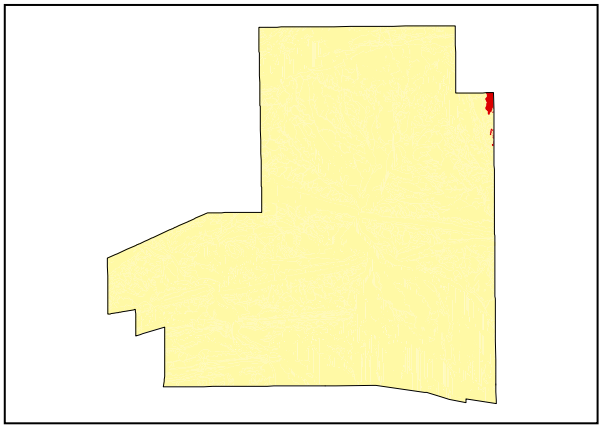
LAND UNIT 1.13

Jessie Gap Gneiss Hills

DESCRIPTION: Rugged Outcrops of Jessie Gap Gneiss with Witchetty Bush and Corkwood over Silver Indigo and occasional annual and perennial grasses.

SITE: **028**

Distribution of land unit



Area = 0.54 km^2, 0.16% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	70
RELIEF (m)	80
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Loose
DEPTH to SUBSTRATE (m)	0.10
REACTION TREND (pH)	6.5
OUTCROP (%)	95
RUNOFF	Very Rapid
PERMEABILITY	Highly permeable
DRAINAGE	Rapidly drained
SALINITY (µs/cm)	47.3

DEVELOPMENT RISKS	
EROSION	Slight
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

TECHNICAL DETAILS LAND UNIT 1.13

DESCRIPTION: Rugged Hills and Ranges of Jessie Gap Gneiss.

GEOLOGY: A wide spread Middle to late Proterozoic granitic gneiss formation that extends to the east of Alice Springs to beyond Jessie Gap.

LANDFORM: The Very Steep Hills, with smooth rounded crests, have a generally high relief of 80m with steep sides to about 70%. Individual hills show little evidence of stream channel formation as water flow follows a non-directional path through the larger, tabular, granitic boulders and subrounded tors. A well-developed integrated channel network exists between individual hills and flows to a common creek.

SOIL: Example from **Site 028**
Soil formation is minimal and restricted to small areas protected from continual erosion and wash of material downslope.
MGA. Coords: 7381620mN, 392039mE

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

SURFACE: 2% >2m subrounded tabular large boulders of granite gneiss and 70% 600-2m subrounded tabular boulders of granite gneiss. The finer faction is predominantly quartz, feldspars and biotite mica derived from the substrate.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A1	Clayey sand (CS)	6.5	47.3	Dark brown (7.5YR3/4). 25% 2-6mm subangular fine gravelly quartz fragments. 10% 6-20mm subangular medium gravelly quartz, gneiss and biotite fragments.

VEGETATION: **Site 109** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Isolated trees	
Dominant species	
Other species	Ironwood, Whitewood,
MID STRATUM - Isolated shrubs	
Dominant species	Witchetty Bush, Silver Cassia,
Other species	Mulga, Dead Finish, Native Fuchsia, Long-leaf Corkwood, Dense Cassia, Blunt-leaf Cassia,
LOWER STRATUM - Sparse heath	
Dominant species	Silver Indigo, Wild Hops
Other species	Dwarf Lantern Flower, Bunched Kerosene Grass, Wire-leaf Mistletoe, Tar Vine & Yipa, Buffel Grass, Woolly Cloak Fern, Black Crumbweed, Tickweed, Cotton Panic Grass, Ruby Saltbush, Woollyoat Grass, Weeping Emu Bush, Mountain Wanderrie, Caustic Weed (A), Tropical Speedwell, *Heliotropium sp. (*one or both of *H.cunninghamii & H.tanythrix*, Orange Spade Flower, Birdsville Indigo, Green Peppercress, Low Bluebush, Bush Banana, Velvet Hibiscus, Knottybutt Paspalidium, Tall Saltbush, Tall Copper Burr, Wild Tomato, Kangaroo Grass, Bindieye, Cattle Bush, Five-minute Grass

(See Appendix 3 for botanical names)