

Slopes

LAND UNIT 3.12

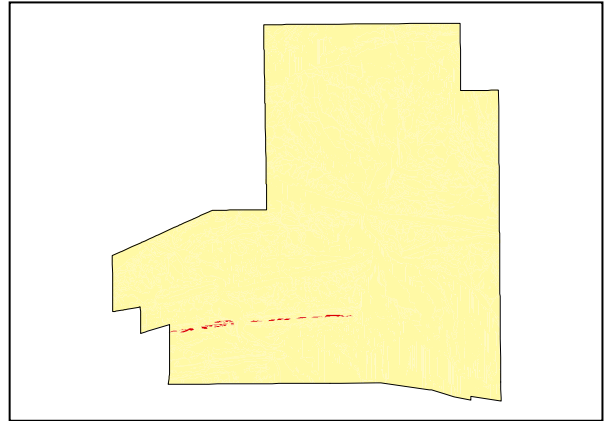
Interbedded SST/SLST Upper Wash Slope

DESCRIPTION: Interbedded sandstone and siltstone upper (1--38%) colluvial wash slope with low Fuchsia Bush over sparse forbs.

SITE: 110



Distribution of land unit.



Area = 0.55 km², 0.17% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	26
RELIEF (m)	60
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Cryptogram. Loose in part.
DEPTH TO SUBSTRATE (m)	0.10
REACTION TREND (pH)	7.0
OUTCROP (%)	10
RUNOFF	Very rapid
PERMEABILITY	Slowly permeable
DRAINAGE	Well drained
SALINITY (µs/cm)	15.1

DEVELOPMENT RISKS	
EROSION	Moderate
ROCK FALL	None
SHEET FLOODING	None
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

Slopes

TECHNICAL DETAILS**LAND UNIT 3.12**

DESCRIPTION: Interbedded sandstone and siltstone upper (10-38%) colluvial wash slope with low Fuchsia Bush over sparse forbs.

GEOLOGY: Loose Quaternary rubble comprising Late Proterozoic to Early Cambrian sandstone and siltstone of the Pertaoorra Group - Arumbera Sandstone unit.

LANDFORM: The continual erosion of the upper sandstone and siltstone ridges forms the steep slopes of this unit. The evidence of a cryptogam surface indicates that this landform is relatively stable however, areas disturbed by mechanical or natural elements appear to develop rapidly into erosional channels. Natural, rapid runoff of this landform would normally follow a sheet flow pattern. The clayey characteristics of the soil combined with the shallow depth to substrate would restrict permeability but allow moderate drainage to occur.

SOIL: Example from **Site 110**
MGA. Coordinates: 7369712mN, 383156mE.

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

SURFACE: 70% 60-200mm angular cobbles of sandstone and 30% 20-60mm coarse subangular sandstone gravel are typical of substrate material. Soil profile formation is minimal with coarse fragments dominating the profile to substrate depth.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{s/cm}$)	OTHER DETAILS
0.00 - 0.10	A1	Clayey sand (CS)	7.0	15.1	Reddish brown (5YR4/4). 20% 6-20mm subrounded sandstone fragments including about 5% angular quartz fragments with 30% 20-60mm coarse subangular sandstone gravel. A loose, apedal structure is present soil development formed as infill between coarse fragments. Non effervescent.

VEGETATION: **Site 97** (Albrecht, D. & Pitts, B. 1999).

UPPER STRATUM - Usually absent	
Dominant species	
Other species	Whitewood, Mulga
MID STRATUM - Isolated shrubs	
Dominant species	Rock Fuchsia Bush,
Other species	Native Fuchsia, Tall Saltbush
LOWER STRATUM - Isolated clump of tussock grasses	
Dominant species	Silky Copper Burr
Other species	Woollyoat Grass, Green Peppergrass, Veined Peppergrass, <i>Maireana integra</i> , Red Spinach, Bunched Kerosene Grass, Bladder saltbush, Bogan Flea, Buffel Grass, Woolly Cloak Fern, <i>Dipteracanthus australasicus</i> , Tropical Speedwell, Large Green Pusstail, White Paper Daisy, Buck Bush, <i>Senna artemisioides subsp. alicia</i> , Silver Sida, <i>Tephrosia supina</i> , Small Burr-grass, Bindieye, Five-minute Grass, Dwarf Lantern Flower, Leafy Burr Daisy, <i>Dichromochlamys dentatifolia</i> , <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Sticky Indigo, Three-wing Bluebush, Tall Copper Burr, Purple Plumegrass.

(see Appendix 3 for botanical names)