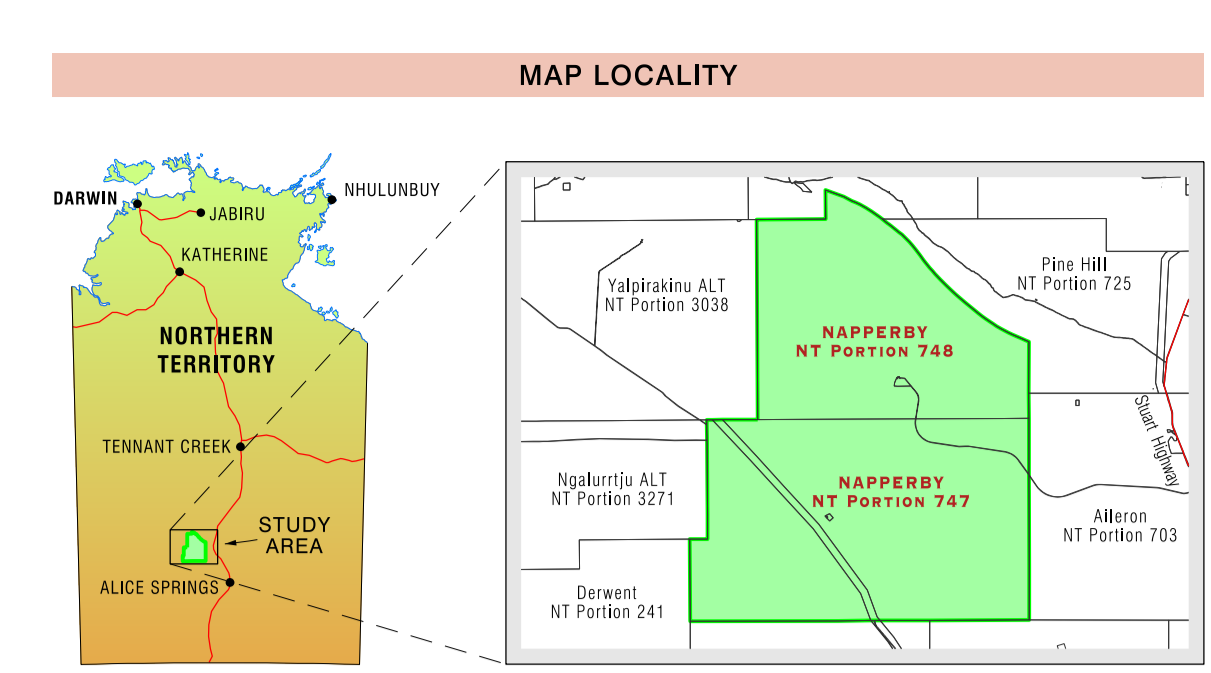


Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA), Zone 53. Transverse Mercator Projection. Horizontal Datum: GDA 94. Vertical Datum: AHD (metres).

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This map was produced on the Geospatial Data of Australia 1:50 000 (GDA 94) Department of Environment, Parks and Water Security Northern Territory Government



GENERAL FEATURES	
Water Bore	Murray Bore
Water Well	Sulphur Well
Property boundary	Mudflat
Main road: sealed	Tank
Main road: unsealed	Trough
Minor road: unsealed	Stock Yard
Local road: track	Drainage
Gas pipeline	Lake (non-perennial)
Water pipeline	Claypan
Fence	Lagoon / Waterhole
Pasture name	Spring / Soak
Major Community	Tower
Roadhouse	Relief Feature
Relief Feature	Survey Site
Pastoral homestead	Survey Site
Building	Range or Plain
Rail	Spot Height
Landing ground	Relief ridge
	Sand ridges

### LAND SYSTEM DESCRIPTIONS OF MOUNT RIDDOCK

Land System	Description
<b>MOUNTAINS</b>	
Devonport 10A	Rugged mountain ridges and shafts with steep slopes, drained by small watercourses. Slopes of red siltstone, quartzite and sandstone. Sparse cover of Hard Spineless and scattered low shrubs such as Hardy Grevillea.
Harts 16A	Steep sided mountain peaks and ridges dissected by narrow watercourses. Shallow coarse textured floozils. Sparse shrubs including Willetto Bush and Cassias over spinifex or Kangaroo grass.
<b>HILLS</b>	
Bond Springs 10C	Bold rocky hills and ridges, and prominent quartz reefs. Lower slopes have gentle grasses and scattered low shrubs. Steep slopes are covered by coarse textured floozils, with grey brown alluvial soils along creek lines. A sparse cover of Willetto Bush, Mulga and low shrubs over patches of Woodfordia, Mulga and Kerosene grasses. Tall and other forbs.
Hann 10E	Prominent rocky ridges with steep slopes and scattered low shrubs, and occasionally sandstone outcrops with low relief. Drainage pattern absent or very poorly developed. Patches of low textured floozils. Sparse shrubs including Willetto Bush. A very sparse cover of Hard Spineless and scattered low shrubs.
Napperby 10B	Low ranges, hills and outcrops, characterized by boulder stream slopes, bare hummocks and broken drainage development. Shallow, grey floozils overlie red rock outcrops. Sparse Willetto Bush with succ. Mulga, Blackwood, Bean Tree and Ghost Gum over patches of Woodfordia, Nettlebush, Cotton Grass, Kangaroo and Buck Wattle. Blue-bell Cassia and low shrubs with Curly Willetto grass are common on lower slopes.
<b>PLAINS</b>	
Emnogan 10E	Plains with low relief, drained by narrow stream channels. Some red outcrop, shaly loams. Drainage channels absent, floor sandy. Red sandy clay loams at the surface over light clays and often granite at depth. Open woodlands of groved Mulga with succ. Woodfordia, Willetto Bush and Blue-bell Cassia over patches of Woodfordia, Mulga and Kerosene grasses. Tall and other forbs.
Falanco 10A	Broad ridge crests of low relief, and plains at the foot of granite ranges. Line 10E, drainage channels absent, floor sandy. Red sandy clay loams at the surface over light clays and often granite at depth. Open woodlands of groved Mulga with succ. Woodfordia, Willetto Bush and Blue-bell Cassia over patches of Woodfordia, Mulga and Kerosene grasses. Tall and other forbs.
Falanco 10B	Broad valley floors with gentle relief and very gentle slopes, usually drained by shallow watercourses. Feature-contrast soils, intensively scolded in the upper reaches. Shallow coarse textured floozils overlie red sandstone and quartzite. Shallow red sandy loams overlying hard-setting reddish-brown sandy clays. Open shrub cover of Cotton Grass, Blackwood, Willetto Bush and Blue-bell Cassia. Hummock grasslands of Buck Spineless with scattered Red Mallee, Drainage line grasses, Mulga and low shrubs over patches of Woodfordia, Mulga and Kerosene grasses on deeper sandy loams. Picky Wattle or Dead Fern on crevices.
Reynolds 10F	Broken plains and valley floors drained by a dense network of small watercourses. Shallow, grey red earths, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Sandover 10C	Extensive shallow tracts extending beyond the floodplains of Line 10B onto broad alluvial plains of Unit 10A. Surfaces are hummocky with divergent drainage development. Deep red earths covered by red sandy loams overlying sandy clays. Occasional tanks at alluvial sand. Open woodlands of Mulga with scattered Willetto Bush and Whitebush over Mulga, Woodfordia, Desert Bluegrass, Cotton Grass and Curly Willetto grasses and Litterleaf Burr.
Tina 10A	Gently undulating plains with widely distributed circular or elongated closed gullies and shallow watercourses. Shallow, red calcareous soils, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Warburton 10D	Gentle slopes beneath Unit 2A, and broad low rises elsewhere. No surface drainage pattern. Shallow, grey red earths, consisting of light clay loams overlying sandy clays. Occasional tanks at alluvial sand. Open woodlands of Mulga with scattered Willetto Bush and Whitebush over Mulga, Woodfordia, Desert Bluegrass, Cotton Grass and Curly Willetto grasses and Litterleaf Burr.
Warburton 10E	Broad valley floors with gentle relief and very gentle slopes, drained by broad tributary watercourses without defined stream channels. Red earths, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Wilson 10A	Terrace and fans with gentle slopes flanking quartzite mountain ridges. Extensive terraces low developed along the Reynolds Range, dissected by large watercourses. Elsewhere currently active alluvial fans are traversed by small channels. Deep red earths, mainly sandy clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
<b>ALLUVIAL PLAINS</b>	
Buckley Park 10A	Extensive featureless alluvial plains, with a very slight dip draining to the south. Indistinct drainage depressions carry runoff from plateau range frontages or floodplains. Deep red earths, consisting of light clay loams overlying sandy clays at the surface, overlying light clays at depth. Dense shrublands of Mulga with occasional Willetto Bush and Blue-bell Cassia. Open woodlands of Mulga carry mulga annual grass associations with Willetto and Mulga grasses, and other forbs. Other areas are grass dominated.
Kanandra 10B	Sandy alluvial plains formed as fans where small watercourses flood out from the hills. Coarse textured floozils, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Sandover 10E	Sandy floodplains and broad bordering major stream channels originating from range country. Floodplains are typically narrow ridges in broad floodplains. Small streams, low flows and features over coarse granitic. Open Mulga, Willetto Bush, Whitebush and Blackwood over Blue-bell Cassia, Green-bell Cassia, Bean Tree and Turky Bush over Wire grass with Kerosene, Mulga and Woodfordia grasses.
Tina 10B	Alluvial plains featuring a dense array of small closed depressions or claypans. Several shallow drainage lines and the depressions are poorly defined in this area. Red earths, usually sandy clay loams over sandy clays, occur throughout the site. Coarse-textured clays are present in the depressions, occasionally with horizontal beds. Open woodlands of Mulga and Willetto Bush with corkwood and low shrubs over Mulga and Woodfordia grasses. Cotton Grass, Litterleaf Burr and Poppy Bush. The depressions support Nettlebush and Narcissus and other fringed by Ghost Gum or corkwood.
<b>SAND PLAINS</b>	
Amadeus 10E	Sandplains, often as features islands within Unit 1A or as more extensive areas interspersed with numerous small depressions and occasional low hummocks. Sandy soils, consisting of light clay loams overlying red sandstone and quartzite, with isolated corkwoods and scattered low shrubs. Papertank grasses in the small depressions and Red Mallee occurs on the low flats.
Buckley Park 10E	Extensive gently sloping sandplains, featureless other than small depressions where Unit 10A is exposed. No surface drainage pattern. Deep sandy red earths, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Singerton 10A	Extensive sandy sloping sandplains, featureless other than small depressions where Unit 10A is exposed. No surface drainage pattern. Deep sandy red earths, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
Tina 10C	Sandplains interspersed with small circular depressions up to 100 metres in diameter. Sandy soils, consisting of light clay loams overlying red sandstone and quartzite. Sparse shrubs including Willetto Bush and Cassia. Green-bell Cassia and Harlequin Elm Bush over Winged Chicks, Nettlebush, Scoparia and other small grasses.
<b>DUNE FIELDS</b>	
Amadeus 10C	Bands fringing the exposed western margins of Unit 1A, typically consisting of small, closely-spaced east-west dunes or crescentic dunes parallel to the lake ridges. Dunes are predominantly heavy sands on the dune with smaller textured soils in the low lying areas. The dunes support Red Mallee and isolated Whitebush, Supplejack or Dune Wattle over both Spinifex and Hard Spineless.
<b>DRAINAGE SYSTEMS</b>	
Sandover 10A	Narrow floodplains arising from erosional plains, drained by small creeks and depressions. Small semi-arid watercourses are a feature of these watercourses, e.g., long, Bean Tree and Kerosene Watercourses. Coarse textured brown alluvial soil, composed of deep acidic sandy loams. Coarse grey troughed profile. Woodlands of broadleaf with Mulga, Picky Wattle and Curly Willetto grasses. Silky Bromeliad, Desert Bluegrass, Golden Beard grass and occasionally Woodfordia.
<b>INLAND WETLANDS</b>	
Amadeus 10A	Salt flats with associated saline troughs and tributary tracks. Workedup saline clays. Shallow saline red siltstone-contrast soils occur along the tributary tracks and terraces. Gypsum soils occur on the higher slopes. The lower surfaces are bare of vegetation. Saltbush and Saltbush grow on the margins, with papertank and Mallee over GCM grass and tall-turf on the deeper gullies. The tributary tracks are fringed with papertank over perennial grasses.

**Example of Land System Description**  
 Map Unit: 10A  
 Land System: 10A  
 Land System Description: Rugged mountain peaks and ridges dissected by narrow watercourses. Shallow coarse textured floozils. Sparse shrubs including Willetto Bush and Cassias over spinifex or Kangaroo grass.  
 Soil Description: Red sandy clay loams overlying red sandstone and quartzite.

**Cartography by:**  
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 Northern Territory of Australia.  
 Map Reference: Map Napperby-Stn Land-Res 100, p63  
 Drawing Number: DEPW5 2022 041  
 March 2022

**General features data sources:**  
 Cadastre, roads, place names: Department of Infrastructure, Planning and Logistics, Northern Territory of Australia.  
 Pastoral Infrastructure: Department of Environment, Parks and Water Security, Northern Territory of Australia.  
 Hydro features: Commonwealth of Australia (Bureau of Meteorology) 2014  
 Spot heights: Geoscience Australia, 2007. Geodata topo 250K, Series 3.

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 Land Resource Information has been derived from aerial photograph interpretation and field data collection describing landform, soil and vegetation. Mapping has been collected at a nominal scale of between 1:100 000 and 1:250 000. Enlarging this map beyond this scale will not provide further detail and is not recommended.  
 Final mapping is presented at a scale of 1:100 000.

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

**Please Note:** This report is generally not available. Access requests should be directed to Arid Zone Research Institute Library, Alice Springs.  
**Bibliographic Reference:** Grant, R. (1983) Range Condition assessment report: Napperby Station. Department of Primary Production, Alice Springs, Northern Territory.  
 Email: arid.library@nt.gov.au



# LAND RESOURCES OF NAPPERBY STATION