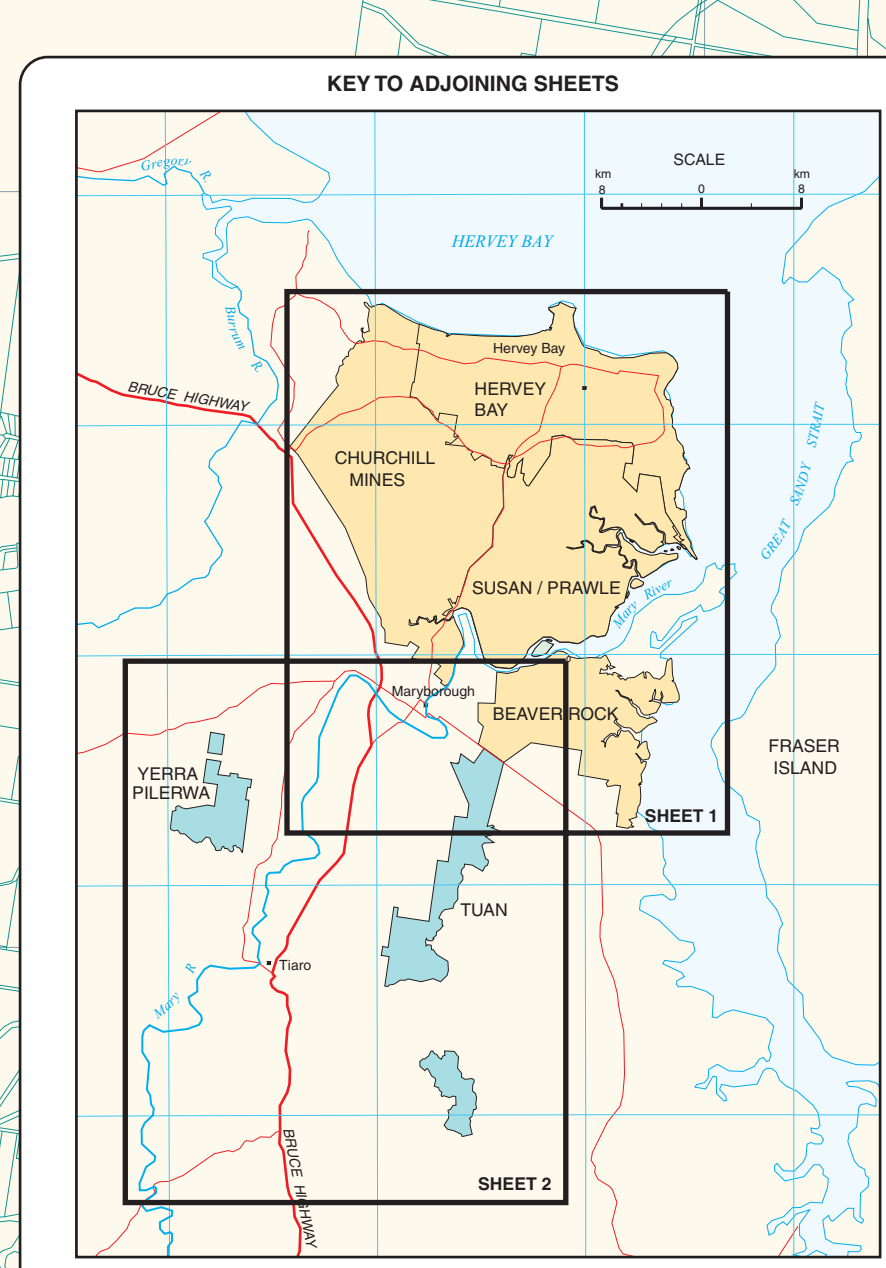
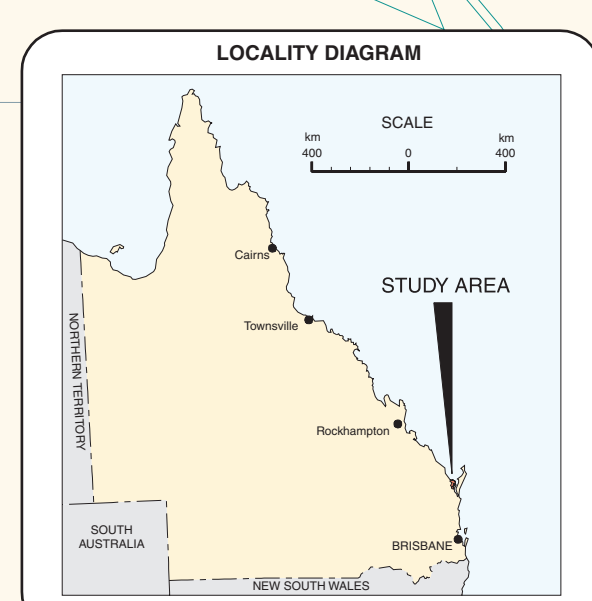


Mapping Unit	Major attributes of Dominant soil	Australian Classification	Great Soil Group	Principle Profile Form	Area (ha)
<b>PODOSOLS</b>					
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS</b>					
Kk	Kirkuna	Black or grey sand surface over a conspicuously bleached A2 horizon (0.3 to 0.7m) over a brown or brown mottled or black coffee rock part (0.43 to 1m) over grey sand	Semiarid Podsol	Podsol	UG2 33 415
Th	Thaoboda	Grey sand surface over a conspicuously bleached A2 horizon (0.25 to 0.2m) over a brown sand B2 horizon (0.26 to 0.6m) over a bleached sand (0.75 to 1.1m) over an acid, mottled, structure, grey sandy light clay to sandy medium clay	Acid Podsol <sup>1</sup>	Podsol	UG2 23 134
Wm	Wulum	Grey or black sand surface over a conspicuously bleached A2 horizon (0.2 to 0.3m) over a brown sand B2 horizon (0.26 to 0.6m) over a bleached sand (0.65 to 1.1m) over an acid, mottled, massive grey sandy clay loam to sandy light clay	Acid Podsol <sup>1</sup> Podsol <sup>2</sup>	(Fluviatary) podsol	UG2 23 8
<b>BEACH RIDGES</b>					
Br	Burum	Black sand surface over a conspicuously bleached A2 horizon (1 to 2m) over a black coffee rock part	Acid Podsol	Podsol	UG2 33 615
Tn	Tongum	Grey or black sand over a conspicuously bleached A2 horizon (0.65 to 0.85) over an acid to neutral, brown or brown mottled grey sand	Acid Podsol	Podsol	UG2 21 147
<b>VERTOSOLS</b>					
<b>HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS</b>					
Dg	Dungel	Black light clay to light medium clay surface over a sporadically bleached A2 horizon (0.65 to 0.9m) over an acid, mottled, grey or occasionally brown medium clay to heavy clay (1 to 1.5m) over weathered rock	Grey Vertisol	(Bleached) grey clay	UG2 2 23
<b>HYDROSOLS</b>					
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS</b>					
Al	Alway	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 0.8m) over an acid, mottled, non-sodic, grey light clay to medium clay	Reddish Hydrosol	Gleyed podzolic soil	UG2 04 1 030
Mh	Mahogany	Grey or black sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 0.8m) over an acid, mottled, massive, grey sandy clay loam to sandy light clay	Reddish Hydrosol	No suitable group	UG2 04 71
Rb	Ribur	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 0.9m) over an acid, mottled, acidic, grey sandy light clay to heavy clay	Reddish Hydrosol	Saline sodic soil	UG2 04 10 086
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS</b>					
Cl	Clayton	Grey fine sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.25 to 0.2m) over an acid to neutral, mottled, non-sodic, grey or occasionally yellow light clay to medium clay	Reddish Hydrosol	Gleyed podzolic soil	UG2 04 1 422
Kh	Kalah	Grey fine sandy loam to fine sandy surface over a conspicuously bleached A2 horizon (0.25 to 0.2m) over an acid to neutral, mottled, non-sodic, grey or occasionally yellow light clay to heavy clay	Reddish Hydrosol	Saline sodic soil	UG2 04 6 609
Ki	Kobore	Grey loamy sand to loam fine sandy surface over a conspicuously bleached A2 horizon (0.3 to 0.4m) over an acid to neutral, mottled, acidic, grey sandy light clay to medium clay (0.5 to 1.3m) over a very hard, brittle, mottled durpan	Salic Hydrosol	Sodic soil	UG2 04 967
<b>ALLUVIAL PLAINS OF THE MARY RIVER</b>					
Bv	Beaver	Black loam to clay loam surface (0.05 to 0.2m) over an acid, black or dark grey medium clay to medium clay (0.75 to 0.9m) over an acid, mottled, grey medium clay to heavy clay	Reddish Hydrosol	Humic gley	UG2 11 79
Wk	Waker	Black or occasionally grey silty clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey or black light medium clay to heavy clay (0.4 to 1.2m) over an acid to neutral, mottled, grey medium clay to heavy clay	Reddish Hydrosol	Humic gley	UG2 02 105
<b>ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS</b>					
Wb	Woobor	Black or grey clay loam, silty clay loam, silty clay to light medium clay surface over a bleached A2 horizon (0.15 to 0.2m) over an acid, mottled, grey light medium clay to heavy clay	Reddish Hydrosol	No suitable group	UG2 02 6 902
<b>MARINE PLAINS</b>					
Fy	Fynsilite	Black clay loam to light clay surface (0.15 to 0.4m) over an acid, mottled, grey light medium clay to medium clay (0.75 to 0.9m) over an acid to neutral, often mottled, grey or brown coarse sand to sandy clay loam (0.75 to 1.3m)	Reddish Hydrosol	Humic gley	UG2 01 370
J	Jaro	Black loam to light clay surface (0.25 to 0.2m) over an acid, mottled, grey light medium clay to heavy clay (0.8 to 1.0m) over an acid, grey medium clay to heavy clay with granite	Reddish Hydrosol	Humic gley	UG2 02 2 820
Mm	Maroon	Black or grey sandy loam to sandy clay loam surface over a conspicuously or sporadically bleached A2 horizon (0.1 to 0.2m) over an acid to neutral, mottled, grey or brown or occasionally black light clay to medium heavy clay becoming peaty at depth	Reddish Hydrosol	Saline sodic soil	UG2 01 813
Tn	Tandora	Black clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey medium clay to heavy clay	Reddish Hydrosol	Humic gley	UG2 01 3 158
<b>KUROSOLES</b>					
<b>HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS</b>					
Ka	Kolan	Black or grey loam to sandy clay loam fine sandy surface over a conspicuously or sporadically bleached A2 horizon (0.15 to 0.3m) over an acid to neutral, mottled, acidic, grey or brown medium clay to heavy clay (0.5 to 1m) over weathered rock	Grey Kandosol	Saline	UG2 01 2 423
KuFp	Kolan rocky phase	As above with >20% rock fragments in the surface	Grey Kandosol	Saline	UG2 01 37
KuFv	Kolan red variant	Black or grey loam fine sandy to clay loam fine sandy surface over a conspicuously or sporadically bleached A2 horizon (0.15 to 0.3m) over an acid to neutral, mottled, acidic, red medium clay to heavy clay (0.5 to 1m) over weathered rock	Red Kandosol	Saline	UG2 01 1 117
<b>SODOSOLS</b>					
Tt	Tintan	Black or grey sandy loam to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.2m) over an acid, mottled, grey sandy medium clay (0.45 to 1.2m) over weathered rock	Grey Sodosol	Saline sodic soil	UG2 01 1 185
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS</b>					
Av	Avonide	Grey or black sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) with ferruginous nodules over an acid, mottled, grey or occasionally brown medium clay to heavy clay (0.25 to 1.2m) over weathered rock	Grey Sodosol	Saline	UG2 01 12 028
AvFp	Avonide rocky phase	As above with >20% rock fragments throughout the profile or rock within 0.3m of the surface	Grey Sodosol	Saline	UG2 01 114
Tv	Tuvan	Grey or occasionally black loam to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.2m) with ferruginous nodules over an acid, mottled, grey or brown medium clay to heavy clay (0.4 to 1.2m) over weathered rock	Grey Sodosol	Saline	UG2 01 3 065
<b>ALLUVIAL PLAINS OF THE MARY RIVER</b>					
Bt	Butcher	Black or grey loam to sandy clay loam surface over a conspicuously bleached A2 horizon (0.15 to 0.45m) over an acid, mottled, grey or brown light clay to heavy clay	Grey Sodosol	Saline sodic soil	UG2 01 8 871
<b>ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS</b>					
Pp	Peap	Grey or black fine sandy loam to clay loam sandy and silty clay loam surface over a conspicuously bleached A2 horizon (0.15 to 0.45m) over an acid to neutral, mottled, grey or brown medium clay	Grey Sodosol	Sodic soil	UG2 01 272
<b>CHROMOSOLS</b>					
<b>HILLSLOPES AND PLAINS ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS</b>					
Is	Isa	Grey or occasionally black sandy loam surface over a conspicuously bleached A2 horizon (0.2 to 0.7m) over an acid, mottled, yellow or brown light clay to medium clay	Yellow Chromosol	Yellow podzolic soil	UG2 01 1 962
<b>DERMOSOLS</b>					
<b>HILLSLOPES ON BASALTS</b>					
Bb	Borren	Black or brown light clay surface over a neutral, brown light medium clay to medium clay (0.15 to 0.2m) over weathered basalt, >20% basal fragments	Brown Dermosol	Pranic soil	UG2 01 1 138
Dr	Durdawon	Black light medium clay surface over a neutral to alkaline, mottled, grey or black medium clay to heavy clay (0.7m) with manganese nodules over weathered rock	Grey Dermosol	Pranic soil	UG2 01 30
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS</b>					
Gk	Gookumun	Brown or black loam sand to sandy clay loam surface over an acid to neutral, red clay loam to light clay	Red Dermosol	Red podzolic soil	UG2 11 239
Md	Meadowdale	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.7m) gradually changing to a mottled, massive, yellow or brown sandy clay loam to sandy light clay over an acid, mottled, structure, yellow or brown light clay to medium clay	Yellow Dermosol	Yellow podzolic soil	UG2 04 1 195
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS</b>					
AvFv	Avonide Yellow Variant	Grey fine sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) with ferruginous nodules over an acid, mottled, yellow light clay to light medium clay (0.4 to 0.6m) over an acid, mottled, grey medium clay to heavy clay	Yellow Dermosol	No suitable group, affines with Sooth	UG2 04 48
Bg	Burgardo	Black or grey clay loam surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) with ferruginous nodules over an acid, mottled, yellow light clay to light medium clay (0.4 to 0.6m) over an acid, mottled, grey medium clay to heavy clay	Brown Dermosol	No suitable group, affines with Sooth	UG2 04 2 333
Cr	Craghyn	Black or grey loam to sandy light clay surface over a conspicuously or sporadically bleached A2 horizon (0.1 to 0.25m) over a neutral to alkaline, grey or brown medium clay to heavy clay over weathered rock	Grey Dermosol	Sodic soil	UG2 01 846
Kp	Keppock	Grey or black loam fine sandy to clay loam surface over a bleached A2 horizon (0.3 to 0.4m) over an acid, mottled, yellow or brown light clay to medium clay with ferruginous nodules	Yellow Dermosol	Yellow podzolic soil	UG2 04 1 999
Wv	Woo	Grey or black loam fine sandy to clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.4m) over a strongly acid, mottled, acidic, grey or brown light clay to medium clay with ferruginous nodules	Grey Dermosol	Saline	UG2 04 1 771
Ww	Woomer	Grey fine sandy loam to fine sandy surface over a bleached A2 horizon (0.15 to 0.2m) gradually changing to a mottled, massive, yellow or brown sandy clay loam to clay loam fine sandy gradually changing to an acid, mottled, structure, yellow or brown light clay to medium clay with ferruginous nodules	Yellow Dermosol	Yellow podzolic soil	UG2 04 17
Wt	Wotagan	Black or brown clay loam surface over an acid, red light clay to medium clay with ferruginous nodules	Red Dermosol	Red podzolic soil	UG2 04 371
<b>ALLUVIAL PLAINS OF THE MARY RIVER</b>					
Ad	Adahshel	Grey, black or brown sandy loam to fine sandy clay loam surface (0.1 to 0.25m) over a neutral, red light clay to light medium clay frequently with manganese nodules	Red Dermosol	Red brown earth	UG2 02 76
Gr	Granville	Black or grey light clay to light medium clay surface over a sporadically bleached A2 horizon (0.1 to 0.25m) over an acid, mottled, grey or brown medium clay to heavy clay	Grey Dermosol	No suitable group, affines with grey clay	UG2 01 1 569
Mv	Mary	Black or brown silty clay loam to silty clay surface (0.1 to 0.25m) over an acid to neutral, brown light clay to medium clay	Brown Dermosol	Brown earth	UG2 01 216
<b>PANDOSOLS</b>					
<b>PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS</b>					
Qu	Quart	Grey loam sand to sandy loam surface over an acid, mottled, yellow sandy clay loam to clay loam	Yellow Kandosol	Yellow earth	UG2 04 1 147
<b>ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS</b>					
Lt	Litlaba	Black or grey sandy loam to fine sandy surface over an acid to neutral, yellow, grey or red sandy loam to clay loam sandy	Yellow Kandosol	Yellow earth	UG2 02 71
<b>TENOSOLS</b>					
<b>BEACH RIDGES</b>					
Dm	Diamond	Black sand to heavy sand surface over a frequently conspicuously bleached A2 horizon (0.1 to 1.0m) over an acid, brown, yellow or occasionally red sand to loamy sand with ferruginous nodules	Bleached Tenosol	Earthy sand	UG2 22 244



**MISCELLANEOUS UNITS**

M	Mangrove	Mangrove areas, salt pans and associated wetlands with tidal influences.
U	Urban	Urban housing, retail residential and small subdivisions of areas < 5 ha.
W	Water	Large dams, rivers and associated banks and gullies.

**MAPPING UNIT CODE EXPLANATION**

- The primary division in the reference is based on the dominant Australian Classification Soil Order (Isbell 1994) for each mapping unit.
- Variants and phases of soil types may occur, for example, AvRb, KuFp, KuFv. Such mapping units are described by the major attributes of the soil set type modified by the description of the variant or phase concerned.
- Adjoining mapping units with the same code are separated because of different attributes, for example, different slope.
- (123) Unique map area (UMA) number.

**MISCELLANEOUS SYMBOLS**

Indicates that one soil overlies another soil. For example, the podsol of the Wulum soil has formed in the A2 horizon of another soil.

These bracketed qualifiers are not an official part of Great Soil Group names.

The symbol indicates a gleyed surface horizon.

**SOIL BOUNDARY CONFORMANCE LEVEL**

Observed

Approximate

**INTENSITY STATEMENT**

This is a medium intensity soils survey. It is based on aerial photography interpretation and ground observations of the order of one observation to an area of 50 to 100 hectares.

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**CARTOGRAPHY BY** Sheryl F. Crofts, Resource Sciences Centre, Department of Natural Resources, Brisbane.

**BASE MAP** Digital Cadastral Data Base, Department of Natural Resources, 1998

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**NATURAL RESOURCES**

**MARYBOROUGH - HERVEY BAY**

**SOILS**

**SHEET 1**

SCALE 1 : 50 000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION

GREY NUMBERED GRID LINES ARE AT 500 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 56 AGD 84

GRID VALUES ARE SHOWN IN FULL AT THE SOUTH WEST CORNER OF THE SHEET

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