

Slopes

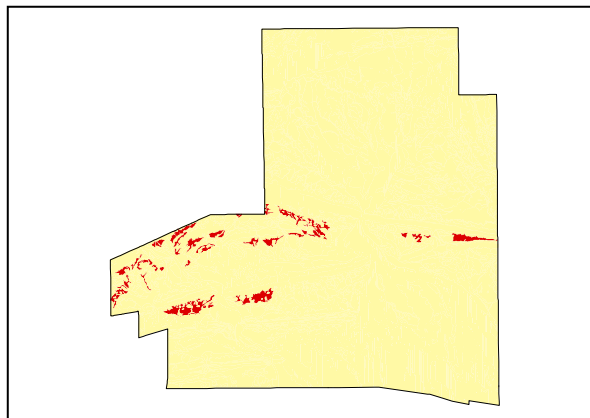
LAND UNIT 3.14**Lower Gravelly Calcrete Wash Slopes**

DESCRIPTION: Lower (1-5%) gravelly calcrete wash slope with Mallee over Giant Grey Spinifex and sparse annual and perennial grasses.

SITES: 065, 088, 090



Distribution of land unit.



Area = 6.12 km², 1.86% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	5
RELIEF (m)	5
SOIL DEPTH (m)	0.25
SURFACE CONDITION	Hard setting
DEPTH TO SUBSTRATE (m)	0.25
REACTION TREND (pH)	9.0
OUTCROP (%)	20
RUNOFF	Moderately rapid
PERMEABILITY	Slowly permeable
DRAINAGE	Poorly drained
SALINITY (µs/cm)	366 to 509

DEVELOPMENT RISKS	
EROSION	Moderate
ROCK FALL	None
SHEET FLOODING	None
INUNDATION	None
SALINITY	Moderate
ALKALINITY	High
ACIDITY	None

CAPABILITY CLASS					
Formed Roads	Shallow excavations	Septic Disposal	Horticulture	Building Foundations	Landscaping
Fair	Very Poor	Very Poor	Very Poor	Fair	Very Poor

Slopes

TECHNICAL DETAILS**LAND UNIT 3.14**

DESCRIPTION: Lower (1-5%) gravelly calcrete colluvial wash slope with Mallee over Giant Grey Spinifex and sparse annual and perennial grasses.

GEOLOGY: Quaternary soils and calcareous concretions derived from the nearby Late Proterozoic Gillen Member Dolomite hills, ranges and rises.

LANDFORM: The gently inclined slopes of this landform generally have slopes to 5% with a maximum relief to 10m above the surrounding lower lying areas. Clay forms about 30-35% of the soil fraction that would restrict permeability and allow moderate drainage. Relatively low angle slopes would enable moderate runoff. Where the surface structure has been disturbed, erosional channelling has resulted to substrate. In some parts, erosional channels have broken slightly weathered substrate.

SOIL: Example from **Site 065**
MGA. Coordinates: 7375802mN, 378944mE.

CLASSIFICATION: Red Calcareous Soil. Calcarosol - CA, CV, DZ, IC, B, F, M, M, U

SURFACE: 10% 60-200mm subrounded calcrete cobbles. 10% 20-60mm subrounded to subangular coarse gravelly calcrete fragments.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.15	A1k	Clay loam (CL)	9.0	366.0	Dark red (2.5YR3/6). 2% 2-6mm subangular fine gravelly calcrete fragments. Apedal structure with strong coherence when moist. Moderate effervescence.
0.15 - 0.25	A2k	Clay loam (CL)	9.0	509.0	Dark reddish brown (5YR3/4). 10% 2-6mm subangular fine gravelly calcrete fragments. Apedal structure with strong coherence when moist. Very effervescent.

VEGETATION: **Site 64** (Albrecht, D. & Pitts, B. 1999).

UPPER STRATUM - Isolated mallee trees	
Dominant species	Limestone Mallee.
Other species	Bloodwood, Beefwood, Mulga.
MID STRATUM - Isolated shrubs	
Dominant species	<i>Acacia bivenosa</i> .
Other species	Rock Fuchsia Bush, Silver Cassia, Dense Cassia, Dead Finish, Pale-leaf Mistletoe, Dolomite Fuchsia Bush, Tall Saltbush, Witchetty Bush, Wire-leaf Mistletoe, Wild Orange, Native Fuchsia, Long-leaf Corkwood.
LOWER STRATUM - Open hummock grassland	
Dominant species	Giant Grey Spinifex, Buffel Grass
Other species	Dwarf Lantern Flower, Wild Hops, <i>Euphorbia centralis</i> , <i>Indigofera A86365 Macdonnell</i> Ranges, Silver Indigo, Green Peppergrass, Velvet Hibiscus, Sand Spurge, Limestone Pussycats tails, Silver Tails, <i>Scaevola glabrata</i> , Silver Sida, Downy Thread-petal &/or Narrow Thread-petal, Hill Sunray, Limestone Grass, Caustic Weed, <i>Haloragis uncatipila</i> , <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Orange Spade Flower, Flat-leaved Mistletoe, Butterfly Bush, Apple Bush, Yellow Tails, Crimson Foxtail, Buck Bush, <i>Senna artemisioides subsp. alicia</i> , <i>Sida A90679</i> Limestone, Potato Bush, Wild Tomato, Supplejack, <i>Zygophyllum tesquorum</i> , Ruby Saltbush, Plumbush, <i>Streptoglossa decurrens</i> .

(see Appendix 3 for botanical names)