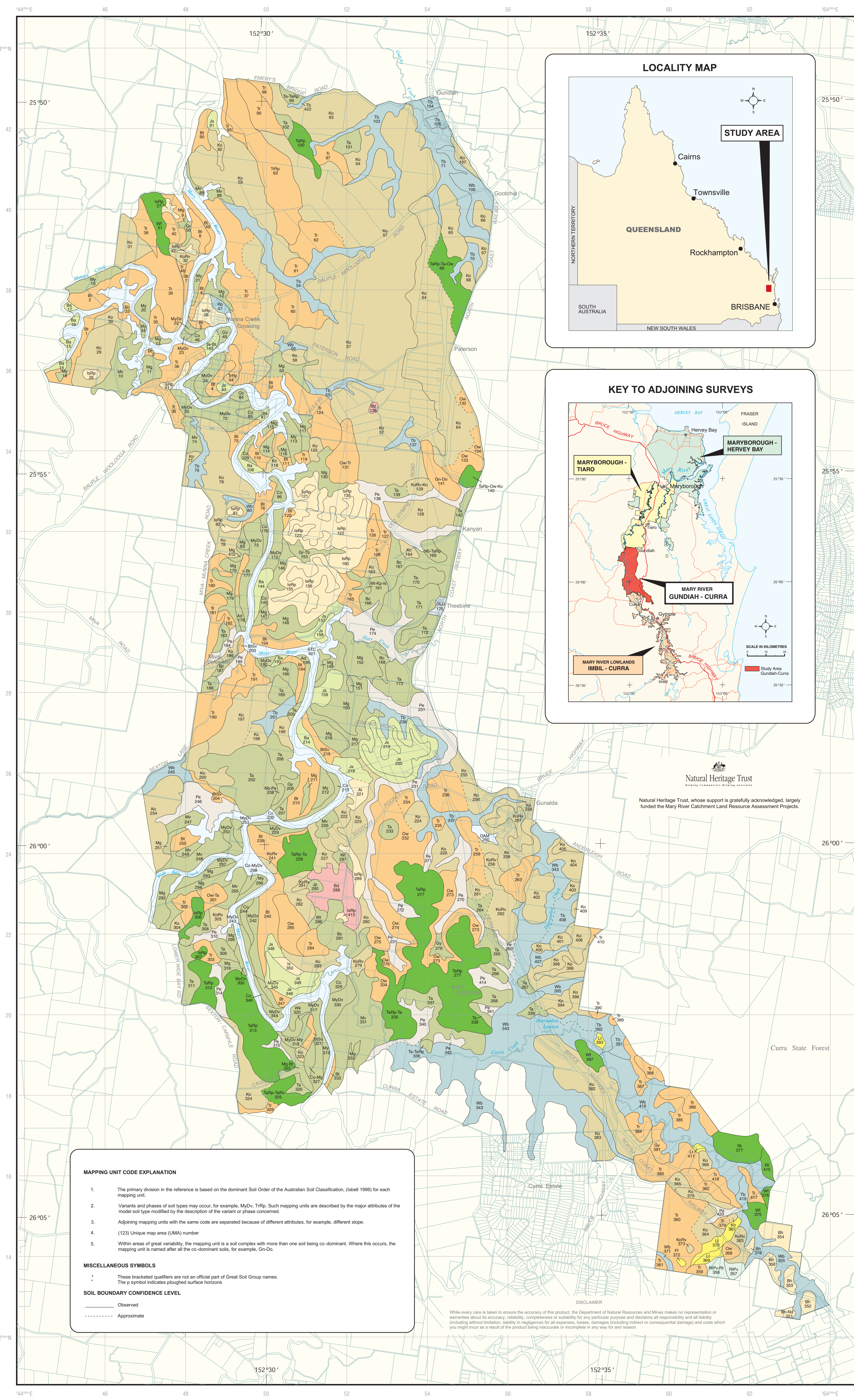
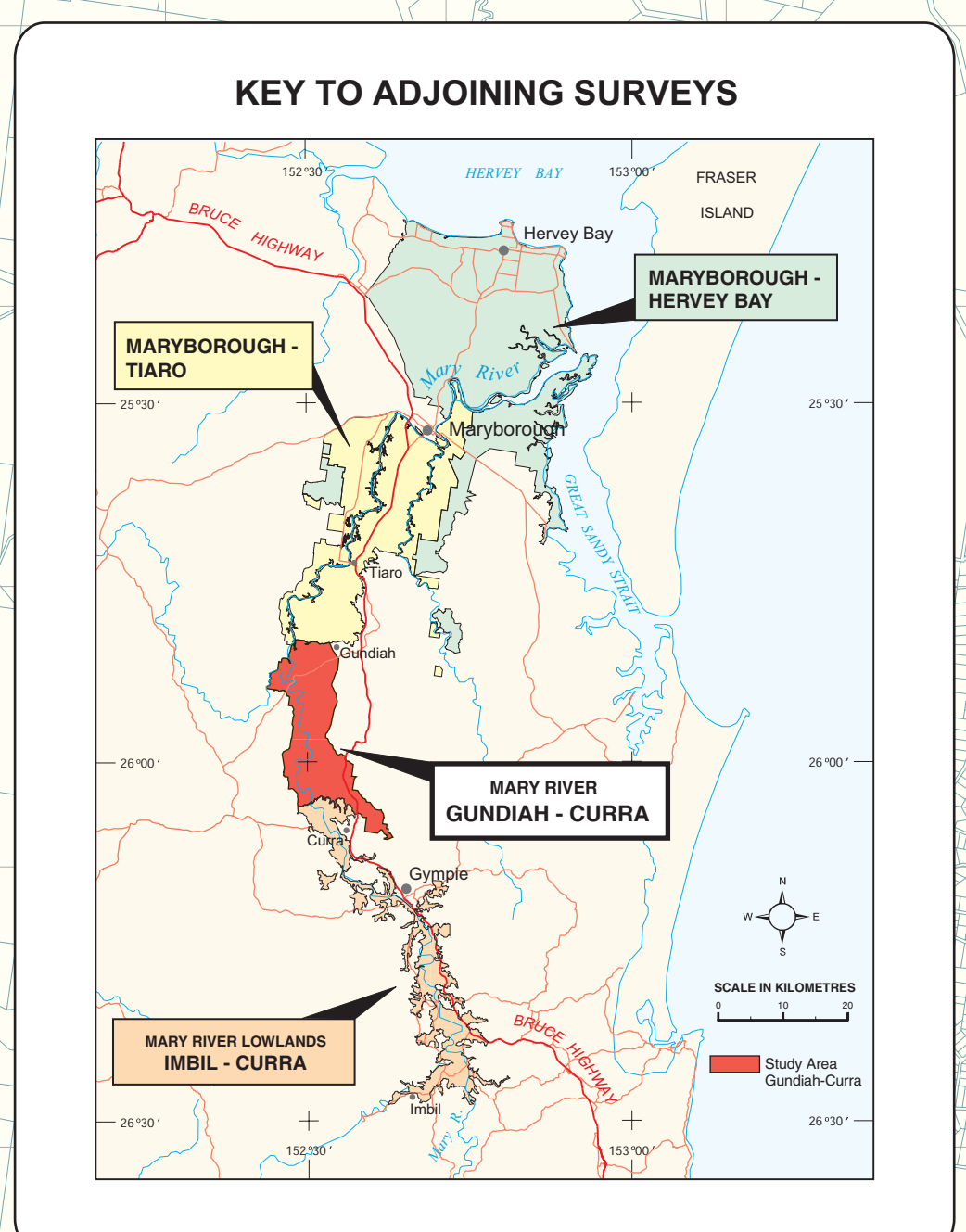


REFERENCE

Mapping Unit	Major Attributes of Dominant soil	Australian Classification	Great Soil Group	Principle Profile Form	Area (ha)
PODOSOLS					
HILLSLOPES ON MODERATELY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS					
Ripv	Rothchild Podzolic variant	Black to grey sand to loamy sand surface with a bleached A2 horizon (0.4 to 0.8m) over an acid, single grain, grey to yellow sand (0.2 to 1.5m) over a brown or yellow crystalline part (1.5 to 1.6m) over weathered sandstone.	Aeric Podsol	Podzol	Uc2.32 Uc2.12
VERTOSOLS					
ALLUVIAL PLAINS AND SWAMPS					
Pe	Pelton	Rock mat (D1 horizon) (in undisturbed areas) overlying a black to grey light medium to medium clay surface (0.12 to 0.23m) over a neutral to alkaline, black, brown to grey, light medium clay to medium clay subsoil (0.5 to 1.5m) over an alkaline, mottled, grey light medium to medium clay.	Aquic Vertisol Brown Vertisol Grey Vertisol	Weiserboden Brown clay Grey clay	Ug5.35 Ug5.16 Dg4.41
HYDOSOLS					
LOWER SLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS					
Rb	Rotbur	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 1.0m) over an acid, mottled, sodic, grey sandy light clay to heavy clay.	Redoxic Hydrosol Grey Hydrosol	Sokoth	Dy3.41 Dg2.41 Dg4.41
ALLUVIAL PLAINS OF THE MARY RIVER					
Tb	Timbril	Black to grey silty clay loam, silty clay to light medium clay surface over a bleached A2 horizon (0.2 to 0.4 m) over a neutral to alkaline, mottled, grey to brown light medium clay to medium heavy clay.	Redoxic Hydrosol Oxyaquic Hydrosol Brown Hydrosol	No suitable group, affinity with sodic soils	Gc3.03 Gc3.08 Gc3.93 U2 U6 U8.41
Wb	Woober	Black to grey clay loam, silty clay loam, silty clay to light medium clay surface over a bleached A2 horizon (0.2 to 0.3m) over an acid, mottled, grey light medium clay to heavy clay.	Redoxic Hydrosol	No suitable group, affinity with sodic	U2 U3 Gc3.04 Gc3.05
KUROSOLS					
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS					
Ko	Kolan	Black to grey fine sandy clay loam to clay loam fine sandy surface over a bleached A2 horizon (0.15 to 0.3m) over a strongly acid to acid, mottled, sodic, grey to brown medium clay to heavy clay (0.5m-1) over weathered rock.	Grey Kurosol Brown Kurosol Grey Sodosol	Sokoth	Dy3.41 Dg3.31
KoRp	Kolan rocky phase	As above with > 20% rock fragments on the surface.	Grey Kurosol Grey Sodosol	Sokoth	Dy3.41
KoRv	Kolan red variant	As above with red B2 horizon with 20-50% grey mottles.	Red Kurosol	Sokoth	Dg3.41
SODOSOLS					
HILLSLOPES ON MICRODORITE ROCKS					
Gn	Gigoon	Black to grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.2 to 0.4 m) over an acid to neutral, frequently mottled, grey to brown medium clay to heavy clay (0.5 to 1.2m) over weathered mesodiorite.	Brown Sodosol Grey Sodosol	Sokoth Sodic soil Sodized solonch	Dy3.42 Dg2.41 Dg3.41 Dg4.41
Do	Doongul	Black to grey light sandy clay loam to clay loam sandy surface over a bleached A2 horizon (0.2 to 0.3m) over an acid to neutral, frequently mottled, grey to brown medium clay to heavy clay (0.5 to 1.2m) over weathered rock.	Grey Sodosol Brown Sodosol	Sokoth Sodic soil Sodized solonch	Dy2.41 Dg3.42 Dg4.41 Dg2.32
HILLSLOPES ON MODERATELY WEATHERED ANDESITE AND MICRODORITE ROCKS					
Ow	Owenyilla	Black to grey fine sandy loam to clay loam surface over a conspicuously or sporadically bleached A2 horizon (0.03 to 0.35) over an acid to neutral mottled, brown to grey light medium clay to heavy clay (0.35 to 0.95) with ferromanganese nodules frequently over a mottled, neutral to alkaline, brown, grey to yellow medium clay to heavy clay with andesite fragments.	Brown Sodosol Grey Sodosol	Sodic soil Minor sodic	Dy3.32 Dy3.33 Dg3.43 Dg4.42
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS					
Ov	Ovelide	Black to grey fine sandy clay loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) over an acid to neutral, mottled, brown or yellow medium clay to heavy clay (0.45 to 1.3m) over weathered rock.	Brown Sodosol Yellow Sodosol	Sodic Sodic soil	Dy3.41 Dy3.42
Tr	Timran	Black to grey sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over an acid to neutral, mottled, grey to brown sandy medium clay (0.45 to 1.2m) over weathered rock.	Grey Sodosol Brown Sodosol	Sodic Sodic soil	Dy3.41 Dy3.42
ALLUVIAL PLAINS OF THE MARY RIVER					
But	Butcher	Black to grey fine sandy clay loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) over an acid to alkaline, mottled, grey to brown light medium clay to heavy clay.	Grey Sodosol Brown Sodosol Redoxic Hydrosol	Sodic Sodic soil	Dy3.41 Dg3.42 Dg4.41
Butv	Butcher variant	Black to grey sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.15 to 0.3 m) over an acid to neutral, mottled, grey to brown light medium clay to heavy clay.	Grey Sodosol Brown Sodosol	Sodic Sodic soil	Dy4.41 Dg4.43 Dg4.43
CHROMOSOLS					
HILLSLOPES ON PHYLITE ROCKS					
Bh	Beerham	Black to grey loam to clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.3m) over an acid, mottled, grey, yellow or brown light medium to medium to medium clay.	Grey Chromosol Yellow Chromosol Brown Chromosol Grey Demosol	Sodic Gleyed podzolic soil Yellow podzolic soil	Dy3.41 Dg2.41
HILLSLOPES AND PLAINS ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS					
Al	Alloway	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 0.9m) over an acid, mottled, non-sodic, grey light clay to medium clay.	Grey Chromosol Redoxic Hydrosol	Gleyed podzolic soil	Dg2.41 Dg4.41 Dy3.41
Is	Isla	Grey to occasionally black sandy loam surface over a conspicuously bleached A2 horizon (0.3 to 0.7m) over an acid, mottled, yellow to brown light clay to medium clay.	Yellow Chromosol Yellow Chromosol Brown Chromosol Brown Demosol	Yellow podzolic soil	Dy3.41 Gc3.84
IsRp	Isla Rocky Phase	As above with >10% coarse fragments, >0.06m and/or >10% surface coarse fragments, >0.06m in size throughout A2 and/or B horizons.	Yellow Chromosol Yellow Chromosol Clastic Chromosol	Yellow podzolic soil	Dy3.41 Gc3.84
FERROSOLS					
HILLCRESTS AND PLAINS ON DEEPLY WEATHERED ANDESITE ROCKS					
Bd	Bidwell	Red to occasionally black, acid or neutral, light clay to light medium clay surface (0.1 to 0.4m) over an acid to neutral, frequently mottled, grey to brown medium clay to heavy clay (>1.5m) frequently with manganese nodules over weathered rock.	Red Ferrosol	Krasnozem	U6.21 U6.22
DERMOSOLS					
HILLSLOPES ON MODERATELY WEATHERED ANDESITE OR MICRODORITE ROCKS					
Nb	Netherby	Black to grey clay loam to light medium clay surface over sporadically bleached clay loam to light clay A2 horizon (0.1 to 0.2m) over a brown to grey light medium clay to medium clay (0.3 to 0.45m) over a mottled, brown to grey light medium clay to medium clay (0.5 to 1.7m) with manganese soil segregations or nodules over weathered rock.	Brown Demosol Grey Demosol	No suitable group, affinity with prairie soil	Gc3.63 Gc3.83
Ta	Tiaro	Black to brown clay loam to light medium clay surface (0.05 to 0.35m) over a neutral to alkaline, black to brown light clay to medium clay (0.7 to 0.85m) over a grey light clay to medium heavy clay (0.55 to 0.85m) with rock fragments and occasional carbonate nodules over weathered rock.	Black Demosol Brown Demosol	Prairie soil	U6.32 Gc3.92 Gc3.22
TaRv	Tiaro red variant	Black to brown clay loam to light medium clay surface (0.05 to 0.35m) over a neutral to alkaline, red light clay to medium clay (0.2 to 0.65m) over a brown light clay to medium heavy clay (0.55 to 0.85m) with rock fragments over weathered rock.	Red Demosol	Prairie soil	Gc3.12 U6.31
HILLSLOPES ON DEEPLY WEATHERED ANDESITE ROCKS					
Jp	Jumpo	Grey to brown clay loam to light medium clay surface (0.1 to 0.3m) over a mottled, neutral, brown to yellow light clay to medium heavy clay with manganese nodules.	Brown Demosol Yellow Demosol	No suitable group, affinity with xanthozem	U6.41 U6.42 U6.43 Gc3.72
HILLSLOPES ON PHYLITE ROCKS					
Nd	Needle	Black to brown clay loam to light clay surface occasionally over a A2 horizon (0.2 to 0.3m) over an acid, mottled, grey or yellow light medium to medium clay.	Brown Demosol Yellow Demosol Grey Demosol	No suitable group	U6.4 U6.4 Gc3.21
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS					
Bc	Bucca	Grey, brown to black light clay to medium clay surface (0.15 to 0.2m) over a mottled, acid, grey to brown medium clay to heavy clay (0.2 to 1.3m) frequently with ferrous nodules over an acid, grey, light clay to heavy clay (0.7 to 1.5m) with coarse fragments over weathered rock.	Grey Demosol Brown Demosol Brown Vertisol Grey Vertisol	No suitable group, affinity with grey clay	U3 U6.24 Ug1.35
HILLCRESTS ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS					
Kp	Keponok	Grey to black fine sandy clay loam to clay loam surface over a bleached A2 horizon (0.3 to 0.45m) over an acid, mottled, yellow to brown light clay to medium clay with ferrous nodules.	Yellow Demosol Brown Demosol Yellow Chromosol Brown Chromosol	Yellow podzolic soil	Gc3.84 Gc3.81 Dy3.41
Wt	Watalgan	Black to brown clay loam surface over an acid, red light clay to medium clay with ferrous nodules.	Red Demosol Red Ferrosol	Red podzolic soil	Gc3.14 Gc3.11p Gc2.21 U6.31p
ALLUVIAL PLAINS OF THE MARY RIVER					
Ad	Aldershot	Grey, black to brown fine sandy loam to fine sandy clay loam surface (0.1 to 0.30m) over a neutral, red light clay to light medium clay frequently with manganese nodules.	Red Demosol	Red brown earth	Dg2.21 Gc3.22 Gc3.72
Co	Copenhagen	Brown to black, loam to clay loam surface (0.05 to 0.5m) over neutral, brown loam to fine sandy light clay A2 horizon (0.5 to 0.85m) over a brown or black, neutral, sandy clay loam to fine sandy light clay (0.85 to 1.5m) over a brown alluvial sand or loam.	Brown Demosol Black Demosol Orthic Tenosol	Prairie soil Alluvial soil	Gc3.22 U6.52 U6.31 U6.32 U6.31
Gr	Granville	Black to grey light clay to light medium clay surface over a sporadically bleached A2 horizon (0.1 to 0.25m) over an acid, mottled, grey to brown medium clay to heavy clay.	Grey Demosol Brown Demosol Redoxic Hydrosol Brown Vertisol	No suitable group, affinity with grey clay	U3 Ug3.2
Mg	Mungar	Black to grey silty light clay to silty light medium clay over a sporadically bleached light clay to light medium clay A2 horizon (0.1 to 0.25m) over an alkaline, grey to brown light medium clay to medium heavy clay with manganese and/or calcareous nodules.	Brown Demosol Grey Demosol	No suitable group, affinity with grey clay	U3
Mv	Miva	Black to grey clay loam to light clay over a sporadically bleached light to light medium clay A2 horizon (0.1 to 0.25m) over an alkaline, black light medium clay to medium heavy clay with manganese and/or calcareous nodules.	Black Demosol	No suitable group, affinity with black clay	U3
My	Mary	Black to brown silty clay loam to silty light clay surface (0.1 to 0.25m) over an acid to neutral, brown light clay to medium clay.	Brown Demosol	Prairie soil	Gc3.21 U6.31
MyDv	Mary Dark Variant	Black silty clay loam to silty light clay surface (0.1 to 0.25 m) over an acid to neutral, black light clay to medium clay.	Black Demosol	Prairie soil	U6.32
Wk	Walker	Black to occasionally grey silty clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey to black light medium clay to heavy clay (0.4 to 1.2m) becoming greyer at depth.	Grey Demosol Brown Demosol Black Demosol	Humic gley	Gc3.81 Gc3.92 U6.41
ALLUVIAL PLAINS OF LOCAL CREEKS					
Gy	Guthy	Black to grey light medium clay surface (0.2 to 0.4m) over an alkaline, black, grey to brown medium clay to medium heavy clay (1.2 to 1.5m) over strongly alkaline, grey medium heavy clay with calcareous nodules, gravels and grit.	Grey Demosol Redoxic Hydrosol Oxyaquic Hydrosol	No suitable group, affinity with prairie soil	U6.32 U6.33
KANDOSOLS					
HILLCRESTS ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS					
Ff	Farnfield	Red to brown loamy sand to sandy clay loam surface (0.35 to 0.5m) over an acid to neutral, red sandy clay loam to light clay.	Red Kandosol	Red Earth	Gc2.11 Gc2.12 U6.52
ALLUVIAL PLAINS OF LOCAL CREEKS					
Lt	Litabell	Black to grey sandy loam to loam fine sandy surface (0.4 to 0.9m) over an acid to neutral, yellow, grey to red sandy loam to clay loam sandy.	Yellow Kandosol Grey Kandosol Red Kandosol Orthic Tenosol	Yellow earth No suitable group Earthy sand	U6.52 U6.23 Gc2.71 Gc2.84 Uc5.22
RUDOSOLS					
ALLUVIAL PLAINS OF THE MARY RIVER					
Ba	Baddow	Brown sand to sandy loam surface (0.1 to 0.25m) over layered brown sand to loamy sand.	Stralic Rudosol	Siliceous sand Alluvial soil	Uc1.23 Uc1.21
Ja	Johnson	Grey or brown sandy loam to clay loam sandy surface (0.1 to 0.4m) over cobble.	Clastic Rudosol Bleached-licolic Tenosol	Lithosol	Uc1.21
TENOSOLS					
HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS					
Rt	Rothchild	Black to grey sand to sandy loamy surface usually with an A2 horizon (0.4 to 0.9m) over an acid, massive, red, brown to yellow loamy sand to sandy loam (0.6 to 1.15m) over weathered sandstone.	Bleached-Orthic Tenosol Orthic Tenosol	(Bleached) Earthy sand Earthy sand	Uc2.21 Uc4.21 Uc4.22
Wf	Winfield	Grey sand to loamy sand surface over a conspicuously bleached A2 horizon (0.3 to 0.65 m) over an acid, mottled, massive, grey loamy sand to sandy loam.	Bleached-Orthic Tenosol	(Bleached) Earthy sand	Uc2.21 Uc2.22
TrRp	Tirran rocky phase	Black to grey loamy fine sand or a loamy sand surface over a bleached A2 horizon (0.2 to 0.3m) over rock.	Bleached-Orthic Tenosol Clastic Rudosol	Lithosol	Uc2.12
MISCELLANEOUS UNITS					
DLU	Urban	Urban, suburban, and rural residential areas with land parcels less than 5 ha in size.			
DAM	Water storage	Large water storages			
STC	Stream Channel	Rivers, major creeks			



MAPPING UNIT CODE EXPLANATION

- The primary division in the reference is based on the dominant Soil Order of the Australian Soil Classification, (Isbell 1996) for each mapping unit.
- Variants and phases of soil types may occur, for example, MyDv, TrRp. Such mapping units are described by the major attributes of the model soil 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
- Within areas of great variability, the mapping unit is a soil complex with more than one soil being co-dominant. Where this occurs, the mapping unit is named after all the co-dominant soils, for example, GnDo.

MISCELLANEOUS SYMBOLS

- These bracketed qualifiers are not an official part of Great Soil Group names.
- The p symbol indicates ploughed surface horizons.

SOIL BOUNDARY CONFIDENCE LEVEL

- Observed
- Approximate

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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 hectares.

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BASE MAP Digital Cadastral Data Base, Department of Natural Resources and Mines, 2002

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Natural Resources and Mines

MARY RIVER GUNDIAH - CURRA SOILS

SCALE 1 : 50 000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION

GREY NUMBERED GRID LINES ARE AT 200 METRE INTERVALS OF THE MAP GRID OF AUSTRALIA, ZONE 56 GD49
GRID VALUES ARE SHOWN IN FULL AT THE CORNERS OF THE SHEET

MARY RIVER
GUNDIAH - CURRA
SOILS
NR68 Ref No. OCL-I-40 1334