

# LAND RESOURCES OF THE ALI CURUNG AREA

ALI CURUNG AREA - Map 1 of 9

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 Web: http://nrmaps.nt.gov.au Map Reference: Ali-Curung\_Land-Resources\_Map-1-of-9

## LAND UNIT DESCRIPTIONS

- LOW RISES**
- 7a1** Gently undulating to undulating, elongated calcareous ridges and very low rises; local relief 2-5 m; slopes 1-5%. Very shallow to very deep (0.1-1.5 m), sometimes rocky, soft or firm, massive red earthy sands (loamy sand subsoil) overlying calcareous (Petrocalcic Leptic Fluvisol), Petrocalcic or Arenic Red-Orthic Tenosol). Triodia mid open hummock grassland with isolated Eucalyptus pachyphylla +/- Corymbia opaca and Acacia sericophylla.
  - 7b1** Gently undulating to undulating, aeolian derived, elevated sand ridges and very low rises; local relief 2-5 m; slopes 1-5%. Very deep (>1.5 m), loose or soft, massive red siliceous sands (loamy sand subsoil) (Arenic Red-Orthic Tenosol). Triodia mid hummock grassland with isolated Eucalyptus pachyphylla.
- SAND PLAINS**
- 18a1** Very gently undulating, aeolian derived, low broad sand masses; local relief <2 m; slopes <1.5%. Very deep (>1.5 m) loose or soft, massive red siliceous sands (loamy sand subsoil) (Arenic or Regolithic Red-Orthic Tenosol). Triodia mid open hummock grassland with isolated Acacia sericophylla +/- Corymbia opaca and Eucalyptus pachyphylla.
  - 18a2** Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), soft or firm, massive red earthy sands (sandy loam subsoil) (Regolithic Red-Orthic Tenosol). Triodia mid open hummock grassland with isolated Corymbia opaca and/or Acacia sericophylla and occasional mixed low sparse shrubland/forbland.
  - 18a3** Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), soft, firm or hardsetting, massive red earthy sands (sandy loam subsoil) (Regolithic Red-Orthic Tenosol). Acacia kempeana +/- Acacia aneura tall sparse shrubland over Triodia mid open hummock grassland.
  - 18a4** Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), firm or hardsetting, sandy surfaced, massive red gradational earths (sandy clay loam subsoil) with sparse termitaria (Mesotrophic or Eutrophic Red Kandosol). Triodia mid open hummock grassland with isolated Corymbia opaca and/or Acacia sericophylla and occasional mixed low sparse shrubland/forbland.
  - 18a5** Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), firm or hardsetting, sandy surfaced, massive red gradational earths (sandy clay loam to clay loam sandy subsoil) with occasional termitaria (Mesotrophic or Eutrophic Red Kandosol). Acacia aneura low open woodland over Aristida mid tussock grassland OR Acacia kempeana +/- Acacia aneura tall sparse shrubland over mixed mid open grassland.
  - 18a6** Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), firm or hardsetting, sandy surfaced, massive red gradational earths (sandy clay loam subsoil) with sparse to common termitaria (Mesotrophic or Eutrophic Red Kandosol). Acacia lysiphilia mid open shrubland over Triodia mid open hummock grassland with isolated Hakea chordophylla and Corymbia opaca.
- DRAINAGE SYSTEMS**
- 10a1** Transitional backplains and flood-out margins; local relief <1.2 m; slopes <1.0%; rarely inundated. Very deep (>1.5 m), firm or hardsetting, sandy surfaced, massive red gradational earths (sandy clay loam subsoil) with common termitaria (Eutrophic Red Kandosol). Triodia mid hummock grassland with isolated Eucalyptus victrix +/- Acacia sericophylla and Acacia aneura.
  - 10a2** Slightly elevated, levees and alluvial plains adjacent to prior streams and floodways; local relief <1 m; slopes <0.5%; regularly inundated. Very deep (>1.5 m), hardsetting, sandy or loamy surfaced, massive red uniform or gradational earths (sandy clay loam subsoil) with common termitaria (Petrocalcic or Eutrophic Red Kandosol). Acacia aneura and Eucalyptus victrix low open woodland over Aristida holathera low tussock grassland.
  - 10a3** Prior streams, floodways and occasional seasonal swamps; local relief <1 m; slopes <0.5% on drainage floors, 0.5-1.0% at floodway margins; regularly inundated. Very deep (>1.5 m), hardsetting, loamy surfaced, massive red or brown gradational earths (sandy clay loam to light medium clay subsoil) with common termitaria, buried layers from 0.7-0.9 m (Eutrophic Red or Brown Kandosol; Eutrophic Red or Brown Dermosol). Acacia aneura and Eucalyptus victrix low open woodland over mixed low open tussock grassland.
  - 10a4** Young, indistinctly channelled, depositional sand sheets; local relief <1.2 m; slopes <1.5%; regularly inundated. Very deep (>1.5 m), soft to loose, red or brown siliceous sands (sand subsoil) (Stratic Rudosol). Aristida holathera low tussock grassland with isolated Eucalyptus victrix +/- Ventrigia viminalis and Atalaya hemiglauca.

**Example of Land Unit Descriptions**

Land unit	Landform	Landform description	Soil description	Vegetation description
18a3	Level sand plains	Level sand plains; local relief <2 m; slopes <0.5%. Very deep (>1.5 m), soft, firm or hardsetting, massive red earthy sands (sandy loam subsoil) (Regolithic Red-Orthic Tenosol). Acacia kempeana +/- Acacia aneura tall sparse shrubland over Triodia mid open hummock grassland.		

Map unit boundaries were derived using satellite imagery in association with digital elevation model, geological and topographic data. Landform, soil and vegetation field assessments conform to national standards and support mapping at a scale of 1:25 000. Final mapping is presented at a scale of 1:100 000.

When assessing specific areas within the mapping it is recommended a site inspection be undertaken to establish unmapped variation and confirm mapping accuracy on the ground.

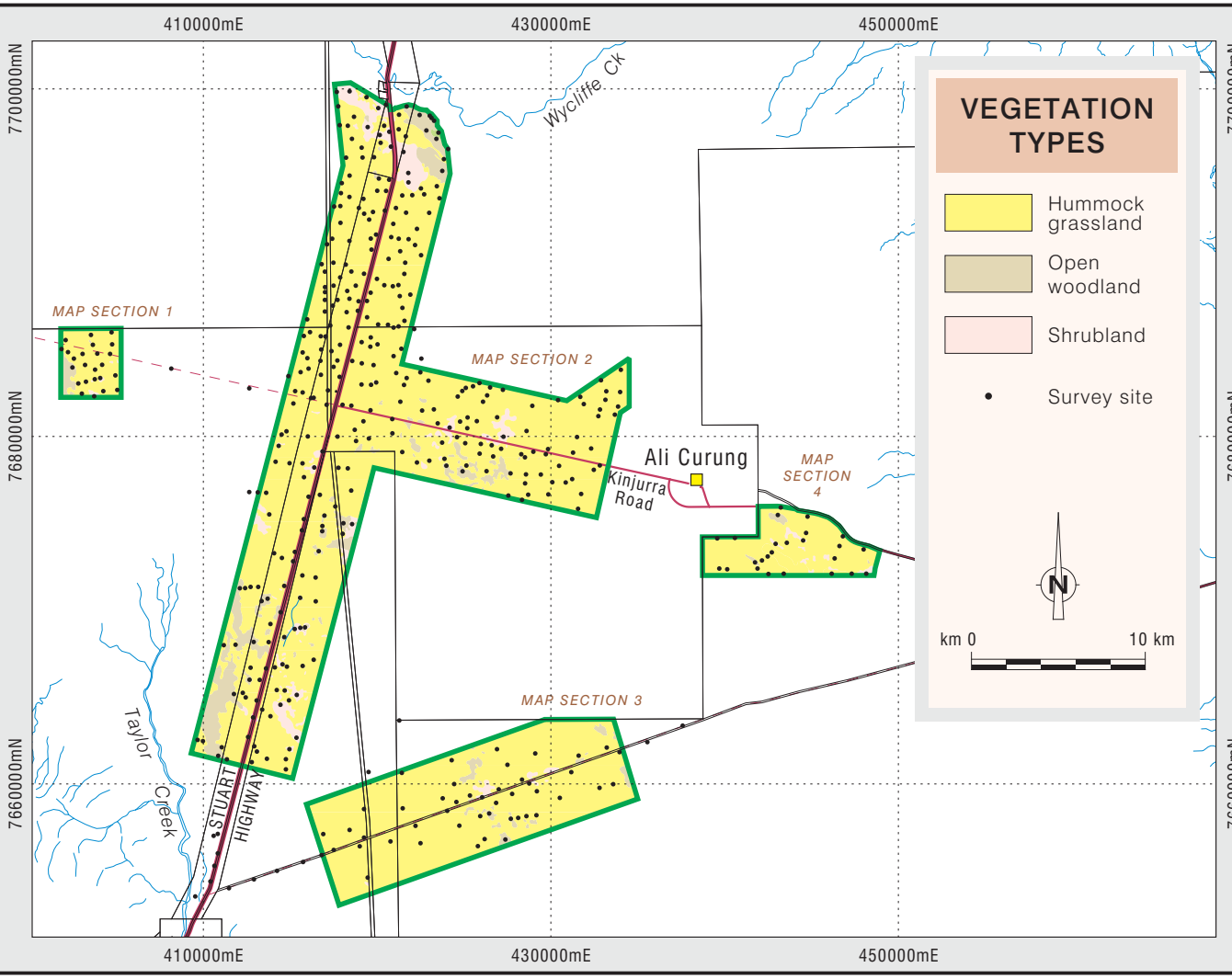
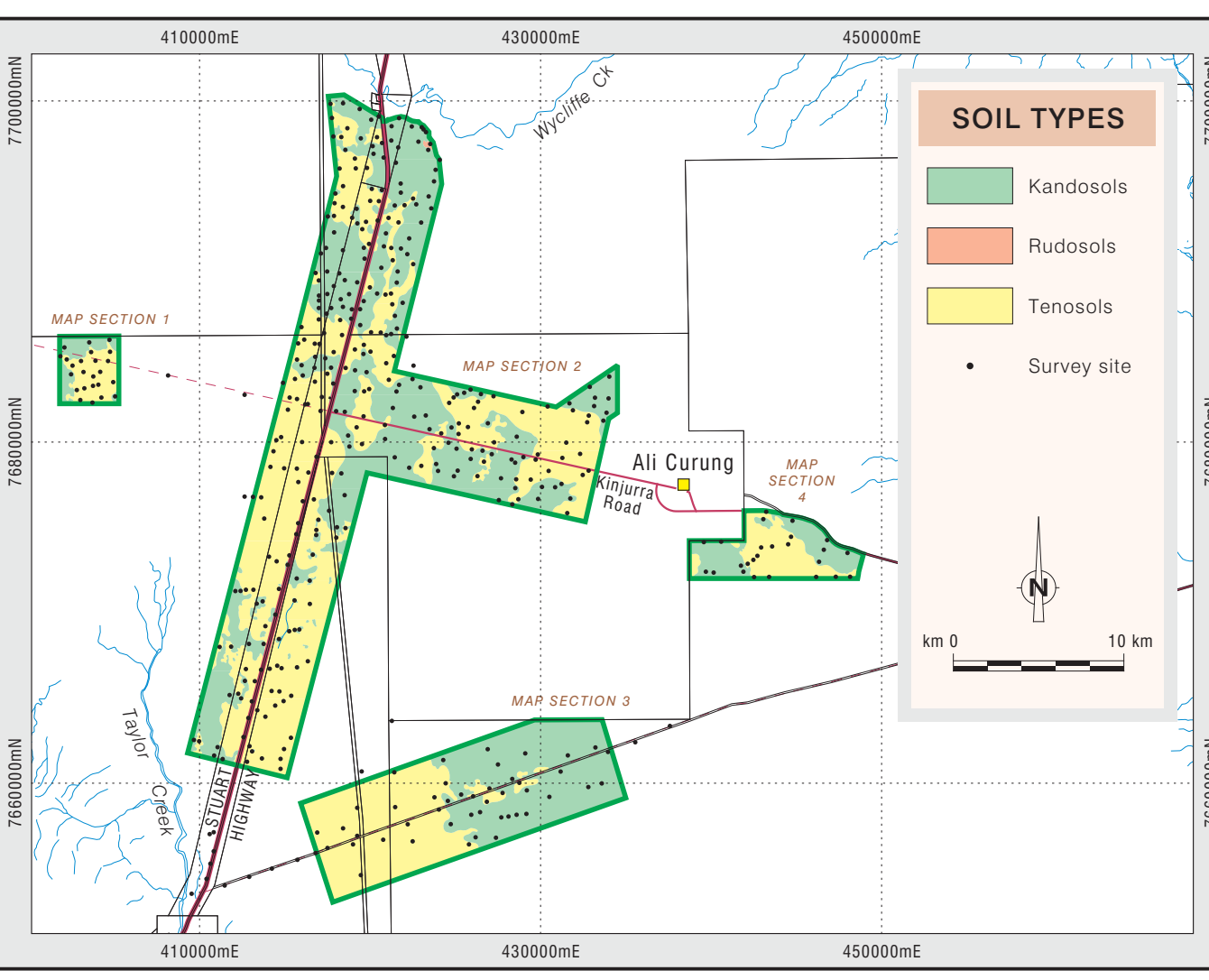
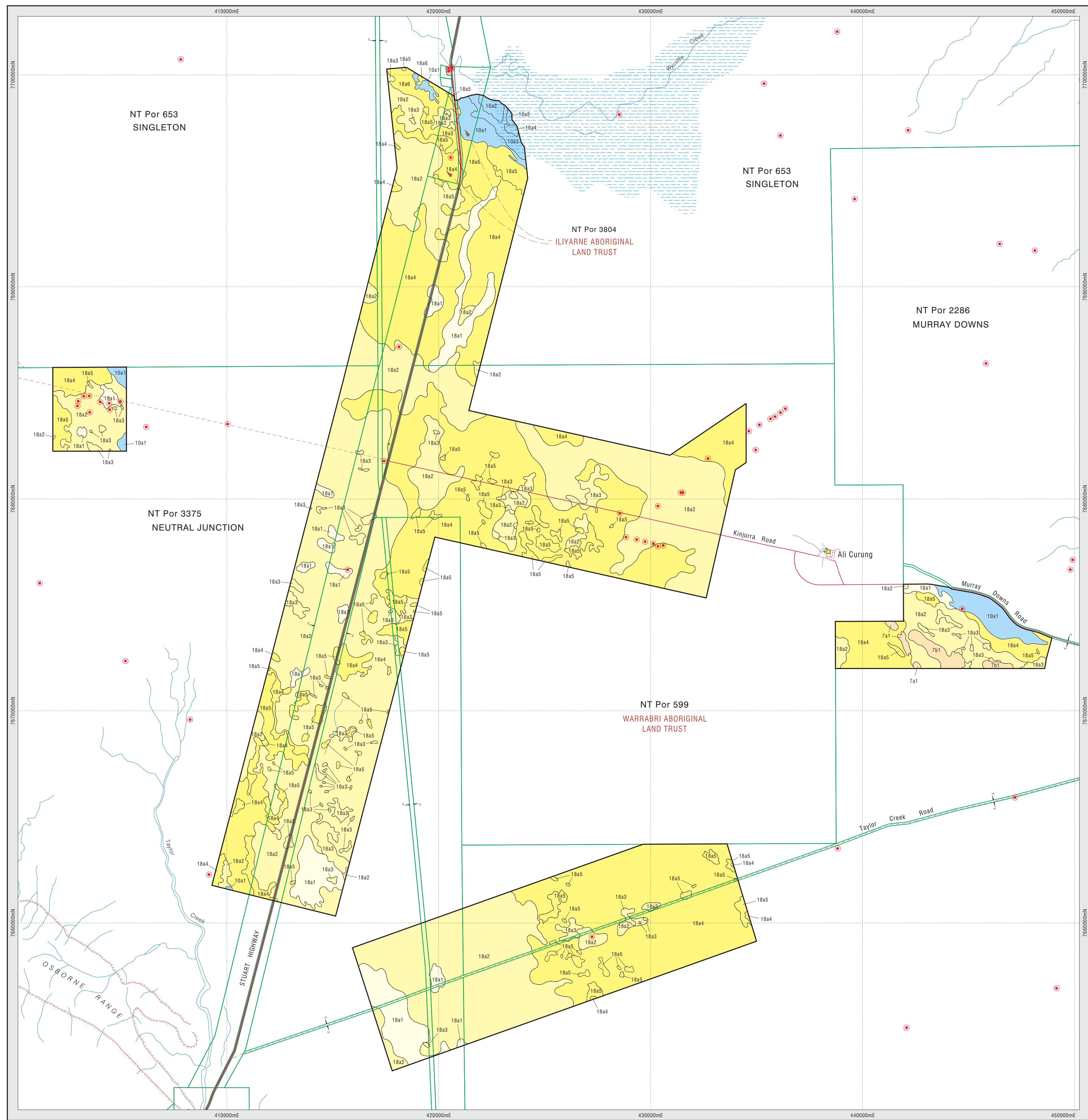
**BIBLIOGRAPHIC REFERENCE:**  
 Burgess J, McGrath N, Andrews K and Wright A (2016) Agricultural Land Suitability Series, Report 5. Soil and Land Suitability Assessment for Irrigated Agriculture in the Ali Curung Area, Western Davenport District. Technical Report 16/2016D. Department of Environment and Natural Resources, Northern Territory Government, Darwin, NT.

**TECHNICAL REFERENCES:**  
 National Committee on Soil and Terrain (2009) Australian Soil and Land Survey Field Handbook, 3rd Edition. CSIRO Publishing, Melbourne.  
 Isbell R F (2002) The Australian Soil Classification, Revised Edition. CSIRO Publishing, Melbourne.

Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003) Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6. Department of Environment and Heritage, Canberra.

## ALI CURUNG AREA MAP SERIES

Map	Map Title
1	Land resources of the Ali Curung Area
2	General land capability of the Ali Curung Area
3	Land suitability for irrigated field crops
4	Land suitability for irrigated hay and forage
5	Land suitability for irrigated evergreen tree crops
6	Land suitability for irrigated deciduous tree and vine crops
7	Land suitability for irrigated annual row crops
8	Land suitability for irrigated perennial row crops
9	Land suitability for irrigated row crops

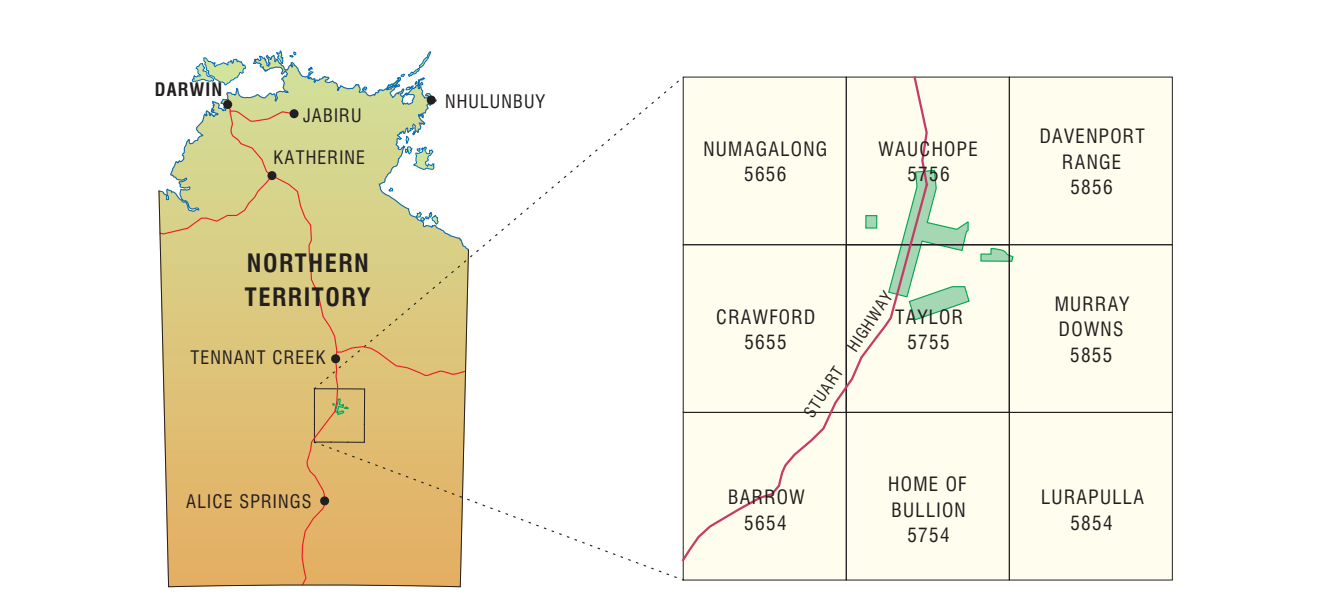


**GENERAL FEATURES**

Land unit boundary	Highway
Survey boundary	Minor road
Property boundary	Urban road
Aboriginal community	Local road / track
Water Bore	Subject to inundation
Ridge	Drainage line

Base Information Data Sources:  
 Department of Infrastructure, Planning and Logistics, Northern Territory of Australia  
 Geoscience Australia, Australian Government.

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



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This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)  
 Cartography by R. Lim  
 Spatial Data and Mapping, Water Resources Division  
 Department of Environment and Natural Resources  
 Northern Territory of Australia. November 2016.

Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53  
 Transverse Mercator Projection Horizontal Datum: GDA 94

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