

Rises

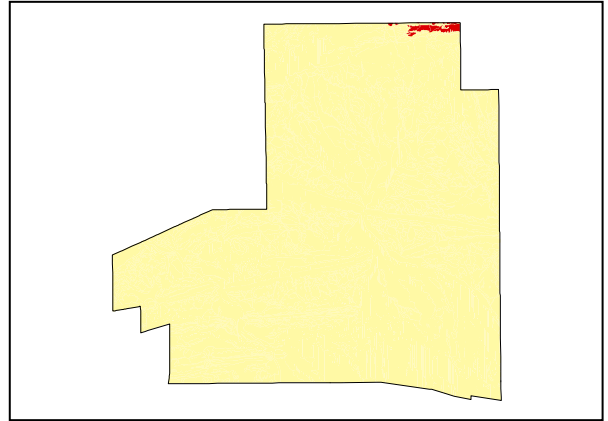
**LAND UNIT 2.11**  
**Migmatite Rises**

**DESCRIPTION:** Rugged outcrops of migmatite / amphibolite rock with Witchetty Bush over sparse grasses and forbs.

**SITE:** 018



**Distribution of land unit.**



Area = 1.19 km<sup>2</sup>, 0.36% of mapped area.

**LAND CAPABILITY:**

ATTRIBUTES	
SLOPE (%)	8
RELIEF (m)	15
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Loose
DEPTH TO SUBSTRATE (m)	0.10
REACTION TREND (pH)	6.5
OUTCROP (%)	85
RUNOFF	Rapid
PERMEABILITY	Highly permeable
DRAINAGE	Well drained
SALINITY (µs/cm)	98.2

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

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

Rises

**TECHNICAL DETAILS****LAND UNIT 2.11**

**DESCRIPTION:** Rugged outcrops of migmatite with Witchetty Bush over sparse grasses and forbs.

**GEOLOGY:** A Late Proterozoic composite of igneous and /or metamorphic rocks. Some areas have high amphibolite minerals with quartz and have a schistose texture.

**LANDFORM:** Large areas of jagged migmatite outcrop punctuate the undulating rises of this land unit. The loamy sand texture of the soil enables rapid permeability and drainage. 8% slope and 80% substrate exposure allow rapid runoff with large (>2.0m) substrate fragments and creep by many floating rock fragments inhibiting the formation of a deep soil profile.

**SOIL:** Example from Site 018  
MGA. Coords: 7385843mN, 387967mE

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

**SURFACE:** 20% >2m large angular boulders of metamorphic rock fragments and 20% 200-600mm angular stones of quartz and metamorphic rocks. 80% of the in situ substrate is exposed of which about 40% are exposed as broken / float fragments.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A1	Loamy sand (LS)	6.5	98.2	Brown (7.5YR4/3). 10% 6-20mm medium gravelly angular quartz and 40% 2-6mm fine angular gravelly quartz fragments. Apedal single incoherent structure.

**VEGETATION:** Site 238 (Albrecht, D. and Pitts, B. 1999).

<b>UPPER STRATUM</b> - Isolated clump of trees	
Dominant species	
Other species	Whitewood, Bloodwood,
<b>MID STRATUM</b> - Isolated shrubs	
Dominant species	Silver Indigo,
Other species	Native Fuchsia, Witchetty Bush, Rock Fuchsia Bush, Dense Cassia, Blunt-leaf Cassia, Mulga, Wild Orange, Long-leaf Corkwood, Tall Saltbush
<b>LOWER STRATUM</b> - Isolated clump of tussock grasses	
Dominant species	
Other species	Wild Hops, Silver Tails, <i>Tephrosia supina</i> , Dwarf Lantern Flower, Boggabi, Cobbler's Pegs, Tar Vine & Yipa, Buffel Grass, Woolly Cloak Fern, Mulga Fern, Black Crumbweed, Tickweed, Cotton Panic Grass, Purplehead Nineawn, Woollyoat Grass, Weeping Emu Bush, Mountain Wanderrie, Tropical Speedwell, Woolly Glycine, Orange Spade Flower, Velvet Hibiscus, Large Green Pusytail, <i>Rostellularia adscendens</i> subsp. <i>adscendens</i> var. <i>latifolia</i> , Wild Tomato, Kangaroo Grass, Cattle Bush, Five-minute Grass, Purple Plumegrass, Supplejack, Hogweed, Mulga, Native Jasmine, Bush Banana, Native Tobacco & Long-flowered Tobacco, Clements Paspalidium, <i>Senna artemisioides</i> subsp. <i>alicia</i> .

(See Appendix 3 for botanical names)