

Mountains, Hills and Ranges

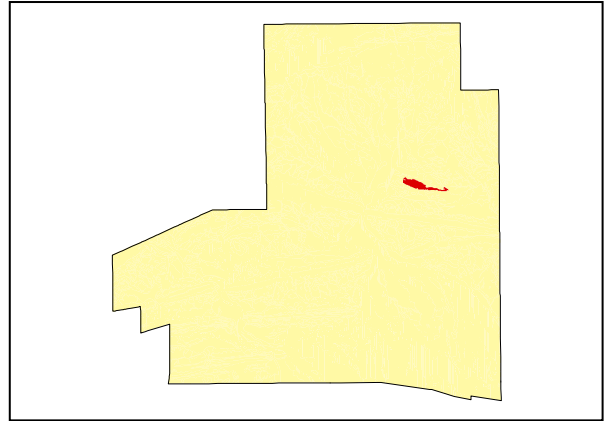
LAND UNIT 1.10

Calc-Silicate Teppa Hill Metamorphic Hills and Ranges

DESCRIPTION: Calc-silicate rocks of the Teppa Hill metamorphic unit with Witchetty Bush and Corkwood over annual grasses.

SITES: 132, 141

Distribution of land unit.



Area = 0.67 km², 0.20% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	45
RELIEF (m)	70
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Loose. Firm in part
DEPTH to SUBSTRATE (m)	0.10
REACTION TREND (pH)	6.5
OUTCROP (%)	85
RUNOFF	Very rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Moderately well drained
SALINITY (µs/cm)	32.6

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

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

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TECHNICAL DETAILS**LAND UNIT 1.10**

DESCRIPTION: Calc-silicate rocks of the Teppa Hill metamorphic unit forming rugged, massive outcrops.

GEOLOGY: The Teppa Hill Metamorphic unit is part of the Early Proterozoic Hayes Metamorphic Complex. The metasediments that make up this unit are fine to coarse grained with a gneissic and schistose texture. The rocks of this land unit differ from those forming land unit 1.09 by the higher levels of calcium bearing silicate minerals and garnet.

LANDFORM: The Rolling Low Hills of the land unit have a relief of about 80m with slopes of 15%. There appears to be no effective disturbance of the site. Moderate permeability would be due to the firm soil surface with thin crusting. Rapid runoff and moderately well draining characteristics are due to the slope and well-laminated nature of the formation.

SOIL: Example from Site **132**.
MGA. Coords: 7376878mN, 388036mE

CLASSIFICATION: Lithosol. Rudosol - RU, CV, CZ, AR, I, L, T

SURFACE: 10% >2.0m large boulders of angular platy schist and 20% 600mm -2m angular platy boulders of schist and slightly weathered schist.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{s/cm}$)	OTHER DETAILS
0.00 - 0.10	A1	Sandy loam (SL)(K)	6.5	32.6	Dark red (2.5YR3/6). 40% 2-6mm fine gravelly angular platy schist and quartz fragments. 10% 6-20mm medium gravelly angular platy schist and quartz fragments. Non-effervescent.

VEGETATION: Site **104** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Isolated clump of trees	
Dominant species	
Other species	Mulga, Witchetty Bush, Dead Finish, Whitewood, Bloodwood.
MID STRATUM - Isolated clump of shrubs	
Dominant species	
Other species	Native Fuchsia, Long-leaf Corkwood.
LOWER STRATUM - Open tussock grassland	
Dominant species	Mountain Wanderrie,
Other species	Wild Hops, Flat-awned Threawn, Buffel Grass, Woolly Cloak Fern, Mulga Fern, Mulga Fern, <i>Chrysocephalum semicalvum</i> , Cotton Panic Grass, Woollyoat Grass, Desert Spurge, <i>Heliotropium</i> sp. (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), <i>Indigofera leucotricha</i> , Green Peppergrass, Low Bluebush, Natal Red Top, Striped Mintbush, Large Green Pussytail, <i>Ptilotus schwartzii</i> var. <i>schwartzii</i> forma <i>schwartzii</i> , <i>Rhagodia eremaea</i> , Tall Copper Burr, Blunt-leaf Cassia, Potato Bush, Hill Thread-petal, Kangaroo Grass.

(See Appendix 3 for botanical names)