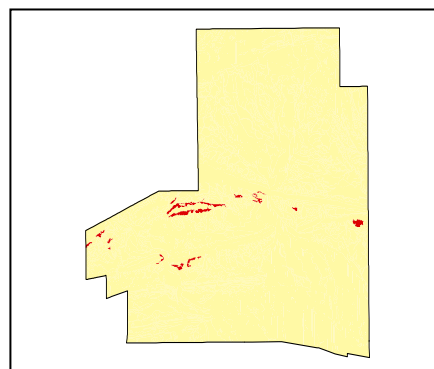


Slopes

LAND UNIT 3.11**Mid Gravelly Calcrete Wash Slope**

DESCRIPTION: Mid (5-10%) gravelly calcrete wash slope with Mallee trees over Giant Grey Spinifex.
SITES: 087, 090

Distribution of land unit.



Area = 2.51 km², 0.76% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	10
RELIEF (m)	12
SOIL DEPTH (m)	0.25
SURFACE CONDITION	Hard setting. Cryptogam crusting in some parts.
DEPTH TO SUBSTRATE (m)	0.25
REACTION TREND (pH)	9.5
OUTCROP (%)	30
RUNOFF	Rapid
PERMEABILITY	Slowly permeable
DRAINAGE	Imperfectly drained
SALINITY (µs/cm)	96.3 to 104.3

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

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

Slopes

TECHNICAL DETAILS**LAND UNIT 3.11**

DESCRIPTION: Mid (5-10%) gravelly calcrete colluvial wash slope with Mallee trees over Giant Grey Spinifex.

GEOLOGY: Late Proterozoic Gillen Member Dolomite substrate with calcrete concretions forming loose surface material.

LANDFORM: The gently inclined slopes of this landform generally have slopes to 10% with a relief to 12m above the surrounding lower lying areas. The clay content of 10-20% in the soil would enable rapid runoff with slow permeability and poor drainage. Drainage patterns are formed in areas lower in coarse fragment distribution and some areas, where the surface has been disturbed; erosional channels in the dolomite substrate have formed.

SOIL: Example from Site 090
MGA. Coordinates. 7374894mN, 378531mE

CLASSIFICATION: Grey-brown Calcareous Soil. Calcarosol - CA, FB, CZ, IC, B, G, L, U

SURFACE: 10% 6-20mm subrounded medium gravelly calcareous fragments. 5% 20-60mm subrounded coarse gravelly calcareous fragments. About 2% coarse fragments have a dolomitic core with a calcareous surface coating. The surface coating is very effervescent.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{s/cm}$)	OTHER DETAILS
0.00 - 0.10	A11k	Sandy loam (SL)(F)	9.5	104.3	Brown (7.5YR4/2). 20% 2-6mm fine gravelly subrounded to rounded calcareous nodules. 10% 6-20mm medium gravelly subrounded calcareous nodules and dolomitic fragments. Loose apedal structure with the coarser fraction being quartzitic in character. Strongly effervescent.
0.10 - 0.25	A12k	Sandy loam (SL)(F)	9.5	96.3	Brown (7.5YR4/2). 10% 6-20mm medium gravelly subrounded calcareous fragments and 20% 2-6mm fine subrounded gravelly calcareous fragments. Loose apedal incoherent structure with the coarser fraction being quartzitic in character. Strongly effervescent.

VEGETATION: Site 65 (Albrecht, D. & Pitts, B. 1999).

UPPER STRATUM - Isolated mallee trees	
Dominant species	Limestone Mallee.
Other species	
MID STRATUM - Isolated shrubs	
Dominant species	
Other species	Witchetty Bush, Desert Cassia.
LOWER STRATUM - Open hummock grassland	
Dominant species	Giant Grey Spinifex.
Other species	Silver Sida, Sida A90679 Limestone, Box Mistletoe, Wild Hops, Green Peppergrass, Buffel Grass, Limestone Grass, Crimson Foxtail, Buck Bush, Potato Bush, Ruby Saltbush, Tall Copper Burr, Western Copper Burr, Pale-leaf Mistletoe, Apple Bush, Yellow Tails, Tall Saltbush, Tar Vine & Yipa, Pitted Lovegrass, Purple Plumegrass.

(see Appendix 3 for botanical names)