

Rises

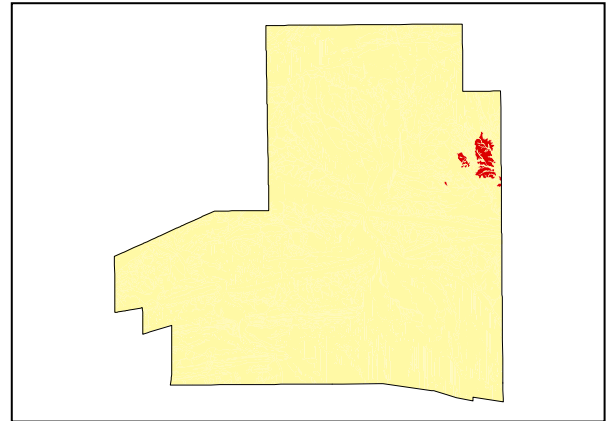
LAND UNIT 2.02

Quartz Rich Sadadeen Range Gneiss Outcrops

DESCRIPTION: Rocky, quartz rich low lying areas of Sadadeen Gneiss with sparse Dead Finish and Witchetty Bush over Kerosene Grass

SITE: 051

Distribution of land unit.



Area = 1.99 km², 0.60% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	5
RELIEF (m)	8 (max)
SOIL DEPTH (m)	0.60
SURFACE CONDITION	Loose
DEPTH TO SUBSTRATE (m)	>0.60
REACTION TREND (pH)	7.0 - 6.0
OUTCROP (%)	85
RUNOFF	Imperfect
PERMEABILITY	Highly
DRAINAGE	Rapid
SALINITY (µs/cm)	41.4 - 1342.0

DEVELOPMENT RISKS	
EROSION	Severe
ROCK FALL	None
SHEET FLOODING	High
INUNDATION	Slight
SALINITY	Severe (at depth)
ALKALINITY	None
ACIDITY	Very Slight

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

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TECHNICAL DETAILS**LAND UNIT 2.02****DESCRIPTION:** Quartz rich, low lying areas of Sadadeen Gneiss.**GEOLOGY:** Broad quartz veining within the Early Proterozoic Sadadeen Range Gneiss. Part of the Hayes Metamorphic Complex, schistose, quartz rich metasediments.**LANDFORM:** Low undulating plains with quartz capped crests usually about 10m wide and up to 100m long. Slopes of about 10% with a relief of 5-8m above the surrounding lower lying areas are typical of this land unit. Runoff is generally rapid, there is moderate to high permeability and the unit is imperfectly drained. Drainage channels are poorly defined due to sheet flow being dominant. An even spread of quartz detrital fragments distributed on the slopes and crests of the unit cover, in part, a quartz substrate. Lower slopes exhibit soil accumulation whilst the quartz crest shows minimal soil development between quartz fragments.**SOIL:** Example from **Site 051**.
MGA. Coords: 7378279mN, 391374mE
Soil development is limited to lower slope areas of the main quartz outcrop.**CLASSIFICATION:** Red Brown Desert Loams. Kandosols KA, AA, AG, CD, B, F, K, M, V**SURFACE:** About 10% 60-200mm Quartz fragments. Quartz substrate exposed <5.0m from sample site. Substrate evident at 0.08m.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 – 0.10	A1	Clayey sand (CS)	7.0	47.3	Dark reddish brown (2.5YR3/4). Apedal with single grains and a sandy fabric, 3% 2-6mm angular quartz fragments. No effervescence.
0.01 – 0.30	A3	Clayey sand (CS)(K)	6.0	42.8	Reddish brown (2.5YR4/4). Apedal with single grains and a sandy fabric, 3% 2-6mm angular quartz fragments. No effervescence.
0.30 – 0.60	B2	Sandy clay loam (SCL)	6.0	50.1	Red (2.5 YR4/6). Massive apedal structure with an earthy fabric. 3% 2-6mm angular quartz fragments. No effervescence.

VEGETATION: **Site 105** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Isolated clump of trees	
Dominant species	
Other species	Whitewood, Bloodwood,
MID STRATUM - Isolated clump of shrubs	
Dominant species	Witchetty Bush,
Other species	Mulga, Dead Finish, Fork-leaved Corkwood, Long-leaf Corkwood, Silver cassia,
LOWER STRATUM - Isolated forbs	
Dominant species	Bunched Kerosene grass,
Other species	Dwarf Lantern Flower, Wild Hops, Pale-leaf Mistletoe, Tar Vine &/or Yipa, Yellow Billybuttons, Buffel Grass, Woolly Cloak Fern, Black Crumbweed, Hill Everlasting, Australian Bindweed, Cotton Panic Grass, Ruby Saltbush, Oatgrass, Woollyoat Grass, Caustic Weed (A), Caustic Weed, Tropical Speedwell, Eight Day Grass, Woolly Yellow-heads, <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Sticky Indigo, Birdsville Indigo, Green Peppercross, Veined Peppercross, Bush Banana, Velvet Hibiscus, Munyeroo, Crimson Foxtail, Tall Saltbush, Grey Wrinklewort, Buckbush, Tall Copper Burr, <i>Sclerolaena costata</i> , Nodding Thread-petal, Downy Thread-petal &/or Narrow Thread-petal, Bindieye, Five-minute Grass, Purple Plumegrass.

(See Appendix 3 for botanical names)