbell, R.F. (1996), *A Classification System for Australian Soils.*
3 Principal Profile Forms after Northcote, K.H. (1979), *A Factual Key for the Recognition of Australian Soils.*

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