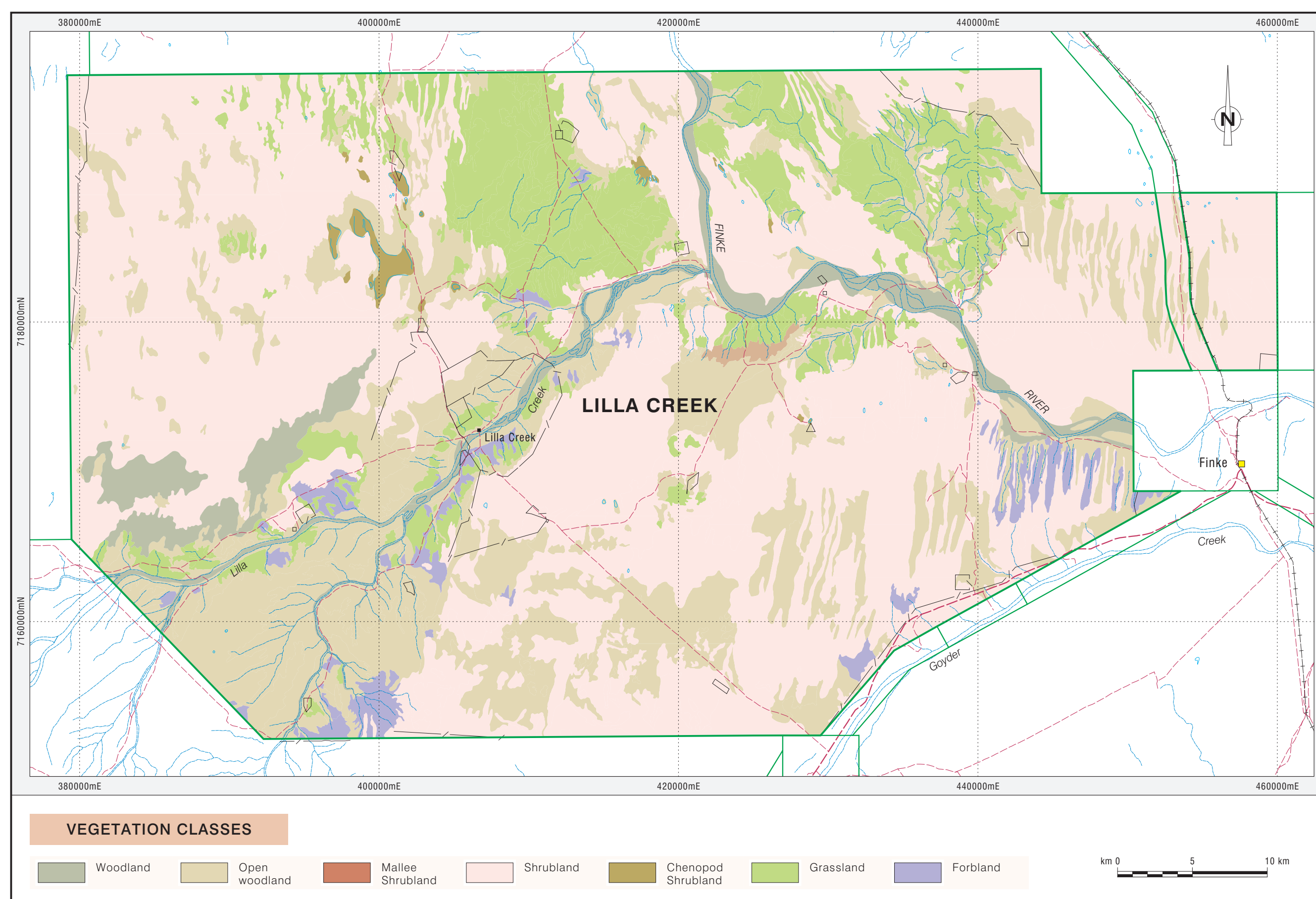
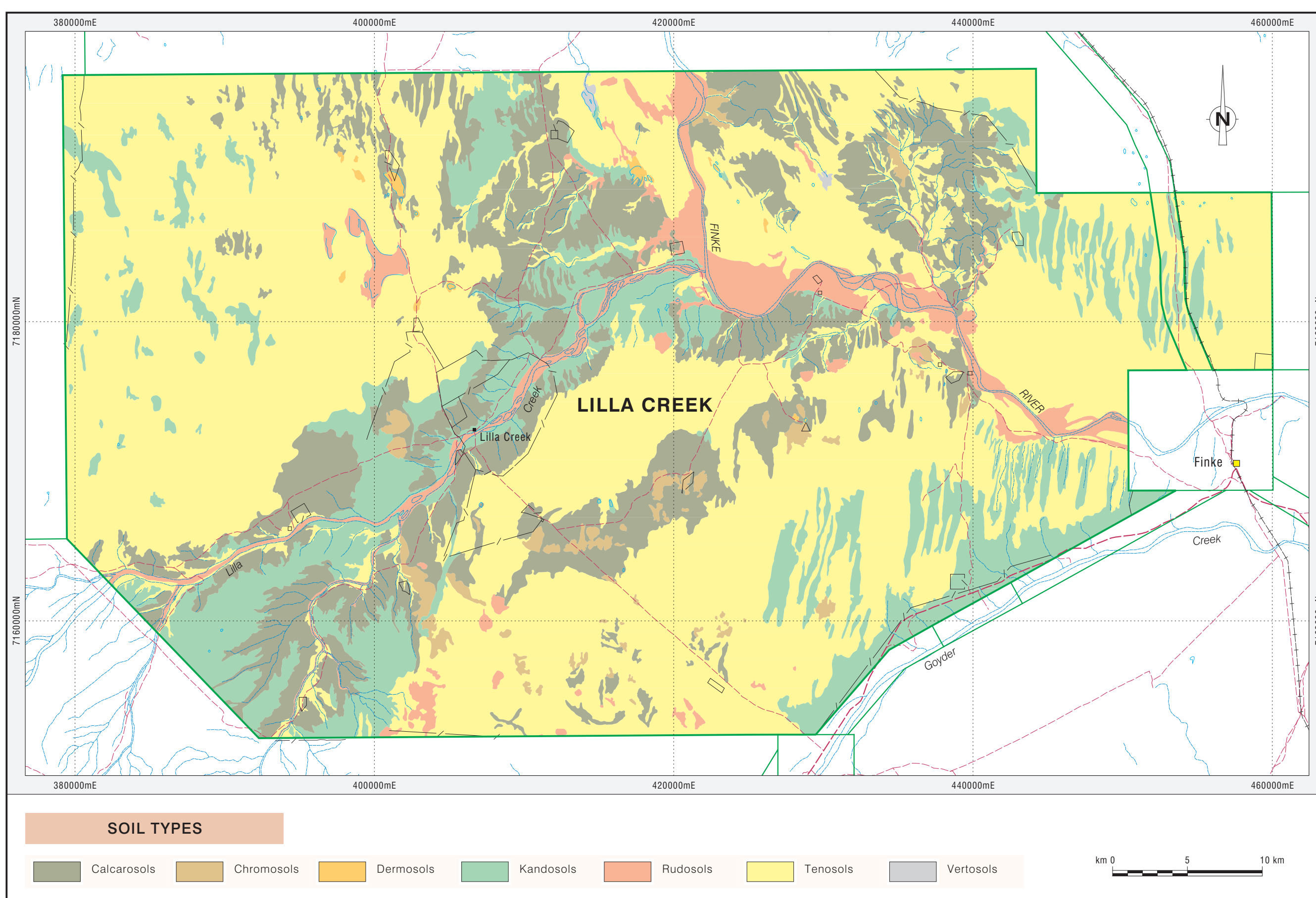
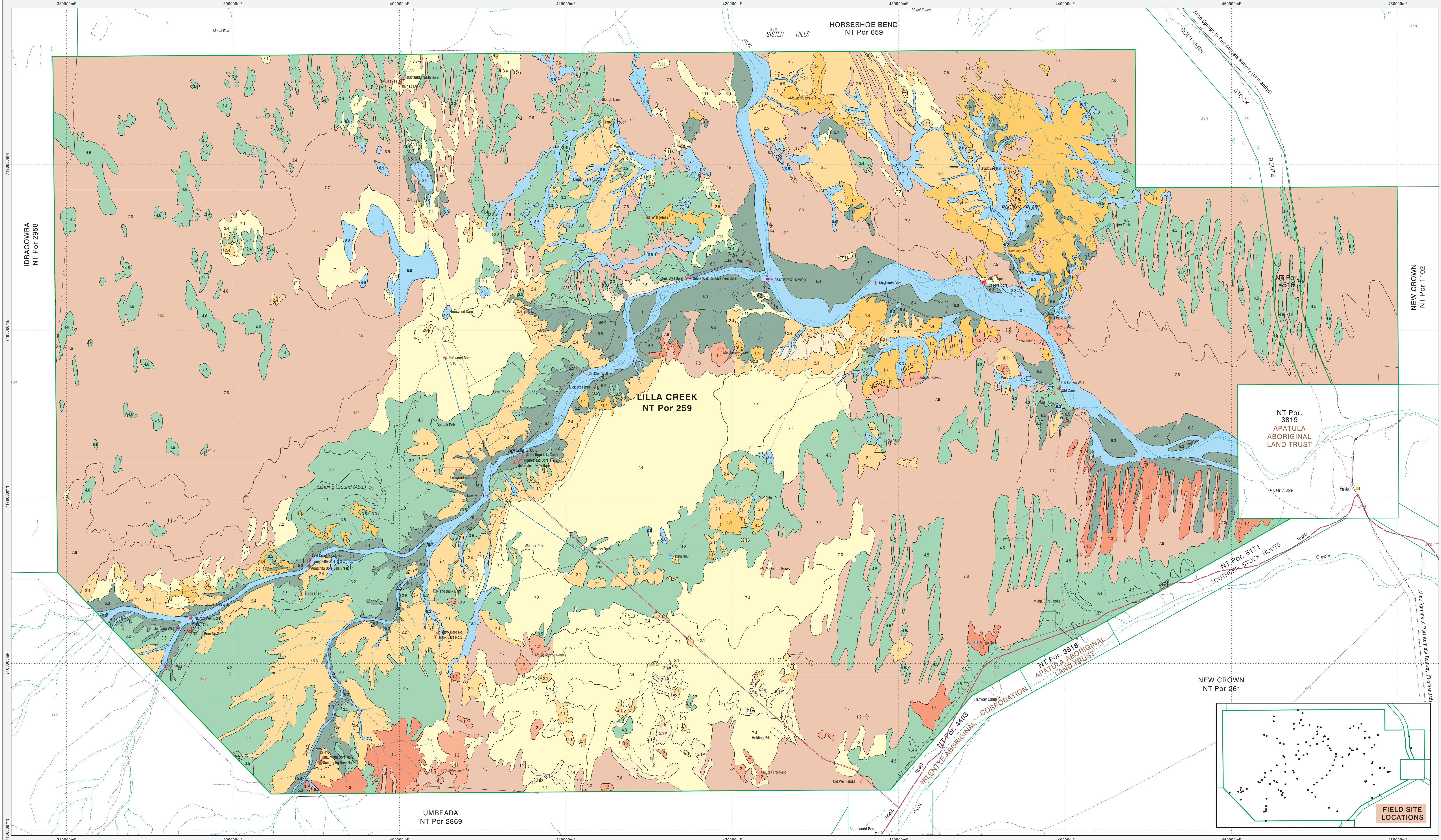
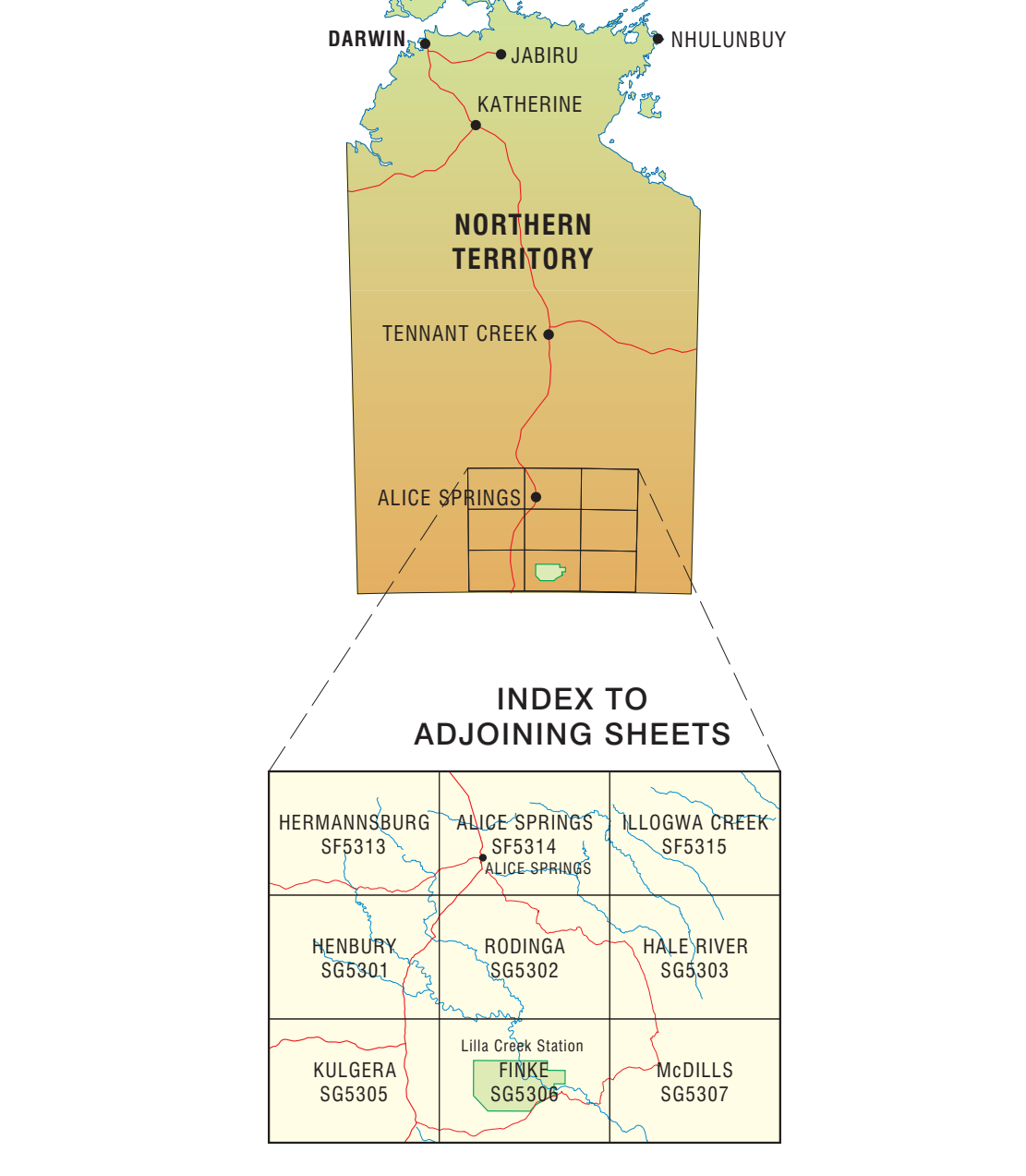


LAND UNIT DESCRIPTIONS	
<b>PLATEAUX</b>	
1.2	Meas with steep slopes, rock outcrop of sandstone, surface gravel and stone 70-80% of calcareous and ferric. Red earths (Red Kandosols), <i>Enneapogon polyphyllus</i> , <i>Acacia aneura</i> tall sparse shrubland with isolated trees.
1.3	Sandstone breakaways, long, low narrow ridges of sandstone outcrop, surface gravel 50-70% of calcareous and ferric. Red earths (Red Kandosols), <i>Enneapogon polyphyllus</i> , <i>Acacia aneura</i> tall sparse shrubland with isolated trees.
<b>SIDE SLOPES</b>	
1.1	Low hills with moderately inclined hillslopes and steep breakaways, surface gravel 30-50% of quartzite and ferrite. Red-brown earths (Hypocalic Calcarosols), <i>Enneapogon polyphyllus</i> , <i>Acacia aneura</i> tall sparse shrubland with isolated trees and sparse shrubs.
1.4	Low gravelly hills, slopes 10-15%, surface gravel 20-40% of quartzite and sandstone. Calcareous red earths (Hypocalic Calcarosols), <i>Enneapogon polyphyllus</i> , <i>Enneapogon avenaceus</i> , low open grassland.
<b>RISES</b>	
2.1	Low gravelly hills with extensive footslopes, slopes 10-15%, surface gravel 20-30% of quartzite and sandstone. Red-brown earths (Red Chromosols), <i>Acacia aneura</i> tall sparse shrubland.
2.2	Undulating to moderately steep sloping rises, slopes 5-11%, surface gravel 20-30% of quartz and siltstone. Calcareous red earths (Supracalcic Calcarosols), <i>Acacia aneura</i> low open woodland.
2.3	Rolling rises, slopes 5-8%, Cryptogam surface with surface gravel 50-75% of calcareous and siltstone. Calcareous red earths (Supracalcic Calcarosols), <i>Eucalyptus sociata</i> tall sparse mallee shrubland with very sparse shrubs.
2.4	Undulating gravelly rises, slopes 3-5%, surface gravel 5-10% of quartz. Red earths (Supracalcic Calcarosols), <i>Acacia aneura</i> , <i>Enneapogon polyphyllus</i> , low open grassland with isolated shrubs.
2.5	Undulating gravelly rises, slopes 2-5%, surface gravel and stone 10-15%. Calcareous red earths (Hypocalic Calcarosols), <i>Enneapogon avenaceus</i> , low grassland.
2.7	Undulating rises, steep, narrow crests, slopes 2-12%, surface gravel 40-60% of ironstone and quartzite. Desert heath (Red Chromosols), <i>Aristida contorta</i> , <i>Enneapogon avenaceus</i> , <i>Sporobolus actinotriaxus</i> , low open grassland with isolated mixed shrubs.
<b>LOW HILLS</b>	
2.1#	Low rises with sandstone, 20-30% surface gravel and stone of ferrite. Red-brown earths (Red Chromosols), <i>Acacia aneura</i> , tall sparse shrubland.
2.6	Undulating rises, slopes 5%, surface gravel 30-40% ironstone. Red earths (Red Kandosols), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> tall sparse shrubland.
3.1	Gently sloping rises, slopes 1-3%, Red earths (Supracalcic Calcarosols), <i>Aristida contorta</i> low grassland with isolated trees.
<b>PLAINS</b>	
3.2	Gently undulating plains, slopes 2%, surface gravel 10% quartzite. Red earths (Red Kandosols), <i>Acacia aneura</i> mid high open woodland.
3.3	Gently undulating plains, slopes 1-5%, surface gravel 2% quartzite. Calcareous red earths (Hypocalic Calcarosols), <i>Enneapogon avenaceus</i> , mid high grassland with isolated mixed trees and shrubs.
3.4	Level plains with extremely low relief, slopes up to 1%, surface gravel 10-15% quartz. Calcareous red earths (Calic Calcarosols), <i>Enneapogon polyphyllus</i> low open grassland with isolated shrubs.
3.5	Gently sloping plains with gravelly rises, slopes up to 1%, surface gravel 5-10% quartz. Calcareous red earths (Hypocalic Calcarosols), <i>Sclerolaena coenoclea</i> tall chenopod shrubland with isolated shrubs.
4.1	Level plains with extremely low relief, slopes up to 1%, surface gravel 2% quartz. Red clays (Calic Calcarosols), <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Acacia retropetala</i> mid high sparse shrubland.
4.2	Level plains with negligible slope and extremely low relief. Red earths (Red Kandosols), <i>Acacia aneura</i> low open woodland.
4.3	Level plains and sand dunes, slopes up to 1% with gravelly rises. Red earths (Hypocalic Calcarosols), <i>Acacia aneura</i> , tall sparse shrubland over mixed forbs and annual grasses.
4.4	Gently sloping plains, formed on relict alluvial plains. Red earths (Red Kandosols), <i>Acacia aneura</i> tall sparse shrubland over grasses and forbs, groves of emergent trees and mixed grassland.
4.5	Level plains, slopes 1%, often occurs as broad swales in dune fields. Red earths (Red Kandosols), <i>Acacia aneura</i> low open woodland.
4.6	Gently undulating plains, slopes 2%, hardsetting surfaces, occurs as broad swales or open plains associated with dune fields. Red earths (Red Kandosols), <i>Acacia aneura</i> low open woodland.
<b>ALLUVIAL PLAINS</b>	
5.1	Gently undulating alluvial plains, slopes up to 2%. Earthy sands (Red Orthic Tenosols), <i>Acacia aneura</i> mid high open woodland.
5.2	Gently undulating alluvial plains, slopes up to 2%, hardsetting surfaces. Red earths (Red Kandosols), <i>Acacia aneura</i> mid high open woodland.
5.3	Gently sloping alluvial plains, hardsetting surfaces. Earthy sands (Red Orthic Tenosols), <i>Acacia aneura</i> , <i>Melaleuca leucocarpa</i> low open woodland.
5.4	Gently undulating alluvial plains. Red earths (Red Kandosols), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Acacia ligulata</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> tall sparse shrubland, drainage lines support a mixture of shrubs and forbs.
6.1	Alluvial floodplains of Lilla Creek, slopes 1%. Red earths (Red Kandosols), <i>Atalaya hemigalca</i> , <i>Acacia eriopetala</i> mid high open woodland.
6.2	Relict alluvial floodplains, gently undulating, no active drainage lines. Earthy sands (Red Orthic Tenosols), <i>Acacia victoriae</i> , <i>Acacia sesalifolia</i> tall sparse shrubland over an open formland.
6.3	Gently undulating floodplains of the Finke River. Earthy sands (Red Orthic Tenosols), <i>Acacia victoriae</i> low open woodland.
6.4	Gently undulating floodplains to low dune fields. Earthy sands (Stratic Rudosols), <i>Acacia victoriae</i> , <i>Pinnaea prociliaris</i> tall sparse shrubland with isolated trees.
6.5	Scalloped floodplains overlain with wind blown sand. Alluvial soils (Hypocalic Calcarosols), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , tall sparse shrubland over mixed formland.
<b>SAND PLAINS</b>	
7.1	Gently undulating plains with occasional dunes, slopes gently inclined, 2%. Earthy sands (Red Orthic Tenosols), <i>Acacia aneura</i> , <i>Melaleuca leucocarpa</i> low open woodland.
7.10	Undulating sandplains overlying foamy plains. Earthy sands (Red Orthic Tenosols), <i>Dodonaea viscosa</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> tall sparse shrubland.
7.11	Low lying areas with irregular drainage depressions, sand ridges relief 3m; slopes of 1.5%. Alluvial soils (Stratic Rudosols), <i>Acacia eriopetala</i> mid high open woodland.
7.2	Level sand plains, with hardsetting surfaces. Earthy sands (Red Orthic Tenosols), <i>Acacia aneura</i> , <i>Crotalaria contorta</i> low open woodland.
7.3	Level sand plains, with outcrops of stony calcareous and ironstone gravels. Red earths (Red Orthic Tenosols), <i>Acacia aneura</i> mid high open woodland.
7.4	Level sand plains with hardsetting surfaces. Earthy sands (Red Orthic Tenosols), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , tall sparse shrubland.
<b>DUNE FIELDS</b>	
7.5	Parabolic dune fields. Earthy sands (Red Orthic Tenosols), <i>Dodonaea viscosa</i> , <i>Grevillea stenobotrys</i> tall sparse shrubland, sand dunes with trees across the slopes and swales.
7.6	Longitudinal dune fields, slopes 10%. Red earths (Red Kandosols), <i>Aristida holathera</i> , <i>Enneapogon avenaceus</i> mid high grassland swales whilst the dunes support isolated shrubs and sparse grasses.
7.7	Longitudinal dune fields, slopes 7%. Earthy sands (Red Orthic Tenosols), <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Grevillea juncea</i> , <i>Grevillea stenobotrys</i> tall sparse shrubland.
7.8	Longitudinal dune fields, slopes 12%, hardsetting surfaces. Red earths (Red Orthic Tenosols), <i>Acacia kempeana</i> tall sparse shrubland with isolated trees.
7.9	Low rolling dune fields, relief of 5m, slopes 10%. Earthy sands (Red Orthic Tenosols), <i>Acacia aneura</i> mid high open woodland.
<b>DRAINAGE SYSTEMS</b>	
8.1	Floodplains and channels of Finke River. Alluvial soils (Stratic Rudosols), <i>Eucalyptus coolabah</i> subsp. <i>arida</i> mid high woodland.
8.2	Sandy stream channels and banks. Alluvial soils (Stratic Rudosols), <i>Eucalyptus camaldulensis</i> tall woodland.
8.3	Shallow ephemeral stream channels draining gravelly rises and hills. Earthy sands (Red Orthic Tenosols), <i>Acacia murayana</i> low open woodland.
8.4	Broad sandplain drainage depressions. Red earths (Red Kandosols), <i>Atalaya hemigalca</i> mid high open woodland.
8.5	Alluvial plains with numerous incipient stream channels forming a locally braided pattern. Earthy sands (Red Orthic Tenosols), mixed spp., mid high grassland with forb spp. and isolated shrubs.
8.6	Closed drainage depressions, slopes 0-5%, hardsetting surfaces. Red earths (Red Kandosols), <i>Eucalyptus coolabah</i> subsp. <i>arida</i> mid high open woodland.
8.7	Closed drainage depressions, slopes 1%, hardsetting surfaces. Red clays (Red Vertosols), <i>Eucalyptus coolabah</i> subsp. <i>arida</i> mid high open woodland.
8.8	Closed drainage depressions containing gypsum, ephemeral plays with hardsetting surfaces and saline crust. Red-brown earths (Hypocalic Rudosols), <i>Halimolobos parviflora</i> , <i>Atriplex holocarpa</i> mid high sparse chenopod shrubland, the large clay pan supports no vegetation.
8.9	Closed drainage depressions, ephemeral claypan with hardsetting surfaces. Red clays (Red Dermosols), <i>Halimolobos parviflora</i> , <i>Atriplex holocarpa</i> mid high sparse chenopod shrubland.

Example of Land Unit Descriptions	
Rises	Soil description
2.4	Undulating gravelly rises, slopes 3-5%, surface gravel 5-10% of quartz. Red earths (Supracalcic Calcarosols), <i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> low open grassland with isolated shrubs.
	Land unit: vegetation description

MAP LOCALITY and 1:250 000 MAP SHEET INDEX



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

This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

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**BIBLIOGRAPHIC REFERENCE:**  
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Land resource information has been derived from aerial photograph interpretation and field data describing landform, soil and vegetation. Mapping has been collected according to the national standards and prepared at a scale of 1:100 000. Enlarging this map beyond this scale will not provide further detail.

A site inspection should always accompany mapping for specific areas.

**NORTHERN TERRITORY GOVERNMENT**

**LAND RESOURCES of LILLA CREEK STATION**

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Updated by R. Lim, Geospatial Services, Water Resources, Department of Environment and Natural Resources, May 2019.

Map Reference: DENR2019088 Lilla-Creek-Sin-Land-Resources\_map

**BASE INFORMATION DATA SOURCES:**  
 Water Bore, Water Bore Abd.  
 Department of Infrastructure, Planning and Logistics, NT of Australia.  
 Geoscience Australia, Australian Government.