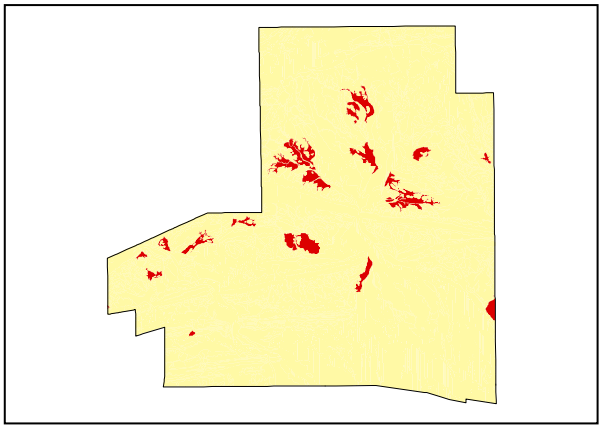
Drainage Features

LAND UNIT 5.08

Broad Drainage Floor

DESCRIPTION: Broad drainage floor (>40.0m wide) with Ironwood over Buffel Grass.
SITES: 055, **062**

Distribution of land unit.



Area = 10.39 km^2, 3.16% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	0.5
RELIEF (m)	1
SOIL DEPTH (m)	>1.32
SURFACE CONDITION	Firm. Surface crust.
DEPTH TO SUBSTRATE (m)	>1.32
REACTION TREND (pH)	6.5 to 9.0
OUTCROP (%)	-
RUNOFF	Slow
PERMEABILITY	Moderately permeable
DRAINAGE	Moderately well drained
SALINITY (µs/cm)	22.3 to 38.2

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

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

Drainage Features

TECHNICAL DETAILS — LAND UNIT 5.08

DESCRIPTION: Broad drainage floor (>40m wide) Ironwood over Buffel Grass.

GEOLOGY: An accumulation of Quaternary, most likely Holocene, sediments eroded and transported from the high relief Proterozoic and Palaeozoic hills and ranges form this land unit.

LANDFORM: This land unit forms a broad drainage plain into which land units 5.06 and 5.07 flow. Water flow is generally via sheet flooding except in areas where erosion channelling has occurred due to disturbance of the surface. A naturally forming divergent channelling system directs water to the sandy river and creek system. These broad drainage floors are generally up to, and in some cases, exceed 40m in width with a very gentle slope to about 3%. Smaller (1-2m wide x 1m deep) dendritic internal drainage channels occur within this land unit.

SOIL: Example from **Site 4, Veg Site V3.** (Grant, R. and Mahney, T. 1992).
Corresponds to **Site 062** (this study).
MGA. Coordinates: 7377565mN, 381645mE

CLASSIFICATION: Desert loam. Kandosol - KA, AA, AH, CD, A, E, L ,O, W

SURFACE: Firm, coherent mass of individual particles or aggregates with occasional loose aggregates that separate when touched. Some areas show surface crusting indicative of sedentary water conditions.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.05	A1	Sandy loam (SL)(F)	6.5	30.8	Yellowish red (5YR4/6). Massive apedal structure with a dry earthy fabric and weak strength.
0.05 - 0.10	A31	Loamy sand (LS)(H)(F)	6.5	35.0	Reddish brown (5YR4/4). Massive apedal structure with a moderately moist earthy fabric and very weak strength.
0.10 - 0.30	A32	Sandy loam (SL)(F)	6.5	24.7	Red (2.5YR4/6). Massive apedal structure with a moderately moist earthy fabric and very weak strength.
0.30 - 0.40	A32	Sandy loam (SL)(H)(F)	7.0	22.3	Reddish brown (2.5YR4/4). Massive apedal structure with a moderately moist earthy fabric and very weak strength.
0.40 - 0.60	B2	Sandy loam (SL)(H)(F)	7.5	25.1	Yellowish red (5YR4/6). Massive apedal structure with a moderately moist earthy fabric and very weak strength.
0.60 - 1.01	B21	Light clay (LC)(F)	8.0	36.1	Red (2.5YR4/6). Massive apedal structure with a dry earthy fabric and very firm strength.
1.01 - 1.30	B22	Clay loam (CL)(S)	9.0	38.2	Dark red (2.5YR3/6). Massive apedal structure with a dry earthy fabric and strong strength.
1.30 - 1.32	B22	Sandy clay loam (SCL)(F)	9.0	33.4	Yellowish red 5YR5/6). Massive apedal structure with a dry earthy fabric and firm strength.

VEGETATION: **Site V3** (Grant, R. and Mahney, T. 1992).

UPPER STRATUM - Isolated trees	
Dominant species	Ironwood
Other species	Ghost Gum, Black Teatree
MID STRATUM - Isolated clump of shrubs	
Dominant species	
Other species	Acacia Bush, Ironwood, Black Teatree, Whitewood, Desert Cassia, Weeping Emu Bush, Colony Wattle, Long-leaf Corkwood, Ghost Gum, Bloodwood
LOWER STRATUM - Open grassland	
Dominant species	Buffel Grass,
Other species	Bogan Flea, Bindieye, Tar Vine, Silkyheads, Couch Grass, Green Peppercress, Curly Windmill Grass, Buckbush, Perennial Yellowtop, Tickweed, Small Yellow Button, Ironwood, Creek Windmill Grass, Annual Saltbush, Tall Copper Burr, Silky Copper Burr, *Sclerolaena costata*, Kangaroo Grass, Bushy Groundsel, Yellow Billybuttons, Tufted Bluebells, Woolly Glycine, Colony Wattle, Munyeroo, Tangled Lechenaultia.

(See Appendix 3 for botanical names)