

# LAND RESOURCES OF THE DALY RIVER AGRICULTURAL AREA

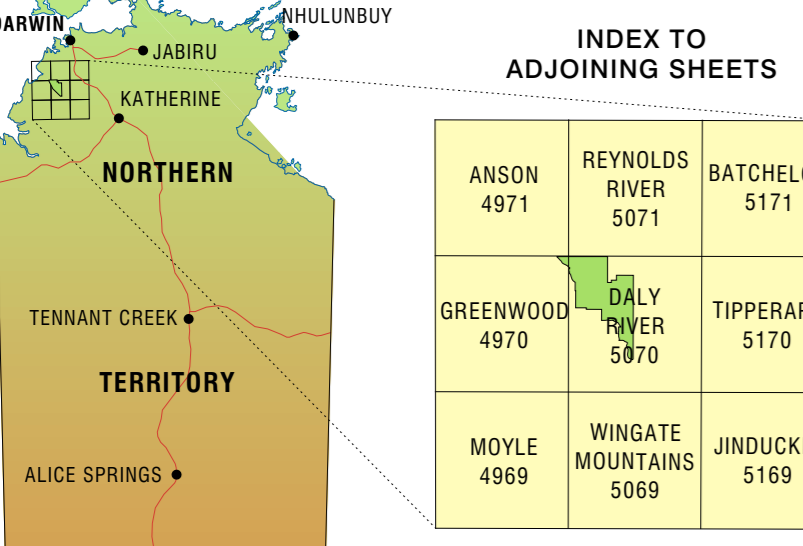
For further information contact:  
 Manager, Land Science Branch, Natural Resources Division  
 Department of Natural Resources, Environment, The Arts and Sport  
 Ph. (08) 8999 3656; Fax. (08) 8999 3666  
 Goyder Centre, Chung Wah Terrace, Palmerston, Northern Territory of Australia.

**BIBLIOGRAPHIC REFERENCE:**  
 Fogarty, P.J. and Gibbs, C.R. (1976)  
**REPORT ON THE LAND UNITS OF THE DALY RIVER AGRICULTURAL AREA**  
 Land Conservation Section, Animal Industry and Agriculture Branch, Northern Territory Administration, DARWIN, NT.

**TECHNICAL REFERENCES:**  
 Isbell R.F. (1998). 'The Australian Soil Classification'. CSIRO Publishing, Melbourne.  
 McDonald R.C., Isbell R.F., Speight J.G., Walker J., and Hopkins M.S. (1998).  
 'Australian Soil and Land Survey Field Handbook', 2nd edition, Inkata Press, Melbourne.

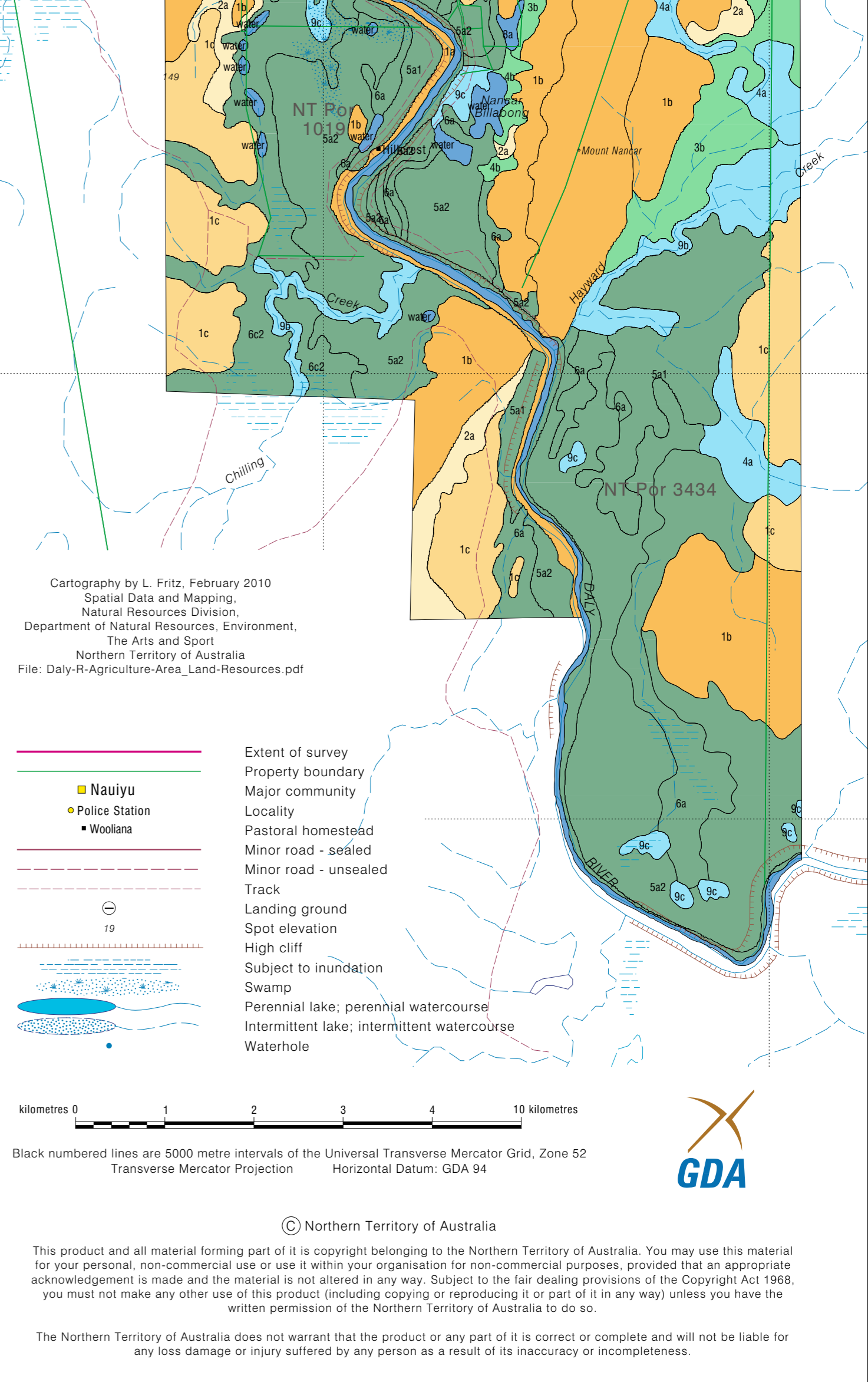
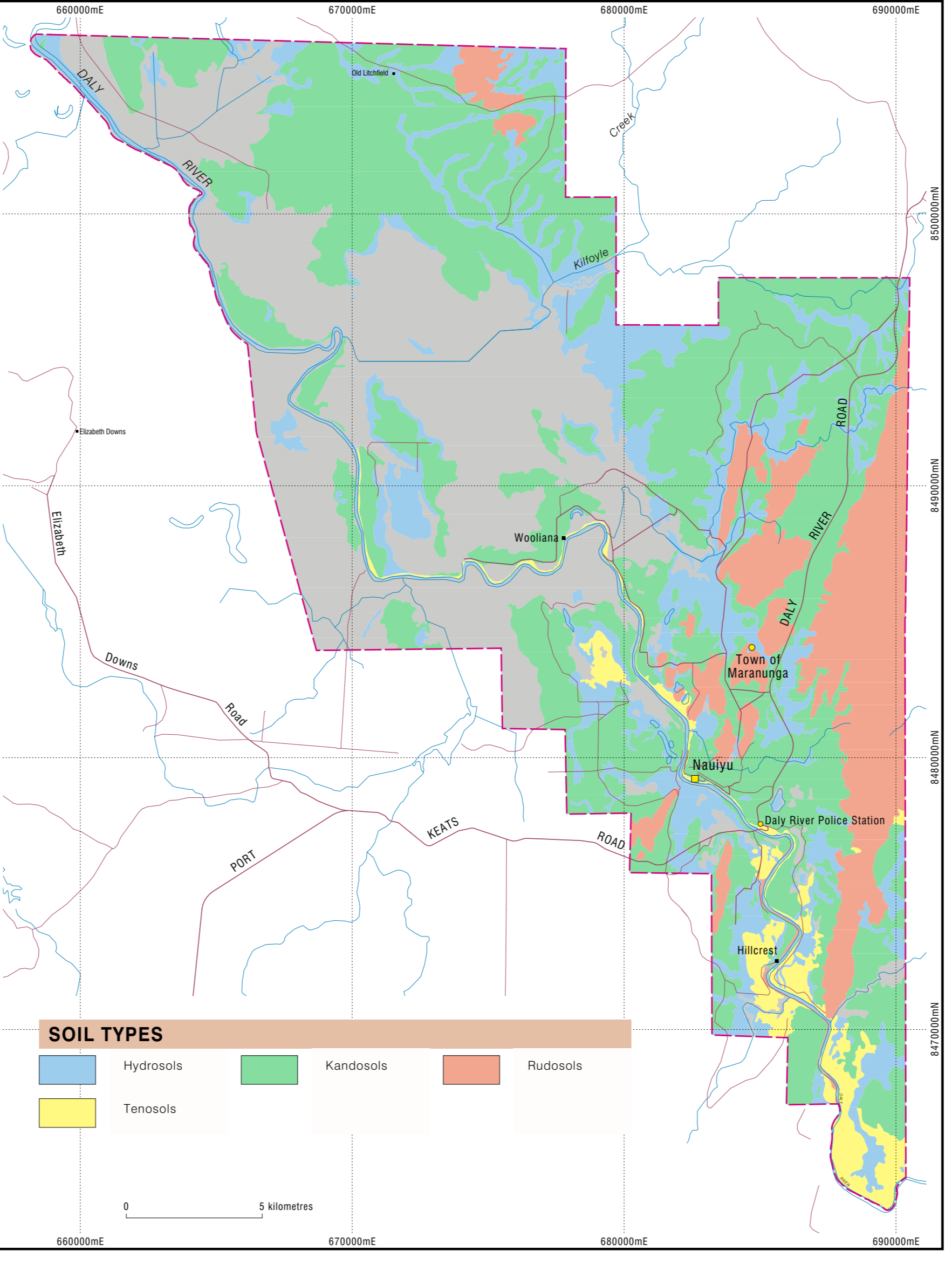
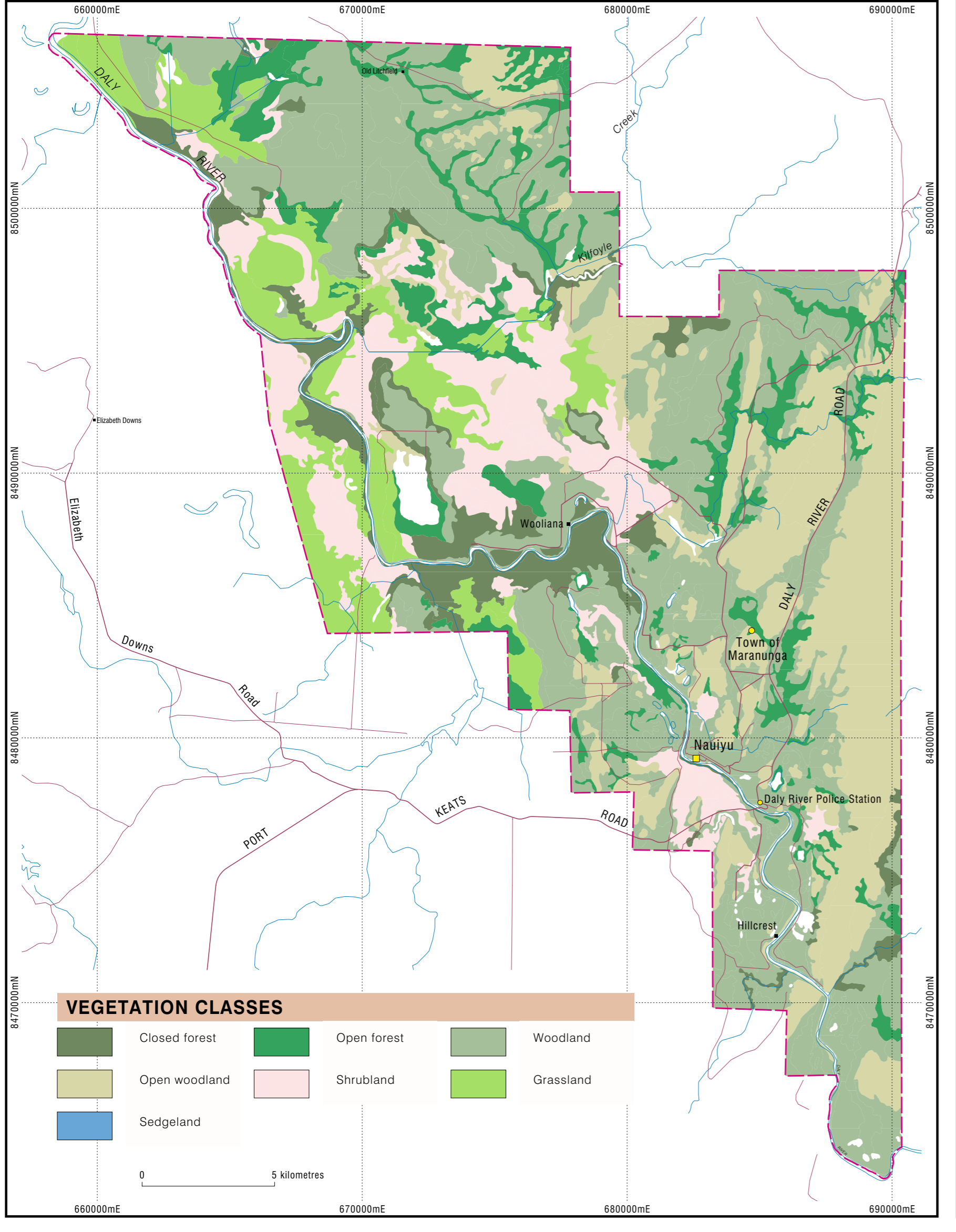
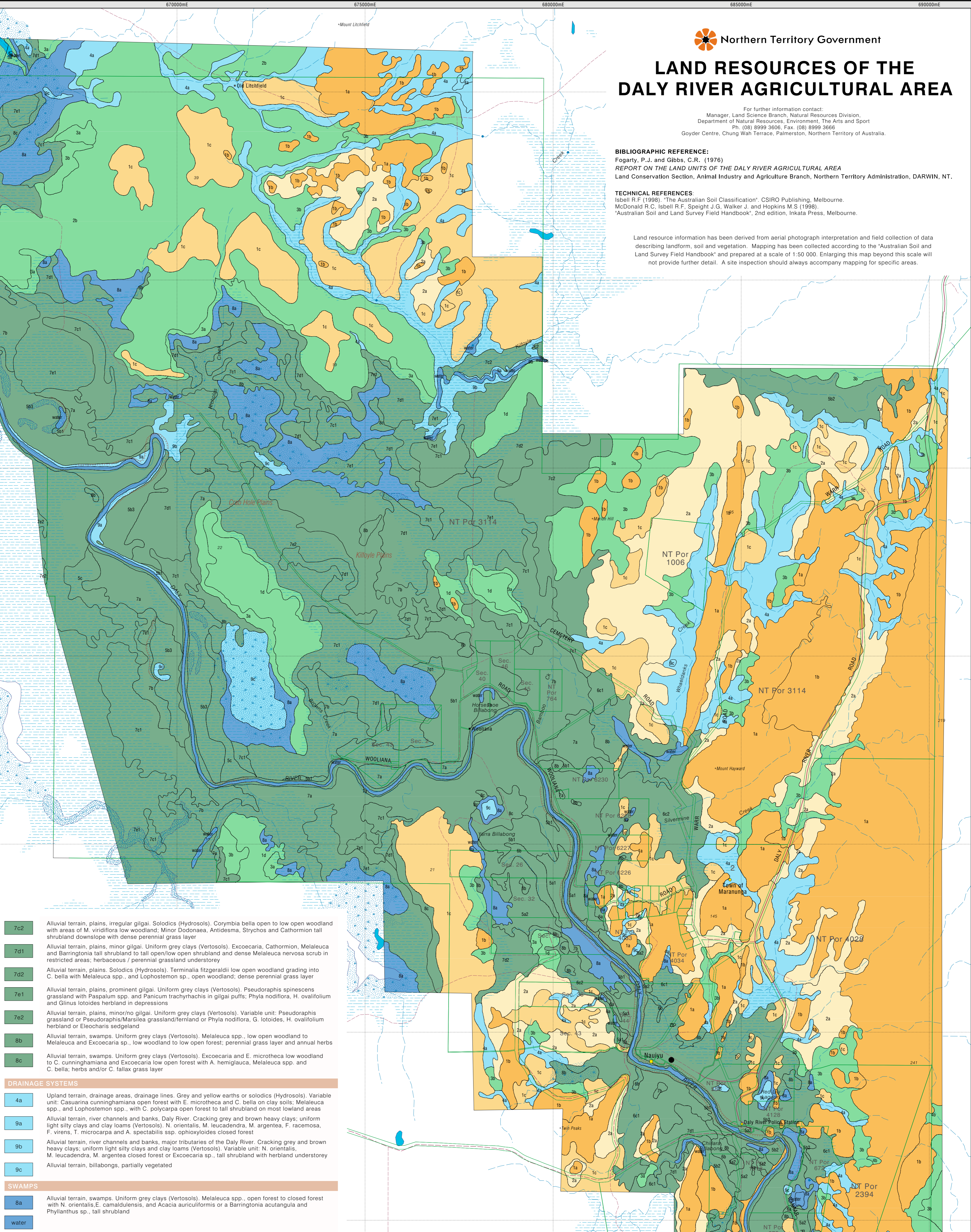
Land resource information has been derived from aerial photograph interpretation and field collection of data describing landform, soil and vegetation. Mapping has been collected according to the 'Australian Soil and Land Survey Field Handbook' and prepared at a scale of 1:50 000. Enlarging this map beyond this scale will not provide further detail. A site inspection should always accompany mapping for specific areas.

## MAP LOCALITY & 1:100 000 MAP SHEET INDEX



## LAND UNIT DESCRIPTIONS

- LOW HILLS**
- 1a** Upland terrain, hills, high hills, relief 50-200 m, slopes 20-40%. Shallow lithosols (Kandosols). *Eucalyptus miniata*, *E. phoenicea* and *Corymbia dichromopholia* low open woodland to woodland; perennial and annual grass layer
  - 1b** Upland terrain, hills, low hills, relief 10-50 m, slopes 10-30%. Shallow lithosols (Kandosols). *Corymbia dichromopholia*, *E. miniata*, *E. tectifica* and *C. polysciada* low open woodland to low woodland; perennial and annual grass layer
- RISES**
- 1c** Upland terrain, hills, rounded hills, relief 5-15 m, slopes 5-10%. Lithosols (Kandosols). *Eucalyptus tectifica*, *C. polysciada* low woodland in higher better drained areas; *Corymbia bella*, *Lophostemon* sp., and *Melaleuca* spp., woodland to open woodland in poorer drained areas
- LOW RISES**
- 2a** Upland terrain, wash slopes 5-10%, gravelly surface. Lithosols (Kandosols). *Corymbia polysciada*, *E. tectifica* and *E. chlorostachys* low woodland with perennial and annual grass layer
- PLAINS**
- 1d** Upland terrain, hills, residual rises, relief 2-10 m, slopes <5%. Lithosols (Kandosols). Variable unit. *Corymbia bella*, *C. australiana*, *Melaleuca* spp., and *Lophostemon* sp., woodland on deeper soils; *Petalostigma subscissum*, *Eugenia blesseri* and *Livistona humilis* tall shrubland on poorer gravelly soils
  - 2b** Upland terrain, wash slopes <5%. Gravelly yellow earths (Kandosols). *C. polycarpa*, *E. miniata* and *C. ferruginea* with *C. bella* woodland; perennial and annual grass layer
  - 3a** Upland terrain, colluvial slopes, poorly drained, slopes 1-3%. Deep yellow earths (Hydrosols). *Melaleuca* spp., and *Lophostemon* sp., tall shrubland to low closed forest; *C. bella* low open forest to woodland in better drained areas
  - 3b** Upland terrain, colluvial slopes, well to moderately well drained, slopes 3-6%. Yellow earths (Kandosols). Variable unit. *E. miniata*, *E. chlorostachys*, *C. foelscheana* and *E. tectifica* woodland to mixed low woodland in higher areas; *C. polysciada*, *C. polycarpa*, *Lophostemon* sp., and *Melaleuca* spp., open woodland in poorly drained areas
  - 4b** Upland terrain, drainage areas, seepage areas - restricted occurrence. Organic sands (Tenosols). *Xanthostemon eucalyptoides*, *Calophyllum soulatii* and *Gmelina schlechteri* closed forest
- ALLUVIAL PLAINS**
- 5a1** Alluvial terrain, levees, sandy, flat to gently undulating, relief 2 m. Uniform sandy yellow earths (Kandosols). *Corymbia bella*, *C. polycarpa*, *E. miniata*, *E. chlorostachys*, *Eugenia* spp. and *Buchanania obovata* woodland to open forest with perennial and annual grass layer
  - 5a2** Alluvial terrain, levees, sandy, undulating, relief 2-5 m. Earthy sands (Tenosols). As for 5a1. *Lophostemon* sp., and *Melaleuca* spp., with minor *E. camaldulensis*, *N. orientalis* and *B. acutangula* on lower poorly drained areas
  - 5b1** Alluvial terrain, levees, loamy, flat to gently undulating, relief <2 m. Yellow earths (Kandosols). *Corymbia bella* low woodland to low open forest grading into *C. polysciada*, *T. microcarpa*, *A. auriculiformis* and *Melaleuca* spp., open forest; annual and perennial grass layer
  - 5b2** Alluvial terrain, levees, loamy, broadly undulating, relief 2-5 m. Yellow earths (Kandosols). *Corymbia bella* woodland to open forest with *C. polycarpa* and *E. microtheca*; *Lophostemon* sp., and *Melaleuca* spp., dominant in poorly drained areas
  - 5b3** Alluvial terrain, levees, loamy, closely undulating, relief 2-5 m. Yellow earths (Kandosols). *Arundinella* sp., *P. mindanaense* and *C. latifolius* tall grassland or *F. virosa* tall shrubland on levees; *B. acutangula* tall shrubland on scrolls; *M. dealbata* open forest on swales; *M. dealbata*, *N. orientalis* and *Alcalypha hemigaula* on parallel ridges
  - 5c** Alluvial terrain, levees, clay, undulating, relief 2-5 m. Light to medium uniform clays (Hydrosols). *Panicum mindanaense* and *Urochloa* spp., grassland; minor *Terminalia microcarpa*, *Melaleuca dealbata*, *Acacia auriculiformis* and *Bombax ceiba* open woodland
  - 6a** Alluvial terrain, drainage depressions, sandy. Uniform earthy sands (Hydrosols). *Corymbia polycarpa*, *E. camaldulensis*, *Lophostemon* sp., and *Melaleuca* spp., low woodland; woodland or open forest, annual and perennial grass layer
  - 6b** Alluvial terrain, drainage depressions, narrow clay. Uniform brown clays (Hydrosols). Variable unit: *Excoecaria* sp., tall shrubland or *E. microtheca* and *C. bella* low woodland; minor *E. burskii* and *P. scrobiculatum* grassland in channels or *C. bella* and *Melaleuca* spp., open forest in low depressions
  - 6c1** Alluvial terrain, drainage depressions, broad clay, relief 2 m. Uniform brown clays (Hydrosols). *Excoecaria parvifolia*, *C. umbellatum* and *E. microtheca* tall shrubland to open scrub with *Hypoestes forficata* and *Centropodia minima* herbland understory
  - 6c2** Alluvial terrain, drainage depressions, broad clay, relief 2-5 m. Uniform brown clays (Hydrosols). Variable unit: *C. bella* woodland with *C. polycarpa* and *Lophostemon* sp. in higher areas; *E. microtheca* woodland in fringing, inundated areas; *Casuarina* sp., and *Excoecaria* open forest or *E. microtheca* low open woodland in poorly drained lower areas
  - 7a** Alluvial terrain, plains. Uniform grey clays and yellow earths (Vertosols). *Flueggea virosa* closed scrub with *C. anacardioides*, *S. lucida* and *Milletia primaia* or *Cupressus*, *Strychnos*, *Excoecaria latifolia* and *Ziziphus oenoplia* mixed closed scrub
  - 7b** Alluvial terrain, plains. Uniform grey clays and yellow earths (Vertosols). *Flueggea virosa* closed scrub with *C. anacardioides*, *S. lucida* and *Milletia primaia* or *Cupressus*, *Strychnos*, *Excoecaria latifolia* and *Ziziphus oenoplia* mixed closed scrub
  - 7c1** Alluvial terrain, plains, minor gilgai. Uniform grey clays (Vertosols). *Excoecaria* sp., *M. dealbata*, *Cathormion* and *Barringtonia* tall shrubland to open scrub; dense stands of *Melaleuca nervosa* scrub in restricted areas; *Pseudoraphis spinescens* perennial grass layer
- DRAINAGE SYSTEMS**
- 4a** Upland terrain, drainage areas, drainage lines. Grey and yellow earths or solodics (Hydrosols). Variable unit: *Casuarina cunninghamiana* open forest with *E. microtheca* and *C. bella* on clay soils; *Melaleuca* spp., and *Lophostemon* sp., with *C. polycarpa* open forest to tall shrubland on most lowland areas
  - 9a** Alluvial terrain, river channels and banks, Daly River. Cracking grey and brown heavy clays; uniform light silty clays and clay loams (Vertosols). *N. orientalis*, *M. leucadendra*, *M. argentea*, *F. virosa*, *T. microcarpa* and *A. spectabilis* spp., ophiocloids closed forest
  - 9b** Alluvial terrain, river channels and banks, major tributaries of the Daly River. Cracking grey and brown heavy clays; uniform light silty clays and clay loams (Vertosols). Variable unit: *N. orientalis*, *M. leucadendra*, *M. argentea* closed forest or *Excoecaria* sp., tall shrubland with herbland understory
  - 9c** Alluvial terrain, billabongs, partially vegetated
- SWAMPS**
- 8a** Alluvial terrain, swamps. Uniform grey clays (Vertosols). *Melaleuca* spp., open forest to closed forest with *N. orientalis*, *E. camaldulensis*, and *Acacia auriculiformis* or a *Barringtonia acutangula* and *Phyllanthus* sp., tall shrubland



Cartography by L. Fritz, February 2010  
 Spatial Data and Mapping,  
 Natural Resources Division,  
 Department of Natural Resources, Environment,  
 The Arts and Sport  
 Northern Territory of Australia  
 File: Daly-R-Agriculture-Area\_Land-Resources.pdf

Extent of survey  
 Property boundary  
 Major community  
 Locality  
 Pastoral homestead  
 Minor road - sealed  
 Minor road - unsealed  
 Track  
 Landing ground  
 Spot elevation  
 High cliff  
 Subject to inundation  
 Swamp  
 Perennial lake; perennial watercourse  
 Intermittent lake; intermittent watercourse  
 Waterhole

0 1 2 3 4 5 10 kilometres

Black numbered lines are 5000 metre intervals of the Universal Transverse Mercator Grid, Zone 52  
 Transverse Mercator Projection  
 Horizontal Datum: GDA 84

© Northern Territory of Australia

This product and all material forming part of it is copyright belonging to the Northern Territory of Australia. You may use this material for your personal, non-commercial use or use it within your organisation for non-commercial purposes, provided that an appropriate acknowledgement is made and the material is not altered in any way. Subject to the fair dealing provisions of the Copyright Act 1968, you must not make any other use of this product (including copying or reproducing it or part of it in any way) unless you have the written permission of the Northern Territory of Australia to do so.

The Northern Territory of Australia does not warrant that the product or any part of it is correct or complete and will not be liable for any loss or damage or injury suffered by any person as a result of its inaccuracy or incompleteness.