

Rises

LAND UNIT 2.13

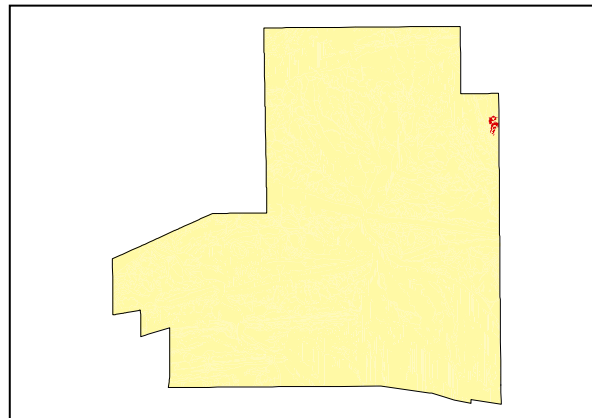
Jessie Gap Gneiss Rises

DESCRIPTION: Low Rises of Jessie Gap Gneiss with sparse trees and Witchetty Bush over annual and perennial grasses.

SITE: 030



Distribution of land unit.



Area = 0.29 km², 0.09% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	30
RELIEF (m)	20
SOIL DEPTH (m)	0.15
SURFACE CONDITION	Loose
DEPTH TO SUBSTRATE (m)	0.15
REACTION TREND (pH)	6.5
OUTCROP (%)	70
RUNOFF	Rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Moderately well drained
SALINITY (µs/cm)	51.1

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

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

Rises

TECHNICAL DETAILS**LAND UNIT 2.13****DESCRIPTION:** Low Rises of Jessie Gap Gneiss.**GEOLOGY:** A wide spread Middle to late Proterozoic granitic gneiss formation that extends from east of Alice Springs to beyond Jessie Gap.**LANDFORM:** The Undulating Rises of this land unit have a generally high relief of 20m with to sides to 30%. There is no evident of stream channels as water flow follows a non-directional path through the larger granitic boulders. Rapid runoff erodes the majority of soil away with minimal soil particle trapped in protected areas between larger stones and boulders. High permeability and rapid drainage are expected given the soil texture characteristics.**SOIL:** Example from **Site 030**
MGA. Coords: 7380469mN, 391607mE.**CLASSIFICATION:** Lithosol. Rudosol - RU, CY, DU, AR, H, K, T**SURFACE:** 20% 200-600mm stony angular gneiss and 50% 60-200mm angular gneiss cobbles. Soil formation is broad and shallow on flatter areas and minimal on maximum slopes.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{S}/\text{cm}$)	OTHER DETAILS
0.00 - 0.15	A1	Clayey sand (CS)	6.5	51.1	Dark brown (7.5YR3/4). 20% 2-6mm fine gravelly angular quartz fragments. 5% 6-20mm medium angular quartz and tabular gneiss fragments. Apedal with single grain incoherent structure.

VEGETATION: **Site 112** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Isolated clump of trees	
Dominant species	
Other species	Whitewood, Bloodwood, Long-leaf Corkwood,
MID STRATUM - Isolated shrubs	
Dominant species	Witchetty Bush,
Other species	Dead Finish, Silver Cassia.
LOWER STRATUM - Isolated clump of tussock grasses	
Dominant species	
Other species	Wild Hops, Bunched Kerosene Grass, Caustic Weed (A), <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Five-minute Grass, Tar Vine & Yipa, Buffel Grass, Woolly Cloak Fern, Cotton Panic Grass, Oatgrass, Woollyoat Grass, Mountain Wanderrie, Tropical Speedwell, Orange Spade Flower, Sticky Indigo, Green Peppergrass, Veined Peppergrass, Silver Tails, Buck Bush, Wild Tomato, Bindieye, Cattle Bush, Dwarf Lantern Flower, Tickweed, Yellow Tails, Tall Saltbush, Tall Copper Burr, Purple Plumegrass.

(See Appendix 3 for botanical names)