

Mountains, Hills and Ranges

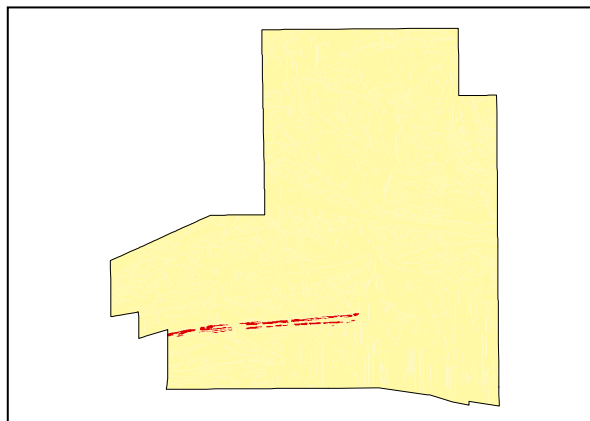
LAND UNIT 1.16**Arumbera Sandstone Ranges**

DESCRIPTION: Ranges and Hills of the Arumbera Sandstone with Rock Fuchsia Bush over annual and perennial grasses.

SITE: 130



Distribution of land unit.



Area = 1.83 km², 0.56% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	27
RELIEF (m)	100
SOIL DEPTH (m)	0.00 to 0.05
SURFACE CONDITION	Loose
DEPTH to SUBSTRATE (m)	0.05
REACTION TREND (pH)	6.0
OUTCROP (%)	95
RUNOFF	Very rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Moderately well drained
SALINITY (µs/cm)	12.5

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

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

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TECHNICAL DETAILS**LAND UNIT 1.16**

DESCRIPTION: Rugged Ranges and steep outcrops of Arumbera Sandstone with Rock Fuchsia Bush over annual and perennial grasses.

GEOLOGY: Late Proterozoic to Early Cambrian. Fossiliferous in part with interbedding of siltstone in some areas.

LANDFORM: The steep strike ridge hills of the Arumbera Sandstone form a broken range, about 400m to 500m wide, that trends generally east-west. Jointing and fractures within the unit enable moderately rapid permeability and drainage. Relief of up to 100m and slopes of about 27% allow rapid runoff. Broad (approx. 300m wide) gullies transect the sandstone in a north-south direction giving range a broken / discontinuous appearance.

SOIL: Example from Site 130.
MGA. Coords: 7376947mN, 376547mE

CLASSIFICATION: Lithosol. Rudosol - RU, CY, CZ, AR, H, L, T

SURFACE: 20% >2.0m subrounded tabular large boulders of sandstone and 40% 200-600mm subangular tabular stony sandstone fragments. Minimal soil formation on slopes whilst the relatively flat crests of the ranges had a broad, very shallow (<0.10m) spread of soil.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.05	A1	Sandy loam (SL)	6.0	12.5	Dark reddish brown (2.5YR3/4) 30% 2-6mm subangular tabular fine gravelly quartz. 10% 6-20mm subangular tabular medium gravelly sandstone fragments.

VEGETATION: Site 180 (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Usually absent	
Dominant species	
Other species	
MID STRATUM - Shrubland	
Dominant species	Rock Fuchsia Bush, <i>Senna artemisioides subsp. alicia</i> ,
Other species	Mulga, Ruby Saltbush, Native Fuchsia, Silver Cassia, Blunt-leaf Cassia,
LOWER STRATUM - Tussock grassland	
Dominant species	Buffel Grass
Other species	Woolly Cloak Fern, Rock Fern, Cotton Panic Grass, Woollyoat Grass, Dwarf Lantern Flower, Boggabri, Caustic Weed, Tropical Speedwell, Orange Spade Flower, <i>Maireana integra</i> , Hairy Mulla Mulla, Tall Saltbush, Fire Sida, Wild Tomato, <i>Tephrosia supina</i> , Bindieye, Tar Vine & Yipa, Desert Goosefoot, Mountain Wanderrie, <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Velvet Hibiscus, Native Tobacco & Long-flowered Tobacco, Tall Copper Burr.

(See Appendix 3 for botanical names)